STIEBEL ELTRON

Programm summary

HOT WATER | RENEWABLES | CENTRAL HEATING

Product Catalogue 2020

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Comfort instantaneous water heater

SELECT comfort instantaneous water heater				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
PER 18/21/24	233990	4017212339909	24	28
PEO 18/21/24	233991	4017212339916	24	29
PEO 27	233992	4017212339923	24	29
PEY 18/21/24	233993	4017212339930	24	30
PEG 13	233994	4017212339947	24	31
PEG 18	233995	4017212339954	24	31
PEG 21	233996	4017212339961	24	31
PEG 24	233997	4017212339978	24	31
PHB 13	233998	4017212339985	24	32
PHB 18	233999	4017212339992	24	32
PHB 21	234000	4017212340004	24	32
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Comfort instantaneous water heaters with full electronic control				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
DHE 18/21/24	202656	4017212026564	24	33
DHE 27	202657	4017212026571	24	33
Electronically controlled comfort instantaneous water heaters				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
DEL 18/21/24 Plus	236739	4017212367391	24	34
DEL 27 Plus	236740	4017212367407	24	34
DHB-E 11/13 LCD	236743	4017212367438	24	35
DHB-E 18 LCD 25A	236744	4017212367445	24	35
DHB-E 18/21/24 LCD	236745	4017212367452	24	35
DHB-E 27 LCD	236746	4017212367469	24	35
FFB 4 Set EU	238930	4017212344781	100	36
FFB 4	234478	4017212389300	97	36
Electronically controlled comfort instantaneous water heaters				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
HDB-E 12 Si	232003	4017212320037	24	37
HDB-E 18 Si	232004	4017212320044	24	37
HDB-E 21 Si	232005	4017212320051	24	37
HDB-E 24 Si	232006	4017212320068	24	37
Special taps for comfort instantaneous water heater				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
MEKD	232613	4017212326138	90	38
MEBD	232614	4017212326145	90	38
Accessories for comfort instantaneous water heater				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
LR-1-A	001786	4017210017861	100	39
ZTA ¾	073864	4017210738643	200	39

Compact instantaneous water heater

Electronically controlled compact instantaneous water heaters				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
DCE 11/13 compact RC	230771	4017212307717	36	40
DCE 11/13	230770	4017212307700	36	40
DCE 11/13 H	232792	4017212327920	36	42
DCE 11/13 H + MEKD	232794	4017212327944	30	43
DCE-X 6/8 Premium	238158	4017212381588	78	44
DCE-X 10/12 Premium	238159	4017212381595	78	44
DCE-S 6/8 Plus	238153	4017212381533	78	46
DCE-S 10/12 Plus	238154	4017212381540	78	46
DCE-C 6/8 Trend	238148	4017212381489	78	47
DCE-C 10/12 Trend	238149	4017212381496	78	47
DHC-E 8/10	224201	94922058454	78	48
DHC-E 12	230628	94922058461	78	48

Hydraulically controlled compact instantaneous water heaters				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
DHF 12 C1	182137	4017211821375	24	49
DHF 13 C	074301	4017210743012	24	49
DHF 13 C3	185708	4017211857084	24	49
DHF 15 C	074302	4017210743029	24	49
DHF 18 C	074303	4017210743036	24	49
DHF 21 C	074304	4017210743043	24	49
DHF 24 C	074305	4017210743050	24	49
DHC 4	073715	4017210737158	30	50
DHC 6	073480	4017210734805	30	50
DHC 6 U	073479	4017210734799	30	50
DHC 8	073481	4017210734812	30	50
DHA 4/8 L	073716	4017210737165	30	50
Taps for compact instantaneous water heater				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
MEKD	232613	4017212326138	90	51
Accessories for compact instantaneous water heater				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
LRH 11/13.1	233048	4017212330487	40	51
LR-1-A	001786	4017210017861	100	51

Mini instantaneous water heater

SELECT mini instantaneous water heater				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
EIL 3 Premium	200134	4017212001349	40	52
EIL 4 Premium	200135	4017212001356	40	52
EIL 6 Premium	200136	4017212001363	40	52
EIL 7 Premium	200137	4017212001370	40	52
EIL 3 Plus	200138	4017212001387	40	54
EIL 4 Plus	200139	4017212001394	40	54
EIL 6 PLus	200140	4017212001400	40	54
EIL 7 Plus	200141	4017212001417	40	54
EIL 3 Trend	200142	4017212001424	40	55
EIL 4 Trend	200143	4017212001431	40	55
EIL 6 Trend	200144	4017212001448	40	55
EIL 3 Trend + OT	200145	4017212001455	30	56
EIL 3 Trend + UT	200146	4017212001462	30	56
EIL 3 Trend + UTE	200147	4017212001479	30	56
EIL 4 Trend + OT	201409	4017212014097	30	56
EIL 4 Trend + UT	201410	4017212014103	30	56
EIL 4 Trend + UTE	201411	4017212014110	30	56
Taps for open mini instantaneous water heaters				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
MEW	232612	4017212326121	60	57
MEWC	232741	4017212327418	38	57
WST	232620	4017212326206	120	57

Tempra instantaneous water heater

Instantaneous water heaters with full electronic control				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
Tempra 12 Plus	239219	40232668586		58
Tempra 15 Plus	239220	40232668593		58
Tempra 20 Plus	239221	40232668609		58
Tempra 24 Plus	239222	40232668616		58
Tempra 29 Plus	239223	40232668623		58
Tempra 36 Plus	239225	40232668630		58

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Electronically regulated instantaneous water heaters				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
Tempra 12 Trend	239213	40232668524	36	59
Tempra 15 Trend	239214	40232668531		59
Tempra 20 Trend	239215	40232668548		59
Tempra 24 Trend	239216	40232668555		59
Tempra 29 Trend	239217	40232668562		59
Tempra 36 Trend	239218	40232668579		59

Water boilers

Water boilers, 5 litre				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
EBK 5 G	074286	4017210742862	16	60
EBK 5 GA	074287	4017210742879	16	61
EBK 5 K	074288	4017210742886	16	61
KBA 5 KA	074289	4017210742893	16	62

Small water heater

Small water heater, 5 to 10 litres, undersink, non-pressurised				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
SNU 5 SLi	221121	4017212211212	49	63
SNU 10 SLi	222199	4017212221990	25	63
ESH 5 U-N Trend	201386	4017212013861	24	64
ESH 5 U-N Trend +A	201387	4017212013878	18	64
ESH 10 U-N Trend	201391	4017212013915	18	65
ESH 10 U-N Trend +A	201392	4017212013922	18	65
Small water heater, 5 to 15 litres, oversink, non-pressurised				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
SN 5 SLi	221127	4017212211274	49	66
SN 10 SLi	222193	4017212221938	25	66
ESH 5 O-N Trend	201388	4017212013885	24	67
ESH 5 O-N Trend +A	201389	4017212013892	18	67
ESH 10 O-N Trend	201393	4017212013939	18	68
ESH 10 O-N Trend +A	201395	4017212013953	18	68
Taps for non-pressurised small water heaters, undersink				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
WST	232620	4017212326206	120	69
WUT	232604	4017212326046	120	69
MEW	232612	4017212326121	60	69
MEWC	232741	4017212327418	38	69
MES	232611	4017212326114	50	69
Taps for non-pressurised cylinders, oversink				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
WKM	232605	4017212326053	140	70
WDM	232606	4017212326060	90	70
MEK	232608	4017212326084	95	70
MED	232609	4017212326091	90	70
Accessories for taps/valves				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
Connection pipe 500 mm	006629	4017210066296		70
U heavy	000734	4017210007343	100	70
Small water heater, 5 to 10 litres, undersink, pressure-tested				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
SHU 5 SLi	222151	4017212221518	36	71
SHU 10 SLi	229473	4017212294734	15	71
SHC 10	233747	4017212337479	24	72
SHC 15	234337	4017212343371	20	72
SHC 10 GB Eltron	235232	4017212352328	24	72
SHC 15 GB Eltron	234407	4017212344071	20	72
Small water heater, 5 to 10 litres, undersink, pressure-tested				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
SHC 10 AU	235002	4017212350027	24	72
SHC 15 AU	235001	4017212350010	20	72
ESH 10 U-P Plus	201397	4017212013977	18	73
Small water heater, 10 to 15 litres, oversink, pressure-tested				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
SH 10 SLi	229476	4017212294765	15	74
SH 15 SLi	229478	4017212294789	15	74
ESH 10 O-P Plus	201398	4017212013984	18	75
Small water heater, 10 to 15 litres, oversink, pressure-tested				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
SVMT	073499	4017210734997	76	76
Tees	070558	4017210705584	100	76
KV 40	238958	4017212389584	200	76
KV 307	238959	4017212389591	200	77
SRT 2	230764	4017212307649	150	77

Wall mounted cylinder

Wall mounted cylinders 15 to 200 litres				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
SHZ 30 LCD	231251	4017212312513	9	78
SHZ 50 LCD	231252	4017212312520	6	78
SHZ 80 LCD	231253	4017212312537	6	78
SHZ 100 LCD	231254	4017212312544	6	78
SHZ 120 LCD	231255	4017212312551	6	78
SHZ 150 LCD	231256	4017212312568	6	78
SH 30 S	073047	4017210730470	9	79
SH 50 S	073048	4017210730487	6	79
SH 80 S	073049	4017210730494	6	79
SH 100 S	073050	4017210730500	6	79
SH 120 S	073051	4017210730517	6	79
SH 150 S	073052	4017210730524	6	79
PSH 30 Universal EL	231150	4017212311509	8	80
PSH 50 Universal EL	231151	4017212311516	8	80
PSH 80 Universal EL	231152	4017212311523	8	80
PSH 100 Universal EL	231153	4017212311530	4	80
PSH 120 Universal EL	231649	4017212316498	4	80
PSH 150 Universal EL	231154	4017212311547	4	80
PSH 30 Trend	232080	4017212320808	8	81
PSH 50 Trend	232081	4017212320815	8	81
PSH 80 Trend	232082	4017212320822	8	81
PSH 100 Trend	232083	4017212320839	4	81
PSH 120 Trend	232084	4017212320846	4	81
PSH 150 Trend	232085	4017212320853	4	81
PSH 200 Trend	232086	4017212320860	4	81
PSH 50 Classic	235960	4017212359600	8	82
PSH 80 Classic	235961	4017212359617	4	82
PSH 100 Classic	235962	4017212359624	4	82
PSH 120 Classic	235963	4017212359631	4	82
PSH 150 Classic	235964	4017212359648	4	82
PSH 200 Classic	235965	4017212359655	4	82
Instantaneous water heating cylinder				
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SHD 30 S	073059	4017210730593	9	83
SHD 100 S	073060	4017210730609	6	83

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Wall mounted DHW cylinder with DHW heat pump				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
LWA 100	221470	4017212214701		84
Safety assemblies for wall mounted cylinder				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
KV 30	238957	4017212389577	200	85
KV 40	238958	4017212389584	200	85
SRT 2	230764	4017212307649	150	85
SV EX ½	073945	4017210739459	500	85
SV EX ¾	073946	4017210739466	800	85
Accessories for wall mounted water heaters				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
Hood KV	074143	4017210741438	15	86
Fittings for wall cylinders, non-pressurised operation				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
WKM	232605	4017212326053	140	87
WDM	232606	4017212326060	90	87
WBM	232607	4017212326077	90	87
MEK	232608	4017212326084	95	87
MED	232609	4017212326091	90	87
MEB	232610	4017212326107	90	87
Wall mounted cylinder with indirect coil				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
PSH 80 WE-L	236230	4017212362303		88
PSH 80 WE-R	236231	4017212362310		88
PSH 120 WE-L	236232	4017212362327		88
PSH 120 WE-R	236233	4017212362334		88
PSH 150 WE-L	236234	4017212362341		88
PSH 150 WE-R	236235	4017212362358		88
PSH 200 WE-L	236236	4017212362365		88
PSH 200 WE-R	236237	4017212362372		88
PSH 80 WE-H	236238	4017212362389		88
PSH 120 WE-H	236239	4017212362396		88
PSH 150 WE-H	236240	4017212362402		88
PSH 200 WE-H	236241	4017212362419	4	88
PSH 80 W-L	236242	4017212362426		89
PSH 80 W-R	236243	4017212362433		89
PSH 120 W-L	236244	4017212362440		89
PSH 120 W-R	236245	4017212362457		89

Freestanding cylinder

Freestanding DHW cylinder 200 to 1000 litres				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
SHW 200 S	182120	4017211821207	1	90
SHW 300 S	182121	4017211821214	1	90
SHW 400 S	182122	4017211821221	1	90
SHW 200 ACE	070074	4017210700749	1	91
SHW 300 ACE	070075	4017210700756	1	91
SHW 400 ACE	070076	4017210700763	1	91
SHO AC 600 7,5	001414	4017210014143	1	92
SHO AC 600 6/12	003352	4017210033526	1	92
SHO AC 1000 12	001415	4017210014150	1	92
SHO AC 1000 9/18	003353	4017210033533	1	92
Freestanding combi cylinder 300 to 1000 litres				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
SB 302 S	185354	4017211853543	1	93
SB 402 S	185355	4017211853550	1	93
SB 602 AC	071554	4017210715545	1	93
SB 1002 AC	071282	4017210712827	1	93

Flanged immersion heaters				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
FCR 21/60	071330	4017210713305	12	94
FCR 21/120	071331	4017210713312	12	94
FCR 28/120	000694	4017210006940	12	94
FCR 28/180	000695	4017210006957	12	94
FCR 28/270	000696	4017210006964	12	94
FCR 28/360	001502	4017210015027	12	94
FCR 28/120	071332	4017210713329	12	94
FCR 28/120 CrNi	234503	4017212345030	12	94
FCR 28/180	071333	4017210713336	12	94
FCR 28/120 Si	075140	4017210751406	9	95
FCR 28/180 Si	075131	4017210751314	12	95
FCR 28/270 Si	075141	4017210751413	12	95
FCR 28/360 Si	075124	4017210751246	5	95
BGC/45	075115	4017210751154	50	95
BGC	003769	4017210037692	50	96
BGC 2/60	232030	4017212320303	50	96
B 21	076102	4017210761023	40	96
B 28	076103	4017210761030	20	96
Safety assemblies for freestanding cylinder				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
ZH 1	074370	4017210743708	100	97
DMV / ZH 1	074371	4017210743715	200	97
SV ½-6	074373	4017210743739	100	97
SV ¾-6	074374	4017210743746	100	97
SV ¾-10	074375	4017210743753	50	97
Accessories for floorstanding cylinders				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
WDS 600	236077	4017212360774	1	98
WDS 1000	236078	4017212360781	1	98
WDS 602	236079	4017212360798	1	98
WDS 1002	236080	4017212360804	1	98
Replacement anode ¾	143498	4017211434988	6	99
Replacement anode 1 ¼	143499	4017211434995		99

Heat pumps

Inverter air	water heat pumps			
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
HPA-O 7 S Premium	238976	4017212389768	1	105
HPA-O 7 CS Premium	238977	4017212389775	1	105
HPA-O 10 Premium	238978	4017212389782	1	105
HPA-O 10 C Premium	238979	4017212389799	1	105
HPA-O 13 S Premium	238980	4017212389805	1	105
HPA-O 13 CS Premium	238981	4017212389812	1	105
HPA-O 13 Premium	238982	4017212389829	1	105
HPA-O 13 C Premium	238983	4017212389836	1	105
AS-WP 1	233622	4017212336229	29	107
AS-WP 2	233623	4017212336236	25	107
WK 2	234722	4017212347225		107
SK 1	232964	4017212329641	10	107
HPA-O 3 CS Plus	238984	4017212389843	1	108
HPA-O 4 CS Plus	238985	4017212389850	1	108
HPA-O 6 CS Plus	238986	4017212389867	1	108
HPA-O 8 CS Plus	238987	4017212389874	1	108
HPA-O 3 CS Plus flex Set S	238988	4017212389881		109
HPA-O 4 CS Plus flex Set S	238989	4017212389898		109
HPA-O 6 CS Plus flex Set S	238990	4017212389904		109

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Inverter air	water heat pumps				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
HPA-O 8 CS Plus flex Set S	238991	4017212389911		109
HPA-O 3 CS Plus flex Set	239051	4017212390511		109
HPA-O 4 CS Plus flex Set	239052	4017212390528		109
HPA-O 6 CS Plus flex Set	239053	4017212390535		109
HPA-O 8 CS Plus flex Set	239054	4017212390542		109
HPA-O 3 CS Plus compact Set S	238992	4017212389928		109
HPA-O 4 CS Plus compact Set S	238993	4017212389935		109
HPA-O 6 CS Plus compact Set S	238994	4017212389942		109
HPA-O 8 CS Plus compact Set S	238995	4017212389959		109
HPA-O 3 CS Plus compact Set	239055	4017212390559		109
HPA-O 4 CS Plus compact Set	239056	4017212390566		109
HPA-O 6 CS Plus compact Set	239057	4017212390573		109
HPA-O 8 CS Plus compact Set	239058	4017212390580		109
HPA-O 3 CS Plus compact D Set S	238996	4017212389966		109
HPA-O 4 CS Plus compact D Set S	238997	4017212389973		109
HPA-O 6 CS Plus compact D Set S	238998	4017212389980		109
HPA-O 8 CS Plus compact D Set S	238999	4017212389997		109
HPA-O 3 CS Plus compact D Set	239059	4017212390597		109
HPA-O 4 CS Plus compact D Set	239060	4017212390603		109
HPA-O 6 CS Plus compact D Set	239061	4017212390610		109
HPA-O 8 CS Plus compact D Set	239062	4017212390627		109
WK 1.1	238686	4017212386866		110
SK 2	236693	4017212366936	28	110
**Inverter air	water heat pumps**				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
WPL 09 ICS classic	236375	4017212363751	1	111
WPL 17 ICS classic	236376	4017212363768	1	111
WPL 09 IKCS classic	236377	4017212363775	1	111
WPL 17 IKCS classic	236378	4017212363782	1	111
WPL 09 ICS classic comfort set	236730	4017212367308		112
WPL 17 ICS classic comfort set	236731	4017212367315		112
WPL 09 IKCS classic comfort set	236734	4017212367346		112
WPL 17 IKCS classic comfort set	236735	4017212367353		112
WPL 09 ICS classic compact plus set	236728	4017212367285		112
WPL 17 ICS classic compact plus set	236729	4017212367292		112
WPL 09 IKCS classic compact plus set	236732	4017212367322		112
WPL 17 IKCS classic compact plus set	236733	4017212367339		112
LSWP 315-0.7 S AWG SR set	236930	4017212369302		113
LSWP 315-2 S AWG SR set	236931	4017212369319		113
LSWP 315-3 S AWG SR set	236932	4017212369326		113
LSWP 315-4 S AWG SR set	236933	4017212369333		113
LSWP 315-0.7 S AWG GL set	237762	4017212377628		113
LSWP 315-2 S AWG GL set	237763	4017212377635		113
LSWP 315-3 S AWG GL set	237764	4017212377642		113
LSWP 315-4 S AWG GL set	237766	4017212377666		113
LSWP 315-0.7 S AWG L set	237758	4017212377581		113
LSWP 315-2 S AWG L set	237759	4017212377598		113
LSWP 315-3 S AWG L set	237760	4017212377604		113
LSWP 315-4 S AWG L set	237761	4017212377611		113
ZSA 315	236934	4017212369340	45	113
WPL 19 A	236412	4017212364123		114
WPL 24 A	236413	4017212364130		114
WPL 19 I	235193	4017212351932		115
WPL 24 I	235194	4017212351949		115
WPL 19 IK	235878	4017212358788		115

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WPL 24 IK	235879	4017212358795		115
WPL 33 HT	229938	4017212299388	1	116
ZVK-WPL 33 HT I	230206	4017212302064	1	116
ZVK-WPL 33 HT A	230207	4017212302071	1	116
ZVK-WPL 33 HT A SR	232021	4017212320211	1	116
**Air	Water heat pumps**				
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WPL 13 E	227756	4017212277560	1	117
WPL 18 E	227757	4017212277577	1	117
WPL 23 E	227758	4017212277584	1	117
WPL 13 cool	223400	4017212234006	1	118
WPL 18 cool	223401	4017212234013	1	118
WPL 23 cool	223402	4017212234020	1	118
WPL 47	228836	4017212288368		119
WPL 57	228837	4017212288375		119
**Accessories Air	Water heat pumps**				
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HM	233010	4017212330104	2	120
HM Trend	232805	4017212328057	2	121
HMS	233827	4017212338278		121
HMS Trend	233826	4017212338261	2	121
ASL-HM	232806	4017212328064	15	121
AS-HM Trend	233750	4017212337509	80	121
HSBC 300 cool	236686	4017212366868	1	122
HSBC 300 L cool	238826	4017212388266	1	123
RBS-SBC	238827	4017212388273	10	123
HSBC 200	233510	4017212335109	1	124
HSBC 200 S	234801	4017212348017	1	124
HSBC 200 L	236684	4017212366844	1	125
HSBC 3-HKM	238825	4017212388259	10	125
HSBC-HKM	234648	4017212346488	10	125
HSBB 200 S	235197	4017212351970	1	126
WPIC 3	235874	4017212358740		127
ZVK-WPL 13/18/23 I	074412	4017210744125	1	127
ZVK-WPL 13/18/23 A	074413	4017210744132	1	127
ZVK-WPL 13/18/23 A SR	231890	4017212318904	1	127
AWG 315 SR	233836	4017212338360		128
AWG 315 GL	232955	4017212329559		128
AWG 315 L	231039	4017212310397		128
AWG 560 H-SR	233837	4017212338377		129
AWG 560 H-GL	232956	4017212329566		129
AWG 560 L	231041	4017212310410		129
AWG 560 V-SR	233838	4017212338384		129
AWG 560 V-GL	232957	4017212329573		129
AWG 600 L	231044	4017212310441		129
LSWP 315-4 S	234646	4017212346464	8	130
LSWP 315-4 SG	201618	4017212016183	8	130
LSWP 560-3 SG	201721	4017212017210	2	130
LSWP 560-4 S	234647	4017212346471	2	130
LSWP 560-4 SG	201619	4017212016190	2	130
LLB AWG 315 L	232341	4017212323410	54	130
LLB AWG 560 L	232342	4017212323427	25	130
Hose connection plate DN 560	003478	4017210034783	10	130
LWF SF 315-1	170018	4017211700182	8	130
PK 10	229286	4017212292860	68	131

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HZB-1	232978	4017212329788	100	131
HZB-2	232979	4017212329795	100	131
KSD 1	185325	4017211853253	1	131
KSD 2	185370	4017211853703	1	131
Inverter ground source heat pumps				
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WPE-I 33 H 400 Premium	201412	4017212014127	1	134
WPE-I 44 H 400 Premium	201413	4017212014134	1	134
WPE-I 59 H 400 Premium	201414	4017212014141	1	134
WPE-I 87 H 400 Premium	201415	4017212014158	1	134
EM WPE-I 33-87	201715	4017212017159	70	135
HG set WPE-I 33-87	201716	4017212017166	24	135
FE WPE-I 33-87	201767	4017212017678	220	135
SD 32-0.6 G	201710	4017212017104	90	135
SD 40-0.8 G	201711	4017212017111	90	135
SDB 40-0.8 G	201713	4017212017135	90	135
SDB 50-0.8 G	201714	4017212017142	90	135
**Brine	Water heat pumps**			
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WPC 04	232926	4017212329269	1	136
WPC 05	232927	4017212329276	1	136
WPC 07	232928	4017212329283	1	136
WPC 10	232929	4017212329290	1	136
WPC 13	232930	4017212329306	1	136
WPC 04 cool	232931	4017212329313	1	136
WPC 05 cool	232932	4017212329320	1	136
WPC 07 cool	232933	4017212329337	1	136
WPC 10 cool	232934	4017212329344	1	136
WPC 13 cool	232935	4017212329351	1	136
WPC 05 S	232937	4017212329375	1	137
WPC 07 S	232938	4017212329382	1	137
WPC 10 S	232939	4017212329399	1	137
WPC 13 S	232940	4017212329405	1	137
WPF 04	232909	4017212329092	1	138
WPF 05	232910	4017212329108	1	138
WPF 07	232911	4017212329115	1	138
WPF 10	232912	4017212329122	1	138
WPF 13	232913	4017212329139	1	138
WPF 16	232914	4017212329146	1	138
WPF 04 cool	232915	4017212329153	1	138
WPF 05 cool	232916	4017212329160	1	138
WPF 07 cool	232917	4017212329177	1	138
WPF 10 cool	232918	4017212329184	1	138
WPF 13 cool	232919	4017212329191	1	138
WPF 16 cool	232920	4017212329207	1	138
WPF 05 S	232922	4017212329221	1	139
WPF 07 S	232923	4017212329238	1	139
WPF 10 S	232924	4017212329245	1	139
WPF 13 S	232925	4017212329252	1	139
WPF 10 M	185349	4017211853499	1	140
WPF 13 M	182135	4017211821351	1	140
WPF 16 M	220894	4017212208946	1	140
WPF 20 Set	185365	4017211853659		141
WPF 23 Set	185366	4017211853666		141
WPF 26 Set	182139	4017211821399		141

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WPF 29 Set	220896	4017212208960		141
WPF 32 Set	220897	4017212208977		141
WPF 20	233003	4017212330036		142
WPF 27	233004	4017212330043		142
WPF 35	233005	4017212330050		142
WPF 40	233006	4017212330067		142
WPF 52	233007	4017212330074		142
WPF 66	233008	4017212330081		142
WPF 27 HT	233009	4017212330098		143
**Accessories Brine	Water heat pumps**			
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GWS 1	230659	4017212306598	5	146
GWS 2	230660	4017212306604	5	146
WPSV 25-4	232460	4017212324608	20	146
WPSV 25-6	232461	4017212324615	10	146
WPSV 32-4	232462	4017212324622	10	146
WPSV 32-6	232463	4017212324639	10	146
WPSV 40-4	232464	4017212324646	20	146
WPSV 40-6	232465	4017212324653	10	146
WPSB 308 E	222375	4017212223758		146
WPSB 312 E	232883	4017212328835		146
WPSB 408 E	232884	4017212328842		146
WPSF	233307	4017212333075	30	146
WPAB 25	220833	4017212208335	100	147
WPAB 32	232412	4017212324127	160	147
UPF 30/1-8 E	232532	4017212325322		147
UPF 30/1-12 E	235053	4017212350539		147
UPF 40/1-8 E	227413	4017212274132		147
UPF 50/1-12 E	227414	4017212274149		147
DWS1	221382	4017212213827	100	147
MAG 12	235218	4017212352182	60	147
MAG 18	235219	4017212352199	56	147
MAG 25	235220	4017212352205	42	147
MAG 50	235221	4017212352212	16	147
MEG 10	231109	4017212311097	60	147
MEG 30	161696	4017211616964	16	147
Heat pump controllers				
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WPM International	236000	4017212360002		148
WPE	234725	4017212347256	28	148
FET	234723	4017212347232	180	148
FE 7	185579	4017211855790	400	148
TAF PT 5m	235995	4017212359952	700	149
TAF PT 2m	235996	4017212359969	3000	149
AF PT	235997	4017212359976	1500	149
WPM-RBS	230381	4017212303818	100	149
FE 7	185579	4017211855790	400	149
FEK 2	200168	4017212001684	180	149
AVF 6	165341	4017211653419	500	150
TF 6 immersion sensor	165342	4017211653426	500	150
Outside temperature sensor AFS 2	165339	4017211653396	10	150
ISG web	229336	4017212293362	100	150
SP cool	223358	4017212233580	60	150

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SBBE 302 WP	234349	4017212343494	1	151
SBBE 401 WP SOL	234350	4017212343500	1	151
SBBE 501 WP SOL	234351	4017212343517	1	151
RBS 301	234515	4017212345153	5	152
RBS 302	234516	4017212345160	8	152
RBS 401	234511	4017212345115	6	152
RBS 401.2	234512	4017212345122	5	152
RBS 501	234513	4017212345139	5	152
RBS 501.2	234514	4017212345146	5	152
SBB 300-1 Plus	202487	4017212024874		153
SBB 400-1 Plus	202488	4017212024881		153
SBB 500-1 Plus	202489	4017212024898		153
SBB 301 WP	221360	4017212213605	1	154
SBB 302 WP	221361	4017212213612	1	154
SBB 401 WP SOL	221362	4017212213629	1	154
SBB 501 WP SOL	227534	4017212275344	1	154
WRV 32	232628	4017212326282	100	154
SB-VTI 100	200156	4017212001561		155
SB-VTI 150	200157	4017212001578		155
SB-VTI 200	200158	4017212001585		155
SB-VTI 300	200159	4017212001592		155
SB-VTI 400	200160	4017212001608		155
SB-VTI 500	200161	4017212001615		155
SB-VTH 100	200153	4017212001530		155
SB-VTH 120	200154	4017212001547		155
SB-VTH 150	200155	4017212001554		155
HSBC 300 cool	236686	4017212366868	1	156
HSBC 300 L cool	238826	4017212388266	1	157
RBS-SBC	238827	4017212388273	10	157
HSBC 200	233510	4017212335109	1	158
HSBC 200 S	234801	4017212348017	1	158
HSBC 200 L	236684	4017212366844	1	159
HSBC 3-HKM	238825	4017212388259	10	159
HSBC-HKM	234648	4017212346488	10	159
HSBB 200 S	235197	4017212351970	1	160
SBB 751	229292	4017212292921	1	161
SBB 751 SOL	229294	4017212292945	1	161
SBB 1001	229293	4017212292938	1	161
SBB 1001 SOL	229295	4017212292952	1	161
WDH 751 SBB	231923	4017212319239	1	161
WDH 1001 SBB	231924	4017212319246	1	161
WTS 30 E	232907	4017212329078	4	162
WTS 40 E	232908	4017212329085	3	162
SBB 600 WP SOL	235906	4017212359068	1	162
SBB 800 WP SOL	235907	4017212359075	1	162
SBB 1000 WP SOL	235908	4017212359082	1	162
WDH 600 SBB	235909	4017212359099	1	163
WDH 800 SBB	235910	4017212359105	1	163
WDH 1000 SBB	235911	4017212359112	1	163
WRV 40	232629	4017212326299	50	163
SBS 601 W	229980	4017212299807	1	164
SBS 601 W SOL	229984	4017212299845	1	164
SBS 801 W	229981	4017212299814	1	164
SBS 801 W SOL	229985	4017212299852	1	164

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SBS 1001 W SOL	229986	4017212299869	1	164
SBS 1501 W	229983	4017212299838	1	164
SBS 1501 W SOL	229987	4017212299876	1	164
WDH 601 SBS	231925	4017212319253	1	165
WDH 801 SBS	231926	4017212319260	1	165
WDH 1001 SBS	231927	4017212319277	1	165
WDH 1501 SBS	231928	4017212319284	1	165
UBS-VL	238489	4017212384893	6	165
UBS-RL	238490	4017212384909	6	165
ZW 1 ¼	230312	4017212303122	100	165
UPZ	233719	4017212337196	123	165
UP 25-60 B	056899	4017210568998	48	165
Inlet pipe 200/500 l	072997	4017210729979	20	166
Inlet pipe 600/1000 l	072998	4017210729986	15	166
WT 10	070633	4017210706338	20	166
WT 20	070634	4017210706345	20	166
WT 30	071091	4017210710915	24	166
WT 40	229338	4017212293386	20	166
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SBP 100 classic	235200	4017212352007	1	167
SBP 200 E	185458	4017211854588	1	167
SBP 400 E	220824	4017212208243	1	167
SBP 700 E	185459	4017211854595	1	167
SBP 700 E SOL	185460	4017211854601	1	167
SBPE 400	235199	4017212351994	1	168
SBP 1000 E	227564	4017212275641	1	169
SBP 1010 E	236569	4017212365694	1	169
SBP 1500 E	227565	4017212275658	1	169
SBP 1000 E SOL	227566	4017212275665	1	169
SBP 1500 E SOL	227567	4017212275672	1	169
SBP 1000 E cool	227588	4017212275887	1	170
SBP 1010 E cool	236570	4017212365700	1	170
SBP 1500 E cool	227589	4017212275894	1	170
WDH 1000 SBP	231929	4017212319291	1	170
WDH 1010 SBP	201662	4017212016626		170
WDH 1500 SBP	231930	4017212319307	1	170
WDH 1000 cool	231921	4017212319215	1	170
WDH 1500 cool	231922	4017212319222	1	170
BF 80	231884	4017212318843	10	171
FG 80/2	231885	4017212318850	48	171
UP 25/7.5 PCV	201620	4017212016206	120	171
UP 25/1-8 PCV	235950	4017212359501	45	171
UP 30/1-8 PCV	235951	4017212359518	45	171
UP 40/1-8 E	227422	4017212274224	30	171
UP 50/1-12 E	227423	4017212274231	20	171
Stratos IF module	235952	4017212359525	56	171
WPKI-V	074347	4017210743470	180	172
WPKI-P E	233097	4017212330975	20	172
WPKI-H E	233098	4017212330982	16	172
WPKI-W E	233099	4017212330999	20	172
WPKI 5	234763	4017212347638		173
BBI 5	234764	4017212347645		173
WPKI 6	234762	4017212347621		173

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UP 25/7.5 PCV	201620	4017212016206	120	173
WPKI-HK E	233602	4017212336021	25	174
WPKI-HKM E	233603	4017212336038	25	174
WPKI-HKV 2	221142	4017212211427	50	174
WPKI-HKV 3	236708	4017212367087	15	174
WPKI-RB	221141	4017212211410	10	175
WPHW 25	221135	4017212211359	30	175
SBP-HF Electric booster heater	074252	4017210742527	9	175
BGC/45	075115	4017210751154	50	175
BGC	003769	4017210037692	50	175
BGC 2/60	232030	4017212320303	50	176
WPRB Pipework set	074233	4017210742336	60	176
FCR 28/120	000694	4017210006940	12	176
FCR 28/180	000695	4017210006957	12	176
FCR 28/270	000696	4017210006964	12	176
FCR 28/360	001502	4017210015027	12	176
FCR 28/120	071332	4017210713329	12	176
FCR 28/120 CrNi	234503	4017212345030	12	176
FCR 28/180	071333	4017210713336	12	176
FS-WP 22	233511	4017212335116	40	177
FS-WP 28	233512	4017212335123	40	177
MFS-WP 22	235233	4017212352335	5	177
MFS-WP 28	235234	4017212352342	5	177
HUV 1	227420	4017212274200	100	177
HUV 2	223391	4017212233917	70	177
HUV 65	227425	4017212274255	20	177
HUV 80	227426	4017212274262	20	177
STB-FB	233711	4017212337110	1000	177
HZEA	230013	4017212300138	30	177
HZEN	230031	4017212300312	100	177
SD 25-1 G	232976	4017212329764	60	178
SD 32-1 G	232977	4017212329771	60	178
SD 25-2 GE	233828	4017212338285	15	178
SD 25-2.5 GE	232971	4017212329719	10	178
SD 32-2 GE	233831	4017212338315	10	178
SD 25-1	074415	4017210744156	60	178
SD 32-1	074414	4017210744149	55	178
SD 25-1 E	232965	4017212329658	60	178
SD 32-1 E	232968	4017212329689	35	178
SD 50-1 E	232972	4017212329726	18	178
SD 25-1 KE	232974	4017212329740	70	178
SD 32-1 KE	232975	4017212329757	50	178
Hose fitting DN 25	003713	4017210037135	25	178
Hose fitting DN 32	070692	4017210706925	40	178
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SHP-A 300 Plus	238634	4017212386347	1	180
SHP-A 300 X Plus	238635	4017212386354	1	180
SHP-F 220 Premium	238630	4017212386309	1	181
SHP-F 300 Premium	238631	4017212386316	1	181
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WWK 222	231209	4017212312094	1	182
WWK 222 H	233209	4017212332092	1	182

DHW heat pumps				
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WWK 302	231211	4017212312117	1	182
WWK 302 H	232905	4017212329054	1	182
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ZH 1	074370	4017210743708	100	183
Inlet pipe 200/500 l	072997	4017210729979	20	183
BGC/45	075115	4017210751154	50	183
AWG 160 R	234505	4017212345054		183
LUS 221/301	236899	4017212368992	33	183

Ventilation

Integral device with central ventilation air supply				
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LWZ 8 CS Premium	201290	4017212012901		186
LWZ 5 S Plus	201291	4017212012918		187
LWZ 5 S Trend	201292	4017212012925		188
Accessories, integral device with central ventilation air supply				
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FES Comfort	227664	4017212276648	100	189
ISG web	229336	4017212293362	100	189
AWG 315 SR	233836	4017212338360		189
AWG 315 GL	232955	4017212329559		189
AWG 315 L	231039	4017212310397		189
LLB AWG 315 L	232341	4017212323410	54	189
LSWP 315-4 SG	201618	4017212016183	8	189
LSWP 315-1.5 SG	201720	4017212017203	8	189
LSWP 315-4 S	234646	4017212346464	8	189
LULH 315 o	232675	4017212326756	20	189
LSK 303/403	227665	4017212276655	20	189
LWTF inverter	233867	4017212338674	5	189
ZLWZ circulation set	233301	4017212333013	40	189
FMS G4-10 ABL inverter	231330	4017212313305	50	189
FMS M5-2 ZUL inverter	231331	4017212313312	100	189
FMS F7-2 ZUL inverter	231332	4017212313329	100	189
ZLWZ Trans	233485	4017212334850	20	189
Ventilation equipment with DHW heat pump				
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LWA 252	074264	4017210742640	1	190
LWA 252 SOL	074265	4017210742657	1	190
LWA 100	221470	4017212214701		191
Accessories, ventilation equipment with DHW heat pump				
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Remote control RC 1	170328	4017211703282	100	192
Outside temperature sensor AFS 2	165339	4017211653396	10	192
FMS LWA 100	221398	4017212213988	60	192
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LWZ 180	232361	4017212323618	1	193
LWZ 280	232362	4017212323625	1	193
LWZ 70 E	233851	4017212338513	6	194
LWZ 170 E plus	233850	4017212338506	2	194
LWZ 370 plus	232033	4017212320334	2	194

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LWZ 130	237805	4017212378052	1	195
LWZ 130 Enthalpie	237806	4017212378069	1	195
FEB	236039	4017212360392	60	196
FMS G4-10 180	234147	4017212341476	40	196
FMK M5-2 180	234148	4017212341483	48	196
FMK F7-2 180	234208	4017212342084	48	196
LWTF 180/280	236420	4017212364208	5	196
FEQ	189800	4017211898001	50	196
FEZ	185358	4017211853581	100	196
ZLWZ 4 S	234866	4017212348666	30	196
FMS G3-10 70	222446	4017212224465	50	196
FMK F7-2 70	227660	4017212276600	100	196
LSK 70 E	227046	4017212270462	10	196
ZLWZ VHR 70 E	236038	4017212360385		196
ZLWZ 100 G-DN100	223228	4017212232286	20	197
Extension, combi duct EPS	223230	4017212232309	25	197
FMS G4-10 LWZ 100 Bypass	231446	4017212314463	30	197
FMS G4-10 LWZ 100 ABL	231447	4017212314470	30	197
FMK M5-2 LWZ 100 ZUL	231448	4017212314487	60	197
FMK F7-2 LWZ 100 ZUL	231449	4017212314494	50	197
FMS G4-10 130/135	238923	4017212389232	60	197
FMK M5-2 130/135	238924	4017212389249	60	197
FMK F7-2 130/135	238925	4017212389256	60	197
Demand-dependent ventilation appliances without heat recovery				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
LA 60 VE-U	201450	4017212014509	48	199
LA 60 VE-A	201451	4017212014516	48	199
LA 60 VE-U	201450	4017212014509	48	200
LA 60 G-U	201448	4017212014486	56	200
LA 60 VE-A	201451	4017212014516	48	200
ZLA 60-T	201453	4017212014530	100	201
ZLA 60-H	201454	4017212014547	100	201
LWF W 100 VA - 60	231104	4017212311042	20	201
FMS G2-5 LA 60	201455	4017212014554	30	201
Decentralised ventilation units with heat recovery				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
VLR 70 S Trend EN	200002	4017212000021		202
VLR 70 L Trend EN	201458	4017212014585		202
VLR 70-2 CU	239570	4017212395707		202
VLR 70-4 CU	239571	4017212395714		202
VLR 70-8 CU	239572	4017212395721		202
VLR 70 RF COARSE 30 G2-4	239562	4017212395622		202
VLR 70 RF COARSE 60 G4-4	239575	4017212395752		202
VLR 70 RF EPM10 50 M5-4	239576	4017212395769		202
VLR 70 RF EPM1 50 F7-4	239577	4017212395776		202
Accessories for ventilation systems				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
ALD 160	189813	4017211898131	72	203
Installation pipe ALD	189816	4017211898162	50	203
AWG 160 R	234505	4017212345054		203

Solar

High performance flat-plate collector for rooftop installation				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
SOL 27 premium S	230016	4017212300169	12	206
SOL 27 premium W	230017	4017212300176	12	206
SOL SV-A	230185	4017212301852	100	207
SOL SV-A50	231322	4017212313220	25	207
SOL SV-D	230186	4017212301869	80	207
SOL SV-F	230913	4017212309131	100	207
SOL 27 basic	228927	4017212289273	12	208
SOL 27 basic W	230912	4017212309124	13	208
KTH basic	229322	4017212293225	50	208
Corrugated stainless steel hose	073469	4017210734690	50	208
Fixing accessory, flat-plate collector (rooftop)				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
SOL SBP-S	231980	4017212319802	32	209
SOL SBP-W	231981	4017212319819	30	209
SOL SBP-WE	231982	4017212319826	32	209
SOL BP	230175	4017212301753	49	209
SOL BW	231998	4017212319987	60	209
SOL BS	230189	4017212301890	49	209
SOL BF-S	230177	4017212301777	49	209
SOL BF-W	230178	4017212301784	49	209
SOL R1	230169	4017212301692	40	210
SOL R1 W	230920	4017212309209	66	210
SOL R2	230170	4017212301708	66	210
SOL RV	230171	4017212301715	60	210
SOL RV-W	230172	4017212301722	49	210
SOL RA	230173	4017212301739	50	210
SOL AL-S	230931	4017212309315	40	210
SOL AL-W	230932	4017212309322	40	210
High performance flat-plate collector for roof integration				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
SOL 23 premium	230020	4017212300206	12	211
SOL SV-I	230187	4017212301876	100	212
SOL SV-R	230188	4017212301883	50	212
Fixing accessory, flat-plate collector (roof integration)				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
SOL AS	230184	4017212301845	30	213
SOL AZ	230183	4017212301838	10	213
Solar system controllers				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
SOM 7 E plus	234785	4017212347850	20	214
SOM 8 plus	230933	4017212309339	10	215
Controller accessories				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
PT 1000	165818	4017211658186	75	216
HKM	187872	4017211878720	20	216
SOM WMZ SOL	227729	4017212277294	20	216
V 40	170497	4017211704975	50	216
Solar compact installations				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
SOKI E Trend	234783	4017212347836	42	217
SOKI 7 E plus	234784	4017212347843	30	218
SOKI SAS	231987	4017212319871	15	218

Program summary

DHW cylinder				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
SBB 300 plus	187873	4017211878737	1	219
SBB 400 plus	187874	4017211878744	1	219
SBB 600 plus	187875	4017211878751	1	219
SB-VTS 200/3	200162	4017212001622		219
SB-VTS 300/3	200163	4017212001639		219
SB-VTS 400/3	200164	4017212001646		219
SB-VTS 500/3	200165	4017212001653	49	219
SBBE 401 WP SOL	234350	4017212343500	1	220
SBBE 501 WP SOL	234351	4017212343517	1	220
RBS 401	234511	4017212345115	6	220
RBS 501	234513	4017212345139	5	220
SBB 401 WP SOL	221362	4017212213629	1	221
SBB 501 WP SOL	227534	4017212275344	1	221
WRV 32	232628	4017212326282	100	221
SBB 751 SOL	229294	4017212292945	1	222
SBB 1001 SOL	229295	4017212292952	1	222
WDH 751 SBB	231923	4017212319239	1	222
WDH 1001 SBB	231924	4017212319246	1	222
SBB 600 WP SOL	235906	4017212359068	1	223
SBB 800 WP SOL	235907	4017212359075	1	223
SBB 1000 WP SOL	235908	4017212359082	1	223
WDH 600 SBB	235909	4017212359099	1	223
WDH 800 SBB	235910	4017212359105	1	223
WDH 1000 SBB	235911	4017212359112	1	223
SBS 601 W SOL	229984	4017212299845	1	224
SBS 801 W SOL	229985	4017212299852	1	224
SBS 1001 W SOL	229986	4017212299869	1	224
SBS 1501 W SOL	229987	4017212299876	1	224
WDH 601 SBS	231925	4017212319253	1	224
WDH 801 SBS	231926	4017212319260	1	224
WDH 1001 SBS	231927	4017212319277	1	224
WDH 1501 SBS	231928	4017212319284	1	224
UBS-VL	238489	4017212384893	6	225
UBS-RL	238490	4017212384909	6	225
ZW 1 ¼	230312	4017212303122	100	225
Buffer cylinder				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
SBP 700 E SOL	185460	4017211854601	1	226
SBP 1000 E SOL	227566	4017212275665	1	226
SBP 1500 E SOL	227567	4017212275672	1	227
WDH 1000 SBP	231929	4017212319291	1	227
WDH 1500 SBP	231930	4017212319307	1	227
Solar system accessories				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
H-30 L, 10 litres	073221	4017210732214	60	228
H-30 L, 20 litres	073222	4017210732221	24	228
H-30 LS, 10 litres	074099	4017210740998	60	228
H-30 LS, 20 litres	074100	4017210741001	24	228
SOL LA	231015	4017212310151	432	228
SOL SE	231898	4017212318980	50	228
VAG 12	231979	4017212319796	32	228
AG 12	074029	4017210740295	72	228
AG 18	074030	4017210740301	32	228
AG 25	074031	4017210740318	42	228

Solar system accessories				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
AG 50	187868	4017211878683	22	228
AG 80	231899	4017212318997	12	228
AGWH	231905	4017212319055	50	229
WPRB Pipework set	074233	4017210742336	60	229
KTH basic	229322	4017212293225	50	229
Corrugated stainless steel hose	073469	4017210734690	50	229
SUV	231900	4017212319000	200	230
SFR 10	232944	4017212329443	5	230
SFR 15	232945	4017212329450	6	230
SFR 20	232946	4017212329467	6	230
SFR 25	232947	4017212329474	8	230
KGS	231906	4017212319062	40	230
Solar sets				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
Solar set basic 300/2	221388	4017212213889		231
Solar set basic WP	228839	4017212288399		231
Solar-Set SBBE 401 WP SOL	230152	4017212301524	100	232
Solar-Set SBBE 501 WP SOL	230153	4017212301531	100	232
Solar set SBS 601 W SOL	230156	4017212301562	100	233
Solar set SBS 801 W SOL	230157	4017212301579	100	233

Storage heater

Standard storage heater				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
SHF 2000	200175	4017212001752	1	240
SHF 3000	200176	4017212001769	1	240
SHF 4000	200177	4017212001776	1	240
SHF 5000	200178	4017212001783	1	240
SHF 6000	200179	4017212001790	1	240
SHF 7000	200180	4017212001806	1	240
Accessories for storage heaters				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
Booster 0.35 kW	238723	4017212387238	50	241
Booster 0.5 kW	238724	4017212387245	50	241
Booster 0.8 kW	238725	4017212387252	50	241
Booster 1 kW	238726	4017212387269	75	241
Booster 1.2 kW	238727	4017212387276	50	241
Booster 1.5 kW	238728	4017212387283	50	241
Vario mounting bracket, standard and low-level storage heater	182028	4017211820286	50	241
Charge controllers elthermatic®				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
EAC 5	202466	4017212024669		242
ZSE 5	202467	4017212024676		242
Room temperature controller eltromatic®				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
RTU-TC	238912	4017212389126	400	243
RTA-S UP	223344	4017212233443	150	243
RTA-S2	231061	4017212310618	500	243
RTNZ-S2	231063	4017212310632	50	243
SRC C digital	234417	4017212344170		244
SRC R UP	234420	4017212344200		244
SRC R AP	234421	4017212344217		244

Program summary

Comfort heating

Radiant heater				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
RHB 300	234422	4017212344224	10	245
RHB 500	234423	4017212344231	5	245
RHB 700	234424	4017212344248	5	245
RHB 900	234425	4017212344255	5	245
RHW 300	234426	4017212344262	10	245
RHW 500	234427	4017212344279	7	245
RHW 700	234428	4017212344286	8	245
RHW 900	234429	4017212344293	6	245
Natural stone heater				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
MHG 35 E	233642	4017212336427	5	246
MHG 65 E	233643	4017212336434	5	246
MHG 85 E	233644	4017212336441	5	246
MHG 115 E	233645	4017212336458	5	246
MHG 145 E	233646	4017212336465	5	246
MHG 165 E	233647	4017212336472	5	246
MHJ 35 E	233648	4017212336489	5	246
MHJ 65 E	233649	4017212336496	5	246
MHJ 85 E	233650	4017212336502	5	246
MHJ 115 E	233651	4017212336519	5	246
MHJ 145 E	233652	4017212336526	5	246
MHJ 165 E	233653	4017212336533	5	246
MHS 35 E	233654	4017212336540	5	247
MHS 65 E	233655	4017212336557	5	247
MHS 85 E	233656	4017212336564	5	247
MHS 115 E	233657	4017212336571	5	247
MHS 145 E	233658	4017212336588	5	247
MHS 165 E	233659	4017212336595	5	247
MHP 35 E	233660	4017212336601	5	247
MHP 65 E	233661	4017212336618	5	247
MHP 85 E	233662	4017212336625	5	247
MHP 115 E	233663	4017212336632	5	247
MHP 145 E	233664	4017212336649	5	247
MHP 165 E	233665	4017212336656	5	247
SPH 35 E	233666	4017212336663	5	247
SPH 65 E	233667	4017212336670	5	247
SPH 85 E	233668	4017212336687	3	247
SPH 115 E	233669	4017212336694	5	247
SPH 145 E	233670	4017212336700	5	247
SPH 165 E	233671	4017212336717	5	247
Accessories for radiant heaters and natural stone heaters				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
RTU-TC	238912	4017212389126	400	248
SRC C digital	234417	4017212344170	50	248
SRC R UP	234420	4017212344200	60	248
SRC R AP	234421	4017212344217	50	248
thermofloor floor conditioning				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
FTM 150 B	234548	4017212345481	21	249
FTM 225 B	234549	4017212345498	21	249
FTM 300 B	234550	4017212345504	21	249
FTM 375 B	234551	4017212345511	21	249
FTM 450 B	234552	4017212345528	21	249
FTM 600 B	234553	4017212345535	21	249
thermofloor floor conditioning				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
FTM 750 B	234554	4017212345542	28	249
FTM 900 B	234555	4017212345559	28	249
FTM 1050 B	234556	4017212345566	14	249
FTB 160	234834	4017212348345	46	249
Accessories for floor tempering				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
RTF-TC	236724	4017212367247	500	250
RTF-730	236723	4017212367230	100	250
FT-FR 10	238474	4017212384749	350	251
FR TB	234702	4041056031712	300	251
Bathroom radiators				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
BHE 50 Plus	239141	4017212391419	6	252
BHE 75 Plus	238713	4017212387139	6	253
BHE 100 Plus	238714	4017212387146	6	253
BHE 175 T Plus	238715	4017212387153	6	253

Direct heating

Wall convectors				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
CND 75	234813	4017212348130	20	254
CND 100	234814	4017212348147	20	254
CND 150	234815	4017212348154	8	254
CND 200	234816	4017212348161	13	254
CON 5 Premium	237830	4017212378304	44	255
CON 10 Premium	237831	4017212378311	22	255
CON 15 Premium	237832	4017212378328	22	255
CON 20 Premium	237833	4017212378335	22	255
CON 30 Premium	237834	4017212378342	18	255
CON 5 Premium U	201278	4017212012789	44	256
CON 10 Premium U	200268	4017212002681	22	256
CON 15 Premium U	200269	4017212002698	22	256
CON 20 Premium U	200270	4017212002704	22	256
CON 30 Premium U	200276	4017212002766	18	256
CWM 500 P	200254	4017212002544	84	257
CWM 750 P	200255	4017212002551	72	257
CWM 1000 P	200256	4017212002568	72	257
CWM 1500	200257	4017212002575	56	257
CWM 2000	200258	4017212002582	31	257
CWM 2500	200259	4017212002599	32	257
CWM 3000 P	200260	4017212002605	26	257
CWM 500 U	200261	4017212002612	84	258
CWM 750 U	200262	4017212002629	72	258
CWM 1000 U	200263	4017212002636	72	258
CWM 1500 U	200264	4017212002643	56	258
CWM 2000 U	200265	4017212002650	31	258
CWM 2500 U	200266	4017212002667	32	258
CWM 3000 U	200267	4017212002674	26	258
CNS 100 S	220718	4017212207185	72	259
CNS 200 S	220722	4017212207222	31	259
CNS 300 S	220724	4017212207246	28	259
Freestanding convector heaters				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
CNS 100 F	229790	4017212297902	46	260
CNS 200 F	229794	4017212297940	34	260
CNS 250 F	229795	4017212297957	28	260

Program summary

Quick-response heaters				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
CK 20 Premium	237835	4017212378359	44	261
CK 20 Plus	202127	4017212021279		262
CK 20 Trend LCD	236653	4017212366530	35	263
CK 20 Trend	234918	4017212349182	35	263
Quick-response heaters				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
IA 2024 outdoor	233889	4017212338896	48	264
IA 2054 extreme	233882	4017212338827	66	264
IA receiver	233875	4017212338759	20	264
IA remote control	234728	4017212347287	30	264
IW 120	229339	4017212293393	140	265
IW 180	229340	4017212293409	140	265

Hand dryer

Warm air hand dryer				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
HTE 4	073007	4017210730074	60	266
HTE 5	073008	4017210730081	60	266
HTT 4 WS	074464	4017210744644	60	267
HTT 5 WS	074465	4017210744651	60	267
HTT 5 SM	182053	4017211820538	60	267
HTT 5 AM	182052	4017211820521	60	267
Hand drier Highspeed				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
Ultronic S	231582	4017212315828	48	268
Ultronic W	231583	4017212315835	48	268

Engineering services

Engineering services				
Model	**Part No.**	**EAN**	**Pcs./Pal.**	**Page**
Heat load calculation to DIN EN 12831	240587	4017212405871		270
Heat load calculation, apartment building	303540	4017213035404		270
Heat load calculation, non-residential buildings	303541	4017213035411		270
Cooling load calculation, detached house	341599	4017213415992		270
Cooling load calculation, apartment building	341600	4017213416005		270
Cooling load calculation, non-residential buildings	341601	4017213416012		270
Heat pump system design service	240588	4017212405888		270
Heat pump, non-residential buildings	303542	4017213035428		270
Engineering service: ventilation equipment, 3D	240592	4017212405925		270
Engineering service, solar technology	240591	4017212405918		271

Notes

New Development and Replacement

New Development | Replacement

Hot water						
Part No.	**Discontinued lineprodukt**	**Note**	**Part No.**	**New product**	**Available antil**	**Available from**
		new	238149	DCE-C 10/12 Trend		Sep. 19
		new	238148	DCE-C 6/8 Trend		Sep. 19
		new	238154	DCE-S 10/12 Plus		Sep. 19
		new	238153	DCE-S 6/8 Plus		Sep. 19
		new	238159	DCE-X 10/12 Premium		Sep. 19
		new	238158	DCE-X 6/8 Premium		Sep. 19
227499	DEL 18/21/24 Sli	displace	236739	DEL 18/21/24 Plus	Aug. 19	Aug. 19
227500	DEL 27 Sli	displace	236740	DEL 27 Plus	Aug. 19	Aug. 19
232013	DHB-E 11 Sli	displace	236743	DHB-E 11/13 LCD	Okt. 19	Aug. 19
232014	DHB-E 13 Sli	displace	236743	DHB-E 11/13 LCD	Okt. 19	Aug. 19
232015	DHB-E 18 SLi 25A	displace	236744	DHB-E 18 LCD 25A	Okt. 19	Aug. 19
232016	DHB-E 18/21/24 Sli	displace	236745	DHB-E 18/21/24 LCD	Okt. 19	Aug. 19
232017	DHB-E 27 Sli	displace	236746	DHB-E 27 LCD	Okt. 19	Aug. 19
227493	DHE 18/21/24 Sli	displace	202656	DHE 18/21/24	Jul. 20	Jul. 20
227494	DHE 27 Sli	displace	202657	DHE 27	Jul. 20	Jul. 20
		new	234479	FFB 4 AP		Aug. 19
		new	234478	FFB 4 EU		Aug. 19
		new	238931	FFB 4 Set AP		Aug. 19
		new	238930	FFB 4 Set EU		Aug. 19
		new	200016	UP-Kit EU		Sep. 19
222204	SN 15 SLi	old			Mrz. 20	
232421	SNU HOT GB + HOT 3in1 cr	old			Mrz. 20	
232422	SNU HOT GB + HOT 3in1 sf	old			Mrz. 20	
185352	SHW 300 WS	old			Mrz. 20	
185353	SHW 400 WS	old			Mrz. 20	
691	FCR 18/60	old			Mrz. 20	
692	FCR 18/90	old			Mrz. 20	
232029	BGC 2	old			Mrz. 20	
1663	GF 18	old			Mrz. 20	
1664	GF 28	old			Mrz. 20	
76062	WTW 21/13	old			Mrz. 20	
76098	WTW 28/18	old			Mrz. 20	
76099	WTW 28/23	old			Mrz. 20	
72119	WTFS 21/13	old			Mrz. 20	
72118	WTFS 28/23	old			Mrz. 20	
3039	SB 650/3 AC	old			Mrz. 20	
74478	PSH 30 Si	old			Mrz. 20	
74479	PSH 50 Si	old			Mrz. 20	
74480	PSH 80 Si	old			Mrz. 20	
74481	PSH 100 Si	old			Mrz. 20	
74482	PSH 120 Si	old			Mrz. 20	
74483	PSH 150 Si	old			Mrz. 20	
236081	WDS 650	old			Mrz. 20	

Heat pumps						
Part No.	**Discontinued lineprodukt**	**Note**	**Part No.**	**New product**	**Available antil**	**Available from**
225062	VTI 100	old			Jul. 19	
225064	VTI 150	old			Jul. 19	
225066	VTI 200	old			Jul. 19	
225073	VTI 300	old			Jul. 19	
224992	VTI 400	old			Jul. 19	
224995	VTI 500	old			Jul. 19	
231988	VTH 100	old			Jul. 19	
231989	VTH 120	old			Jul. 19	
231990	VTH 150	old			Jul. 19	
225068	VTS 200	old			Jul. 19	
225072	VTS 300	old			Jul. 19	
224994	VTS 400	old			Jul. 19	
224997	VTS 500	old			Jul. 19	
230646	HP 2/040	old			Jul. 19	
230645	HP 3/150	old			Jul. 19	
232129	MK 1	old			Apr. 20	
189820	ACTH 20	old			Nov. 19	
189861	Konsole ACTH	old			Nov. 19	
223443	ACKH 18	old			Nov. 19	

New Development | Replacement

Ventilation						
Part No.	**Discontinued lineprodukt**	**Note**	**Part No.**	**New product**	**Available antil**	**Available from**
234656	LA 50	displace	237109	LA 70 VE-U	Mrz. 20	
234181	ZLA 30 S3	displace	237110	LA 70 VE-U 12	Mrz. 20	
236314	ZLA 30 M18	displace	237103	ZLA 70-T	Mrz. 20	
236315	ZLA 30 M60	displace	237105	ZLA 70-H	Mrz. 20	
235106	LASBi	displace	237108	ZLA 70-T eco15S	Mrz. 20	
235107	LASBa	displace	237111	LA 70 ABG	Mrz. 20	
170018	LWF SF315-1	displace	202933	LWF SK 315-0,6	Mrz. 20	Apr. 20
Solar						
Part No.	**Discontinued lineprodukt**	**Note**	**Part No.**	**New product**	**Available antil**	**Available from**
230016	SOL 27 premium S	old			Dez. 20	
230017	SOL 27 premium W	old			Dez. 20	
230185	SOL SV-A	old			Dez. 20	
231322	SOL SV-A50	old			Dez. 20	
230186	SOL SV-D	old			Dez. 20	
230913	SOL SV-F	old			Dez. 20	
228927	SOL 27 basic	old			Dez. 20	
230912	SOL 27 basic W	old			Dez. 20	
229322	KTH basic	old			Dez. 20	
73469	Edelstahl-Wellschlauch	old			Dez. 20	
231980	SOL SBP-S	old			Dez. 20	
231891	SOL SBP-W	old			Dez. 20	
231982	SOL SBP-WE	old			Dez. 20	
230175	SOL BP	old			Dez. 20	
231998	SOL BW	old			Dez. 20	
230189	SOL BS	old			Dez. 20	
230177	SOL BF-S	old			Dez. 20	
230178	SOL BF-W	old			Dez. 20	
230169	SOL R1	old			Dez. 20	
230920	SOL R1 W	old			Dez. 20	
230170	SOL R2	old			Dez. 20	
230173	SOL RA	old			Dez. 20	
230931	SOL AL-S	old			Dez. 20	
230932	SOL AL-W	old			Dez. 20	
230020	SOL 23 premium	old			Dez. 20	
230187	SOL SV-I	old			Dez. 20	
230188	SOL SV-R	old			Dez. 20	
230184	SOL AS	old			Dez. 20	
230183	SOL AZ	old			Dez. 20	
234785	SOM 7 E plus	old			Dez. 20	
230933	SOM 8 plus	old			Dez. 20	
165818	PT 1000	old			Dez. 20	
227729	SOM WMZ SOL	old			Dez. 20	
170497	V 40	old			Dez. 20	
234783	SOKI E trend	old			Dez. 20	
234784	SOKI 7 E plus	old			Dez. 20	
231987	SOKI SAS	old			Dez. 20	
187873	SBB 300 plus	old			Dez. 20	
187874	SBB 400 plus	old			Dez. 20	
187875	SBB 600 plus	old			Dez. 20	
73221	H-30 L	old			Dez. 20	
73222	H-30 L	old			Dez. 20	
74099	H-30 LS	old			Dez. 20	
74100	H-30 LS	old			Dez. 20	
231015	SOL LA	old			Dez. 20	
231898	SOL SE	old			Dez. 20	
231979	VAG 12	old			Dez. 20	
74029	AG 12	old			Dez. 20	
74030	AG 18	old			Dez. 20	
74031	AG 25	old			Dez. 20	
187868	AG 50	old			Dez. 20	
231899	AG 80	old			Dez. 20	
231905	AGWH	old			Dez. 20	
231900	SUV	old			Dez. 20	
232944	SFR 10	old			Dez. 20	
232945	SFR 15	old			Dez. 20	
232946	SFR 20	old			Dez. 20	
232947	SFR 25	old			Dez. 20	

New Development | Replacement

Solar						
Part No.	**Discontinued lineprodukt**	**Note**	**Part No.**	**New product**	**Available antil**	**Available from**
231906	KGS	old			Dez. 20	
221388	Solar-Set Basic 300/2	old			Dez. 20	
228839	Solar-Set Basic WP	old			Dez. 20	
230152	Solar-Set SBBE 401 WP SOL	old			Dez. 20	
230153	Solar-Set SBBE 501 WP SOL	old			Dez. 20	
230156	Solar-Set SBS 601 W SOL	old			Dez. 20	
230157	Solar-Set SBS 801 W SOL	old			Dez. 20	
Central heating						
Part No.	**Discontinued lineprodukt**	**Note**	**Part No.**	**New product**	**Available antil**	**Available from**
187900	EAC 4	displace	202466	EAC 5	Mrz. 20	Feb. 20
187901	EAS 4	old			Mrz. 20	
187902	ZSE 4	displace	202467	ZSE 5	Mrz. 20	Feb. 20
185605	FT-C set	old			Mrz. 20	
231064	RTU-S UP Stiebel	old			Mrz. 20	
231065	RTF-Z2 Eltron	old			Mrz. 20	
234419	SRC R S	old			Aug. 19	
234418	SRC C analog	old			Mrz. 20	

Hot Water

Comfort instantaneous water heater
SELECT comfort instantaneous water heater

PER 18/21/24

SELECT COMFORT INSTANTANEOUS WATER HEATER

PER

Instantaneous water heater with full electronic control. Accurate temperature selection thanks to easy-to-read multifunction display with 2-colour backlighting. Display of temperature, flow rate, energy consumption and time. Two memory keys for individually selectable temperatures. Convenience function: Economy button, automatic water volume control, shower program and ECO function for energy efficient operation. Remote temperature control for one-off temperature selection for the next draw-off. Heat exchanger made from glass fibre reinforced polyamide. 4 internal indirect coils immersed directly in the water. Measuring turbine for precise flow rate measurement. Electronic air bubble detection. Process-controlled motorised valve for accurate water temperature at maximum flow rate. Temperature selection from 30 °C to 60 °C. Integrated diagnostic system. Suitable for inlet temperatures up to max. 60 °C (e.g. water preheated with solar energy). Connection options for both remote and direct draw-off. For connection to plastic pipe installations with DVGW test mark. Easy installation thanks to separate mounting plate and quick-release toggle, with installation template, hood removal from the front, no screws, electrical connection from above or below. Power supply with permanent connection. Optional undersink installation with accessories. Can be connected to all commercially available sealed unvented taps. Quality and safety symbols: CE mark, VDE / GS symbol, EMI symbol / EMC.

- Fully electronic control of output and flow rate for maximum convenience
- Always accurate temperature delivery, even above maximum output
- Saves up to 30 % energy and water and ECO mode for highly efficient operation
- Backlit, dual colour multifunction display
- Integral diagnostic system and customer service mode
- Quick and easy installation

Part No.	Model	Rated output	Height	Width	Depth
233990	PER 18/21/24	18/21/24 kW	485 mm	226 mm	93 mm

Specification

Model	PER 18/21/24
Rated voltage 1	380 V
Rated output 1	16,2/19/21,7 kW
Rated current 1	27,6/29,5/33,3 A
Fuse 1	32/32/35 A
Frequency 1	50/60 Hz
Rated voltage 2	400 V
Rated output 2	18/21/24 kW
Rated current 2	29/31/35 A
Fuse 2	32/32/35 A
Frequency 2	50/60 Hz
Rated voltage 3	415 V
Rated output 3	19,4/22,6/25,8 kW
Rated current 3	30,1/32,2/36,3 A
Fuse 3	32/32/40 A
Frequency 3	50/- Hz
Phases	3/PE
Temperature adjustment	30-60 °C
Specific resistance ρ_{15} ≥ (at ϑcold ≤25 °C and 400 V)	900 Ω cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤25 °C and 400 V)	1111 µS/cm
Specific resistance ρ_{15} ≥ (at ϑcold ≤45 °C and 400 V)	1200 Ω cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤45 °C and 400 V)	830 µS/cm
Specific resistance ρ_{15} ≥ (at ϑcold ≤25 °C and 380 V)	900 Ω cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤25 °C and 380 V)	1111 µS/cm
Specific resistance ρ_{15} ≥ (at ϑcold ≤45 °C and 380 V)	1200 Ω cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤45 °C and 380 V)	830 µS/cm
Specific resistance ρ_{15} ≥ (at ϑcold ≤25 °C and 415 V)	1000 Ω cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤25 °C and 415 V)	1000 µS/cm
Specific resistance ρ15 ≥ (at ϑcold ≤45 °C and 415 V)	1300 Ω cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤45 °C and 415 V)	770 µS/cm
Energy efficiency class	A
IP-Rating	IP25
Colour	white
Weight	3.8 kg

Comfort instantaneous water heater
SELECT comfort instantaneous water heater

PEO

PEO

Electronically controlled instantaneous water heater for supplying washbasin, kitchen sink, shower or bath tub. Fast closed-loop control. Accurate temperature selection (from 30 °C to 60 °C) thanks to easy-to-read, two-colour LCD. At temperatures above 43 °C, the colour of the display changes from blue to red, to indicate a risk of scalding. Suitable for solar operation with inlet temperatures up to 45 °C. Integrated diagnostic system, electronic air detector. Heat exchanger made from glass fibre reinforced polyamide. 4 internal indirect coils immersed directly in the water. Measuring turbine for precise flow rate measurement. Connection options for both remote and direct draw-off. For connecting to VPE plastic pipes with DVGW test mark. Easy installation thanks to separate mounting plate and twist lock, with installation template, hood removal from the front, no screws, electrical connection from above or below. Power supply with permanent connection. Optional undersink installation with accessories. Can be connected to all commercially available sealed unvented taps. Quality and safety symbols: CE mark, VDE / GS symbol, EMI symbol / EMC.

- Electronic control for increased convenience
- Accurate temperature delivery up to the maximum output
- Saves up to 30 % energy and water
- Backlit, dual colour LCD
- Integrated diagnostic system
- Quick and easy installation

Part No.	Model	Rated output	Height	Width	Depth
233991	PEO 18/21/24	18/21/24 kW	485 mm	226 mm	93 mm
233992	PEO 27	27 kW	485 mm	226 mm	93 mm

Specification

Model	PEO 18/21/24	PEO 27
Rated voltage 1	380 V	380 V
Rated output 1	16,2/19/21,7 kW	24,4 kW
Rated current 1	27,6/29,5/33,3 A	37,1 A
Fuse 1	32/32/35 A	40 A
Frequency 1	50/60 Hz	50/60 Hz
Rated voltage 2	400 V	400 V
Rated output 2	18/21/24 kW	27 kW
Rated current 2	29/31/35 A	39 A
Fuse 2	32/32/35 A	40 A
Frequency 2	50/60 Hz	50/60 Hz
Rated voltage 3	415 V	
Rated output 3	19,4/22,6/25,8 kW	
Rated current 3	30,1/32,2/36,3 A	
Fuse 3	32/32/40 A	
Frequency 3	50/- Hz	
Phases	3/PE	3/PE
Temperature adjustment	30-60 °C	30-60 °C
Specific resistance ρ_{15} ≥ (at ϑcold ≤25 °C and 380 V)	900 Ω cm	900 Ω cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤25 °C and 380 V)	1111 µS/cm	1111 µS/cm
Specific resistance ρ_{15} ≥ (at ϑcold ≤25 °C and 400 V)	900 Ω cm	900 Ω cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤25 °C and 400 V)	1111 µS/cm	1111 µS/cm
Specific resistance ρ_{15} ≥ (at ϑcold ≤45 °C and 380 V)	1200 Ω cm	1200 Ω cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤45 °C and 380 V)	833 µS/cm	833 µS/cm
Specific resistance ρ_{15} ≥ (at ϑcold ≤45 °C and 400 V)	1200 Ω cm	1200 Ω cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤45 °C and 400 V)	833 µS/cm	833 µS/cm
Energy efficiency class	A	A
IP-Rating	IP25	IP25
Colour	white	white
Weight	3.6 kg	3.6 kg

Comfort instantaneous water heater
SELECT comfort instantaneous water heater

PEY

PEY

Electronically controlled instantaneous water heater for supplying washbasin, kitchen sink, shower or bath tub. Fast closed-loop control. Variable temperature selection (from 30 °C to 60 °C) using analogue scale. Suitable for solar operation with inlet temperatures up to 45 °C. Integrated diagnostic system, electronic air detector. Heat exchanger made from glass fibre reinforced polyamide. 4 internal indirect coils immersed directly in the water. Measuring turbine for precise flow rate measurement. Connection options for both remote and direct draw-off. For connecting to VPE plastic pipes with DVGW test mark. Easy installation thanks to separate mounting plate and twist lock, with installation template, hood removal from the front, no screws, electrical connection from above or below. Power supply with permanent connection. Oversink installation, can be connected to all commercially available sealed unvented taps. Quality and safety symbols: CE mark, VDE / GS symbol, EMI symbol / EMC.

- Electronic control for a high level of convenience
- Accurate temperature delivery up to the maximum output
- Saves up to 30 % energy and water
- Analog, variable temperature selection from 30 - 60 °C
- Integrated diagnostic system
- Quick and easy installation

Part No.	Model	Rated output	Height	Width	Depth
233993	PEY 18/21/24	18/21/24 kW	485 mm	226 mm	93 mm

Specification

Model	PEY 18/21/24
Rated voltage 1	380 V
Rated output 1	16,2/19/21,7 kW
Rated current 1	27,6/29,5/33,3 A
Fuse 1	32/32/35 A
Frequency 1	50/60 Hz
Rated voltage 2	400 V
Rated output 2	18/21/24 kW
Rated current 2	29/31/35 A
Fuse 2	32/32/35 A
Frequency 2	50/60 Hz
Rated voltage 3	415 V
Rated output 3	19,4/22,6/25,8 kW
Rated current 3	30,1/32,2/36,3 A
Fuse 3	32/32/40 A
Frequency 3	50/- Hz
Phases	3/PE
Temperature adjustment	ca.30-60 °C
Specific resistance ρ_{15} ≥ (at ϑcold ≤25 °C and 380 V)	900 Ω cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤25 °C and 380 V)	1111 µS/cm
Specific resistance ρ_{15} ≥ (at ϑcold ≤25 °C and 400 V)	900 Ω cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤25 °C and 400 V)	1111 µS/cm
Specific resistance ρ_{15} ≥ (at ϑcold ≤25 °C and 415 V)	1000 Ω cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤25 °C and 415 V)	1000 µS/cm
Specific resistance ρ_{15} ≥ (at ϑcold ≤45 °C and 380 V)	1200 Ω cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤45 °C and 380 V)	833 µS/cm
Specific resistance ρ_{15} ≥ (at ϑcold ≤45 °C and 400 V)	1200 Ω cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤45 °C and 400 V)	833 µS/cm
Specific resistance ρ15 ≥ (at ϑcold ≤45 °C and 415 V)	1300 Ω cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤45 °C and 415 V)	770 µS/cm
Energy efficiency class	A
IP-Rating	IP25
Colour	white
Weight	3.6 kg

Comfort instantaneous water heater
SELECT comfort instantaneous water heater

PEG

PEG

Electronically controlled instantaneous water heater for supplying a washbasin, kitchen sink, shower or bath tub. PCB ensures high level of DHW convenience. Two fixed temperatures 42 °C and 55 °C, with application icons. Fast control PCB for high temperature stability, heat exchanger made from glass fibre reinforced polyamide. 4 internal indirect coils immersed directly in the water. Measuring turbine for precise flow rate measurement, electronic air bubble detection. Largely consistent outlet temperatures in the event of pressure or supply temperature fluctuations. Connection options for both remote and direct draw-off. For connecting to VPE plastic pipes with DVGW test mark. Easy installation thanks to separate mounting plate and twist lock, with installation template, hood removal from the front, no screws, electrical connection from above or below. Can be connected to all commercially available sealed unvented taps. Quality and safety symbols: CE mark, VDE / GS symbol, EMI symbol / EMC.

- Electronic control for high level of convenience
- Consistent temperature delivery up to the maximum output
- Saves up to 30 % energy and water
- Two-stage temperature selection with application icons – approx. 42 °C | 55 °C
- Integrated diagnostic system
- Quick and easy installation

Part No.	Model	Rated output	Height	Width	Depth
233994	PEG 13	13,5 kW	485 mm	226 mm	93 mm
233995	PEG 18	18 kW	485 mm	226 mm	93 mm
233996	PEG 21	21 kW	485 mm	226 mm	93 mm
233997	PEG 24	24 kW	485 mm	226 mm	93 mm

Specification

Model	PEG 13	PEG 18	PEG 21	PEG 24
Rated voltage 1	380 V	380 V	380 V	380 V
Rated output 1	12,2 kW	16,2 kW	19 kW	21,7 kW
Rated current 1	18,5 A	24,7 A	29,5 A	33,3 A
Fuse 1	20 A	25 A	32 A	35 A
Frequency 1	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Rated voltage 2	400 V	400 V	400 V	400 V
Rated output 2	13,5 kW	18 kW	21 kW	24 kW
Rated current 2	19,5 A	26 A	31 A	35 A
Fuse 2	20 A	25 A	32 A	35 A
Frequency 2	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Phases	3/PE	3/PE	3/PE	3/PE
Temperature adjustment	42/55 °C	42/55 °C	42/55 °C	42/55 °C
Specific resistance ρ_{15} ≥ (at ϑcold ≤25 °C and 380 V)	1100 Ω cm	1100 Ω cm	1100 Ω cm	1100 Ω cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤25 °C and 380 V)	900 µS/cm	900 µS/cm	900 µS/cm	900 µS/cm
Specific resistance ρ_{15} ≥ (at ϑcold ≤25 °C and 400 V)	1100 Ω cm	1100 Ω cm	1100 Ω cm	1100 Ω cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤25 °C and 400 V)	900 µS/cm	900 µS/cm	900 µS/cm	900 µS/cm
Energy efficiency class	A	A	A	A
IP-Rating	IP25	IP25	IP25	IP25
Colour	white	white	white	white
Weight	3.6 kg	3.6 kg	3.6 kg	3.6 kg

Comfort instantaneous water heater
SELECT comfort instantaneous water heater

PHB

PHB

Instantaneous water heater, hydraulically controlled, for supplying washbasin, kitchen sink, shower or bath tub. Heat exchanger made from glass fibre reinforced polyamide, internal indirect coils immersed directly in water. Output switching via differential pressure switch. Safety shutdown via pressure limiter. Output switching with 2 automatic and 2 manual output stages for 1/3, 1/2, 2/3 and 1/1 of the maximum output. Universal water connection for remote and direct draw-off. For connecting to VPE plastic pipes with DVGW test mark. Oversink installation. With installation template. Quality and safety symbols: CE mark, VDE / GS symbol, EMI symbol / EMC.

- Hydraulically controlled
- 4 output stages - 2 manually selectable, 2 hydraulically controlled, depending on flow rate
- Bare wire heating system resistant to scale build-up for rapid heat-up
- Quick and easy installation

Part No.	Model	Rated output	Height	Width	Depth
233998	PHB 13		485 mm	226 mm	93 mm
233999	PHB 18		485 mm	226 mm	93 mm
234000	PHB 21		485 mm	226 mm	93 mm
234001	PHB 24		485 mm	226 mm	93 mm

Specification

Model	PHB 13	PHB 18	PHB 21	PHB 24
Rated voltage 1	380 V	380 V	380 V	380 V
Rated voltage 2	400 V	400 V	400 V	400 V
Rated output 1	12,2 kW	16,2 kW	19 kW	21,7 kW
Rated output 2	13,5 kW	18 kW	21 kW	24 kW
Rated output 400 V stage I min.	4.6 kW	6.3 kW	7.4 kW	8.3 kW
Rated output 400 V stage I max.	10.6 kW	14.3 kW	16.8 kW	19 kW
Rated output 400 V stage II min.	6.8 kW	9.2 kW	10.8 kW	12.2 kW
Rated output 400 V stage II max.	13.5 kW	18 kW	21 kW	24 kW
Rated current 1	18,5 A	24,7 A	29,5 A	33,3 A
Rated current 2	19,5 A	26 A	31 A	35 A
Fuse 1	20 A	25 A	32 A	35 A
Fuse 2	20 A	25 A	32 A	35 A
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Phases	3/PE	3/PE	3/PE	3/PE
Specific resistance ρ_{15} ≥ (at ϑcold ≤25 °C)	900 Ω cm	900 Ω cm	900 Ω cm	900 Ω cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤25 °C)	1111 µS/cm	1111 µS/cm	1111 µS/cm	1111 µS/cm
Energy efficiency class	A	A	A	A
IP-Rating	IP25	IP25	IP25	IP25
Colour	white	white	white	white
Weight	3.6 kg	3.6 kg	3.6 kg	3.6 kg

Comfort instantaneous water heater

Comfort instantaneous water heaters with full electronic control

DHE

COMFORT INSTANTANEOUS WATER HEATERS WITH FULL ELECTRONIC CONTROL

NEW

DHE

APPLICATION: Comfort instantaneous water heater suitable for DHW supply to multiple draw-off points (single and group supply), e.g. simultaneous supply to the bathroom and kitchen. Sealed unvented, pressure-tested appliance for use with all commercially available pressure taps.

EQUIPMENT/CONVENIENCE: Instantaneous water heater with full electronic control and 4i technology. Accurate temperature delivery at all times thanks to electronic flow rate control. Variable, digital temperature selection via rotary selector, temperature adjustment in 0.5 °C increments. Backlit multifunction display to show values such as set temperature, current power consumption, energy consumption, flow rate, time, status and service information. ECO button. Two temperature memory buttons for programmable preferred temperatures. Four wellness shower programs, automatic bath filling. LED scalding risk indicator at temperatures above 43 °C or unexpectedly high outlet temperatures caused by preheated water; displays the inlet temperature in the lower section. Individually adjustable temperature limit (childproofing). Optional convenient remote control available. Rotatable appliance cover and programming unit for increased operating convenience in undersink installations.

EFFICIENCY: Energy and water savings of up to 30 % through full electronic output control with 4i technology. 3 sensors and an additional motorised valve ensure accurate temperature delivery at all times. For this, only the amount of energy actually required is expended; there is no need to add cold water at the tap. This ensures maximum energy efficiency. ECO mode can be individually selected for particularly economical operation. Transparent energy and water consumption. Suitable for preheated water (e.g. in solar thermal and heat pump systems).

PROFI-RAPID INSTALLATION: PROFI-RAPID – The improved installation system for even quicker and simpler installation. Easy replacement of all conventional instantaneous water heaters. Easy wall mounting: Universal mounting rail with integrated compensation for unevenness in the wall and drill hole discrepancies; designed to match commonly used fixing points. Fast and universal water connection: Enlarged installation area with pivoting cold water inlet, threaded water fittings, twin nipple technology for easy replacement, installation on finished/unfinished walls with 3-way shut-off, suitable for plastic pipes (observe manufacturer's instructions). Straightforward electrical connection: From above or below; cable entry gland for cable.

PROFI-DIRECT: Fault memory can be called up on the display for fault analysis, plus LED diagnostic traffic lights. Inner assembly can be removed using the handle.

SAFETY: Rapid bare wire heating system, suitable for hard and soft water. Electronic safety concept with air bubble detection. Anti-scalding protection adjustable only by qualified contractors, for permanent limiting of the water outlet temperature to max. 43, 50 or 55 °C.

- Fully electronic output control with 4i technology for maximum energy efficiency and permanently accurate temperature delivery
- Maximum energy efficiency through selectable ECO mode
- Large, backlit multifunction display
- Internal temperature limit can be adjusted to 55, 50 or 43 °C by the qualified contractor; temperature limit (childproofing) can be selected by the user
- Display of consumption for optimum cost transparency
- Two temperature memory buttons for quick temperature selection
- Pivoting appliance cover and programming unit for increased operating convenience on undersink installations
- Quick PROFI-RAPID installation
- Suitable for reheating preheated water up to 55 °C (maximum inlet temperature 70 °C)
- Extensive range of convenience and safety functions
- Selectable output 18/21/24 kW in a single appliance

Part No.	Model	Rated output	Height	Width	Depth
202656	DHE 18/21/24	18/21/24 kW	466 mm	225 mm	116 mm
202657	DHE 27	27 kW	466 mm	225 mm	116 mm

Available from July 2020

Specification

Model	DHE 18/21/24	DHE 27
Rated voltage	400 V	400 V
Phases	3/PE	3/PE
Frequency	50/60 Hz	50/- Hz
Rated current	29/31/35 A	39 A
Fuses	32/32/35 A	40 A
Temperature adjustment	Off, 20-60 °C	Off, 20-60 °C
Specific conductivity σ15 ≤	1111 µS/cm	1111 µS/cm
Specific resistance ρ15 ≥	900 Ω cm	900 Ω cm
Energy efficiency class	A	A
Colour	white	white
IP-Rating	IP25	IP25
Weight	3.1 kg	3.1 kg

Comfort instantaneous water heater
Electronically controlled comfort instantaneous water heaters

DEL Plus

ELECTRONICALLY CONTROLLED COMFORT INSTANTANEOUS WATER HEATERS

DEL Plus

APPLICATION: DEL Plus is suitable for supplying DHW to several draw-off points (single and group supply), e.g. simultaneous supply to bathroom and kitchen. Sealed unvented, pressure-tested appliance for use with all commercially available pressure taps.

EQUIPMENT / CONVENIENCE: Electronically controlled instantaneous water heater with 3i technology. Accurate temperature delivery up to the maximum output. Temperature selection from 30 to 60 °C via rotary selector, temperature adjustment for showers in 0.5 °C increments (35 - 43 °C). Backlit multifunction display to show set temperature, current power consumption, status and service indication. Selectable ECO mode. Memory function for 2 programmable temperatures of choice. LED scalding risk indicator at temperatures above 43 °C or when outlet temperatures are unexpectedly high due to preheated water. Individually adjustable temperature limit (childproofing). Pivoting appliance cover and programming unit for increased operating convenience in undersink installations.

EFFICIENCY: Saves up to 30 % energy and water by means of electronic output control with 3i technology. 3 sensors ensure that the selected temperature is accurately achieved. For this, only the actual required amount of energy is expended; there is no need to add cold water at the tap. This ensures maximum energy efficiency. ECO mode can be individually selected for particularly economical operation. Suitable for preheated water (e.g. in solar thermal and heat pump systems).

PROFI-RAPID INSTALLATION: PROFI-RAPID – The improved installation system for even quicker and simpler installation. Easy replacement of all conventional instantaneous water heaters. Easy wall mounting: Universal mounting rail with integrated compensation for unevenness in the wall and drill hole discrepancies; matched to suit commonly used fixing points. Quick and universal water connection: Enlarged installation area with pivoting cold water inlet, threaded water fittings, twin connector technology for easy replacement, surface/flush mounting with 3-way shut-off, suitable for plastic pipes (observe manufacturer's instructions). Straightforward electrical connection: Electrical connection can be made from above or below; cable entry gland for cable. Adjustable output 18/21/24 kW in a single appliance. Protection rating IP 25 (hoseproof).

SERVICE: Fault analysis through LED diagnostic traffic light and fault memory which can be called up on the display. Internal assembly can be removed in a single step.

SAFETY: Rapid bare wire heating system, suitable for hard and soft water. Electronic safety concept with air bubble detection. Anti-scalding protection adjustable only by qualified contractors, for permanent limiting of the water outlet temperature to max. 43 °C.

- Electronic output control with 3i technology for maximum energy efficiency and accurate temperature delivery
- Three-stage ECO mode with flow limitation to 8, 7 or 6 litres for increased DHW convenience and greater energy savings
- Backlit multi-function display
- Temperature memory keys (memory function)
- Internal temperature limit can be adjusted to 55, 50 or 43 °C by the qualified contractor; temperature limit (childproofing) can be selected by the user
- Quick PROFI-RAPID installation
- Suitable for reheating preheated water up to 55 °C (maximum inlet temperature 70 °C)
- Pivoting appliance cover and programming unit for increased operating convenience on undersink installations
- Selectable output 18/21/24 kW in a single appliance

Part No.	Model	Rated output	Height	Width	Depth
236739	DEL 18/21/24 Plus	18/21/24 kW	466 mm	225 mm	116 mm
236740	DEL 27 Plus	27 kW	466 mm	225 mm	116 mm

Specification

Model	DEL 18/21/24 Plus	DEL 27 Plus
Rated voltage	400 V	400 V
Phases	3/PE	3/PE
Frequency	50/60 Hz	50/- Hz
Rated current	29/31/35 A	39 A
Fuses	32/32/35 A	40 A
Temperature adjustment	Off, 20-60 °C	Off, 20-60 °C
Specific conductivity σ15 ≤	1111 µS/cm	1111 µS/cm
Specific resistance ρ15 ≥	900 Ω cm	900 Ω cm
Energy efficiency class	A	A
Colour	white	white
IP-Rating	IP25	IP25
Weight	3.10 kg	3.10 kg

Comfort instantaneous water heater
Electronically controlled comfort instantaneous water heaters

DHB-E LCD

DHB-E LCD

APPLICATION: DHB-E LCD is suitable for DHW supply to multiple draw-off points (single and group supply), e.g. simultaneous supply to the bathroom and kitchen. DHB-E 11/13 LCD: Suitable for the kitchen sink. Sealed unvented, pressure-tested appliance for use with all commercially available pressure taps.

EQUIPMENT/CONVENIENCE: Electronically controlled instantaneous water heater with 3i technology. Accurate temperature delivery up to the maximum output. Temperature selection from 20 to 60 °C; infinitely variable manual temperature adjustment via rotary selector. LCD with temperature display. Optional convenient remote control available. Rotatable appliance cover and programming unit for increased operating convenience on undersink installations.

EFFICIENCY: Energy and water savings of up to 30 % through electronic output control with 3i technology. 3 sensors ensure that the selected temperature is accurately achieved. For this, only the actual required amount of energy is expended; there is no need to add cold water at the tap. This ensures maximum energy efficiency. Suitable for preheated water (e.g. in solar thermal and heat pump systems).

PROFI-RAPID INSTALLATION: PROFI-RAPID - The improved installation system for even quicker and simpler installation. Easy replacement of all conventional instantaneous water heaters. Easy wall mounting: Universal mounting rail with integrated compensation for unevenness in the wall and drill hole discrepancies; matched to suit commonly used fixing points. Quick and universal water connection: Enlarged installation area with pivoting cold water inlet, threaded water fittings, twin connector technology for easy replacement, surface/flush mounting with 3-way shut-off, suitable for plastic pipes (observe manufacturer's instructions). Straightforward electrical connection: Electrical connection can be made from above and below; cable entry gland for cable. Selectable output. Protection rating IP 25 (hoseproof).

SERVICE: Fault analysis with LED diagnostic traffic lights. Internal assembly can be removed with just one hand movement.

SAFETY: Quick-action bare wire heating system, ideal for hard and soft water. Electronic safety concept with air bubble detection. Anti-scalding protection adjustable only by qualified contractors, for permanent limiting of the water outlet temperature to max. 43 °C.

- Electronic output control with 3i technology for maximum energy efficiency and accurate temperature delivery
- LCD with temperature display
- Accurate temperature selection via rotary selector in 1 °C increments
- Anti-scalding protection thanks to permanent limit to 43 °C, 50 °C or 55 °C
- Suitable for reheating preheated water up to 55 °C (maximum inlet temperature 70 °C)
- Pivoting appliance cover and programming unit for increased operating convenience on undersink installations
- Quick PROFI-RAPID installation
- Optional wireless remote control

Part No.	Model	Rated output	Height	Width	Depth
236743	DHB-E 11/13 LCD	11/13,5 kW	466 mm	225 mm	116 mm
236744	DHB-E 18 LCD 25A	18 kW	466 mm	225 mm	116 mm
236745	DHB-E 18/21/24 LCD	18/21/24 kW	466 mm	225 mm	116 mm
236746	DHB-E 27 LCD	27 kW	466 mm	225 mm	116 mm

Specification

Model	DHB-E 11/13 LCD	DHB-E 18 LCD 25A	DHB-E 18/21/24 LCD	DHB-E 27 LCD
Rated voltage	400 V	400 V	400 V	400 V
Phases	3/PE	3/PE	3/PE	3/PE
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/- Hz
Rated current	17,5/19,5 A	26 A	29/31/35 A	39 A
Fuses	20 A	25 A	32/32/35 A	40 A
Temperature adjustment	Off, 20-60 °C	Off, 20-60 °C	Off, 20-60 °C	Off, 20-60 °C
Specific conductivity σ15 ≤	1111 µS/cm	1111 µS/cm	1111 µS/cm	1111 µS/cm
Specific resistance ρ15 ≥	900 Ω cm	900 Ω cm	900 Ω cm	900 Ω cm
Energy efficiency class	A	A	A	A
Colour	white	white	white	white
IP-Rating	IP25	IP25	IP25	IP25
Weight	2.8 kg	2.9 kg	2.9 kg	2.9 kg

Comfort instantaneous water heater
Electronically controlled comfort instantaneous water heaters

FFB 4 Set

Remote controls for comfort instantaneous water heaters

FFB 4 EU enables the comfortable operation of the listed comfort instantaneous water heater models. FFB 4 Set EU as starter set incl. receiver module. FFB 4 EU as additional remote control. The wireless remote control can be sited anywhere, e.g. in a bathroom or kitchen, using a wall mounting bracket. The receiver module is installed in the appliance. Equipped with a large, easy-to-read LC display, memory function for 2 programmable desired temperatures. Temperature adjustment from 20 - 60 °C. Power save mode for longer battery life. IP rating: IP x7. Standard delivery: Remote control incl. battery (CR2023), wall bracket, receiver module (only for FFB 4 Set EU).

- Additional wireless remote control with a large LCD
- Variable temperature selection from 20 °C to 60 °C
- FFB 4 Set EU incl. receiver module for initial equipment
- FFB 4 EU as 2. or additional remote control

Part No.	Model
238930	FFB 4 Set EU
234478	FFB 4 EU

Zuordnung der Funkfernbedienungen für Komfort-Durchlauferhitzer

	FFB 4 Set EU	FFB 4 EU
Typ	**238930**	**234478**
DHE	•	•
DEL Plus	•	•
DHB-E LCD	•	•

Comfort instantaneous water heater
Electronically controlled comfort instantaneous water heaters

HDB-E Si

ELECTRONICALLY CONTROLLED COMFORT INSTANTANEOUS WATER HEATERS

HDB-E Si

APPLICATION: Suitable for supplying several draw-off points (single and group supply), e.g. simultaneous provision for bathrooms and kitchen. Sealed unvented, pressure-tested appliance for use with all commercially available pressure taps.
EQUIPMENT / CONVENIENCE: Electronically controlled instantaneous water heater with 2i technology. Constant DHW temperature up to the maximum output. DHW temperature permanently set to 55 °C.
EFFICIENCY: Electronic output control with 2i technology. 2 sensors ensure that the selected temperature level is achieved. For this, only the amount of energy actually required is expended. This results in high energy efficiency.
PROFI-RAPID INSTALLATION: PROFI-RAPID installation system for time-saving and straightforward installation. Easy replacement with all common instantaneous water heaters. Easy wall mounting: Universal mounting rail with integrated compensation for unevenness in the wall and drill hole discrepancies; matched to suit commonly used fixing points. Quick and universal water connection: Freely accessible and generous installation area for threaded water fittings, twin connector technology for easy replacement, suitable for finished and unfinished walls with 3-way shut-off valves, suitable for plastic pipes (observe manufacturer's specification); various flow restrictors supplied. Easy electrical connection: Electrical connection can be made from above or below, cable entry gland for power cable. IP25 (hoseproof). Fault analysis with LED diagnostic lights. Back panel and complete internal assembly can be removed in one step.
SAFETY: Quick-action bare wire heating system, equally suitable for hard and soft water. Multi-stage safety concept, comprising high limit temperature switch, high pressure switch and electronic air detection system.

- Electronic output control with 2i technology for high energy efficiency and consistent DHW temperature
- Temperature set permanently to 55°C
- Quick PROFI-RAPID installation
- Electronic air detection system

Part No.	Model	Rated output	Height	Width	Depth
232003	HDB-E 12 Si	10,7 kW	470 mm	225 mm	117 mm
232004	HDB-E 18 Si	18 kW	470 mm	225 mm	117 mm
232005	HDB-E 21 Si	21 kW	470 mm	225 mm	117 mm
232006	HDB-E 24 Si	24 kW	470 mm	225 mm	117 mm

Specification

Model	HDB-E 12 Si	HDB-E 18 Si	HDB-E 21 Si	HDB-E 24 Si
Rated voltage 1	380 V	380 V	380 V	380 V
Rated output 1	9,7 kW	16,2 kW	19 kW	21,7 kW
Rated current 1	14,4 A	24,7 A	29,5 A	33,3 A
Fuse 1	16 A	25 A	32 A	35 A
Frequency 1	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Rated voltage 2	400 V	400 V	400 V	400 V
Rated output 2	10,7 kW	18 kW	21 kW	24 kW
Rated current 2	15,5 A	26 A	31 A	35 A
Fuse 2	16 A	25 A	32 A	35 A
Frequency 2	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Phases	3/PE	3/PE	3/PE	3/PE
Temperature adjustment	55 °C	55 °C	55 °C	55 °C
Specific resistance ρ_{15} ≥ (at ϑcold ≤35 °C and 380 V)	≥1100 Ω cm	≥1100 Ω cm	≥1100 Ω cm	≥1100 Ω cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤35 °C and 380 V)	≤910 µS/cm	≤910 µS/cm	≤910 µS/cm	≤910 µS/cm
Specific resistance ρ_{15} ≥ (at ϑcold ≤35 °C and 400 V)	≥1100 Ω cm	≥1100 Ω cm	≥1100 Ω cm	≥1100 Ω cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤35 °C and 400 V)	≤910 µS/cm	≤910 µS/cm	≤910 µS/cm	≤910 µS/cm
Energy efficiency class	A	A	A	A
IP-Rating	IP25	IP25	IP25	IP25
Colour	white	white	white	white
Weight	3.50 kg	3.6 kg	3.6 kg	3.6 kg

Comfort instantaneous water heater
Special taps for comfort instantaneous water heater

MEK/MEKD

MEB/MEBD

SPECIAL TAPS FOR COMFORT INSTANTANEOUS WATER HEATER

Mono lever pressure taps for instantaneous water heaters

Mono lever wall mounted tap (pressure-tested), chrome metal lever, brass body, chrome finish. Cold water supply either via instantaneous water heater or tap connection.

- Mono lever mixer tap (pressure-tested)
- Applicable for DHE, DEL, DHB-E, DHB-ST, HDB-E, DHF-C
- MEKD equipped with pivoting spout

Part No.	Model	Application	Type
232613	MEKD	Kitchen	sealed
232614	MEBD	Shower/ bath	sealed

Specification

Model	MEKD	MEBD
Type of installation	Wall mounted mixer tap	Wall mounted mixer tap
Connection	Brass pipes	Brass pipes
Surface	chrome finish	chrome finish
Water connection	G ½	G ½

Comfort instantaneous water heater
Accessories for comfort instantaneous water heater

ACCESSORIES FOR COMFORT INSTANTANEOUS WATER HEATER

LR-1-A

Automatic maximum demand controller

LR-1-A for instantaneous water heaters up to 27 kW. Automatic load shedding relay for priority control, e.g. in conjunction with electric storage heaters or to interlock two instantaneous water heaters against each other.

› Installed dim. = each section in accordance with DIN 43880

Part No.	Model
001786	LR-1-A

ZTA ¾

Central thermostatic valve

Thermostatic valve for centralised premixing, e.g. DHW in conjunction with a solar heating system.

Part No.	Model	Water connection
073864	ZTA ¾	G ¾ A

Compact instantaneous water heater
Electronically controlled compact instantaneous water heaters

DCE 11/13 compact RC

DCE 11/13

ELECTRONICALLY CONTROLLED COMPACT INSTANTANEOUS WATER HEATERS

DCE compact

APPLICATION: Space saving DCE compact instantaneous water heater, especially suitable for kitchen sinks or for medium DHW convenience at washbasins and hand washbasins. In commercial settings, for utility rooms or for multiple hand washbasins in public sanitary facilities. International: Also suitable for showers with inlet temperatures higher than 20 °C. Exceptionally slim; less than 10 cm installed depth.

EQUIPMENT/CONVENIENCE: Electronically controlled compact instantaneous water heater with 3i technology. Accurate temperature delivery up to the maximum output. Very rapid DHW heating and high temperature stability due to bare wire heating system. Selectable connected load 11 kW or 13.5 kW. With power cable as standard. Accurate temperature selection via controls, for DHW heating from 20-60 °C. Rotary temperature selector on the appliance, with the DCE 11/13. Wireless remote control with memory function for 2 preprogrammed preferred temperatures plus practical wall mounting bracket with the DCE 11/13 RC.

EFFICIENCY: Energy and water savings of up to 30 % due to electronic output control with 3i technology. 3 sensors ensure that the selected temperature is accurately achieved. For this, only the actual required amount of energy is expended; there is no need to add cold water at the tap. DHW is heated in close proximity to the draw-off point, no thermal losses in the cylinder or pipework. Suitable for water preheated up to 70 °C.; water preheated to 55 °C can be reheated with the instantaneous water heater.

PROFI-RAPID INSTALLATION: Straightforward, stable wall mounting: Direct fitting through the appliance back panel enables easy compensation of any unevenness in the wall and drill hole discrepancies. Existing fixing points for commonly available small water heaters can still be used. Appliance cover easy to open due to locking hooks. Quick, universal and external water connection: 3/8“ water connections at the top for direct installation with a non-pressurised or pressure-tested tap. Can be installed with plastic pipe systems. Easy electrical connection: Power cable prepared for permanent connection as standard, upward cable routing avoids cabling in visible lower areas. Adjustable output, can be set internally to 11 or 13.5 kW. Protection rating IP 24. Fault analysis with LED diagnostic display. Internal assembly can be completely removed from the back panel without tools.

SAFETY: Bare wire heating system suitable for hard and soft water. Anti-scalding protection can be activated internally to limit the water temperature to 43 °C. Multi stage electronic safety system, comprising high limit safety switch, sensor controlled monitoring of radiator temperature and air detection system.

- Exceptionally flat compact design
- Particularly convenient and energy efficient thanks to electronic output control with 3i technology
- Quick PROFI-RAPID installation
- Multi stage electric safety concept
- Selectable connected load 11 kW or 13.5 kW
- Can be operated with pressurised and non-pressurised taps

Part No.	Model	Rated output	Height	Width	Depth
230771	DCE 11/13 compact RC	11/13,5 kW	293 mm	188 mm	85 mm
230770	DCE 11/13	11/13,5 kW	293 mm	188 mm	85 mm

D = 99 mm above operating button

Compact instantaneous water heater

Electronically controlled compact instantaneous water heaters

Specification

Model	DCE 11/13 compact RC	DCE 11/13
Rated voltage 1	380 V	380 V
Rated output 1	10,1/12,2 kW	10,1/12,2 kW
Rated current 1	17,8/18,5 A	17,8/18,5 A
Fuse 1	16/20 A	16/20 A
Frequency 1	50/60 Hz	50/60 Hz
Rated voltage 2	400 V	400 V
Rated output 2	11,2/13,5 kW	11,2/13,5 kW
Rated current 2	18,7/19,5 A	18,7/19,5 A
Fuse 2	16/20 A	16/20 A
Frequency 2	50/60 Hz	50/60 Hz
Rated voltage 3	415 V	415 V
Rated output 3	12,1/14,5 kW	12,1/14,5 kW
Rated current 3	19,4/20,2 A	19,4/20,2 A
Fuse 3	20/20 A	20/20 A
Frequency 3	50/- Hz	50/- Hz
Phases	3/PE	3/PE
Temperature adjustment	20-60 °C	20-60 °C
Specific resistance ρ_{15} ≥ (at ϑcold ≤25 °C and 380 V)	900 Ω cm	900 Ω cm
Specific resistance ρ_{15} ≥ (at ϑcold ≤25 °C and 400 V)	900 Ω cm	900 Ω cm
Specific resistance ρ_{15} ≥ (at ϑcold ≤25 °C and 415 V)	900 Ω cm	900 Ω cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤25 °C and 380 V)	1111 µS/cm	1111 µS/cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤25 °C and 400 V)	1111 µS/cm	1111 µS/cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤25 °C and 415 V)	1111 µS/cm	1111 µS/cm
Specific resistance ρ_{15} ≥ (at ϑcold ≤55 °C and 380 V)	1100 Ω cm	1100 Ω cm
Specific resistance ρ_{15} ≥ (at ϑcold ≤55 °C and 400 V)	1100 Ω cm	1100 Ω cm
Specific resistance ρ_{15} ≥ (at ϑcold ≤55 °C and 415 V)	1100 Ω cm	1100 Ω cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤55 °C and 380 V)	909 µS/cm	909 µS/cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤55 °C and 400 V)	909 µS/cm	909 µS/cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤55 °C and 415 V)	909 µS/cm	909 µS/cm
Energy efficiency class	A	A
Colour	white	white
IP-Rating	IP24	IP24
Weight	2.40 kg	2.10 kg

Compact instantaneous water heater
Electronically controlled compact instantaneous water heaters

DCE 11/13 H

DCE compact H

APPLICATION: Space efficient DCE H compact instantaneous water heater for oversink installation, in particular for kitchen sinks. In cleaning rooms of commercial properties, e.g. above utility sinks. International: Also suitable for showers with inlet temperatures higher than 20 °C. Exceptionally slim; less than 10 cm installed depth.

EQUIPMENT/CONVENIENCE: Electronically controlled compact instantaneous water heater with 3i technology. Accurate temperature delivery up to the maximum output. Very rapid DHW heating and high temperature stability due to bare wire heating system. Selectable connected load 11 kW or 13.5 kW. With power cable as standard. DHW heating from 20 - 60 °C; accurate temperature adjustment via rotary temperature selector on the appliance.

EFFICIENCY: Energy and water savings of up to 30 % due to electronic output control with 3i technology. 3 sensors ensure that the selected temperature is accurately achieved. For this, only the actual required amount of energy is expended; there is no need to add cold water at the tap. DHW is heated in close proximity to the draw-off point, no thermal losses in the cylinder or pipework. Suitable for water preheated up to 70 °C; water preheated up to 55 °C can be reheated with the instantaneous water heater.

PROFI-RAPID INSTALLATION: Straightforward, stable wall mounting: Direct fitting through the appliance back panel enables easy compensation of any unevenness in the wall and drill hole discrepancies. Appliance cover easy to open due to locking hooks. Quick, universal and external water connection: G 1/2 A water connections at the bottom for direct installation with a non-pressurised or pressure-tested tap. Easy electrical connection: Power cable prepared for permanent connection as standard, upward cable routing avoids cabling in visible lower areas. Adjustable output, can be set internally to 11 or 13.5 kW. Protection rating IP 24. Fault analysis with LED diagnostic display. Internal assembly can be completely removed from the back panel without tools.

SAFETY: Bare wire heating system suitable for hard and soft water. Anti-scalding protection can be activated internally to limit the water temperature to 43 °C. Multi stage electronic safety system, comprising high limit safety switch, sensor controlled monitoring of radiator temperature and air detection system.

- Exceptionally flat compact design
- Particularly convenient and energy efficient thanks to electronic output control with 3i technology
- Oversink installation
- Quick PROFI-RAPID installation
- Multi stage electric safety concept
- Selectable connected load 11 kW or 13.5 kW
- With power cable as standard

Part No.	Model	Rated output	Height	Width	Depth
232792	DCE 11/13 H	11,2/13,5 kW	293 mm	188 mm	85 mm

D = 100 mm above operating button

Compact instantaneous water heater

Electronically controlled compact instantaneous water heaters

Specification

Model	DCE 11/13 H
Rated voltage 1	380 V
Rated output 1	10,1/12,2 kW
Rated current 1	17,8/18,5 A
Fuse 1	16/20 A
Frequency 1	50/60 Hz
Rated voltage 2	400 V
Rated output 2	11,2/13,5 kW
Rated current 2	18,7/19,5 A
Fuse 2	16/20 A
Frequency 2	50/60 Hz
Rated voltage 3	415 V
Rated output 3	12,1/14,5 kW
Rated current 3	19,4/20,2 A
Fuse 3	20/20 A
Frequency 3	50/- Hz
Phases	3/PE
Temperature adjustment	20-60 °C
Specific resistance ρ_{15} ≥ (at ϑcold ≤25 °C and 380 V)	900 Ω cm
Specific resistance ρ_{15} ≥ (at ϑcold ≤25 °C and 400 V)	900 Ω cm
Specific resistance ρ_{15} ≥ (at ϑcold ≤25 °C and 415 V)	900 Ω cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤25 °C and 380 V)	1111 µS/cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤25 °C and 400 V)	1111 µS/cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤25 °C and 415 V)	1111 µS/cm
Specific resistance ρ_{15} ≥ (at ϑcold ≤55 °C and 380 V)	1100 Ω cm
Specific resistance ρ_{15} ≥ (at ϑcold ≤55 °C and 400 V)	1100 Ω cm
Specific resistance ρ_{15} ≥ (at ϑcold ≤55 °C and 415 V)	1100 Ω cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤55 °C and 380 V)	909 µS/cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤55 °C and 400 V)	909 µS/cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤55 °C and 415 V)	909 µS/cm
Energy efficiency class	A
Colour	white
IP-Rating	IP24
Weight	2.20 kg

DCE 11/13 H + MEKD

DCE compact H with tap

Type and technical equipment equivalent to DCE 11/13 H, but as part of a complete pack with a special mono-lever pressure-tested tap MEKD for instantaneous water heaters.

Part No.	Model	Rated output	Height	Width	Depth
232794	DCE 11/13 H + MEKD	11/13 kW	293 mm	188 mm	85 mm

Compact instantaneous water heater
Electronically controlled compact instantaneous water heaters

DCE-X Premium

DCE-X Premium

APPLICATION: DCE-X Premium is a space saving compact instantaneous water heater for DHW supply to single or multiple draw-off points, e.g., shower, kitchen sink, washbasin, or hand washbasin. In commercial settings, for utility rooms or for multiple hand washbasins in public sanitary facilities. Sealed unvented, pressure-tested appliance for use with all commercially available pressure taps.

EQUIPMENT/CONVENIENCE: Fully electronically controlled, compact instantaneous water heater with 4i technology. Guaranteed accurate temperature delivery at all times thanks to electronic flow meter. Temperature selection from 20 - 60 °C (68 - 140 °F) via rotary selector. Variable temperature adjustment in 0.5 °C/1 °F steps. Large, white backlit multifunction display to show set temperature, current power consumption, energy consumption, flow rate, time, status and service information. Memory function for 2 programmable preferred temperatures, wide range of comfort functions such as Wellness programs and automated bath filling. Individually adjustable temperature limit (childproofing). LED indicator provides information about the heating operation. Key lock prevents unintentional adjustment.

EFFICIENCY: Energy and water savings of up to 30 % through full electronic output control with 4i technology. 3 sensors and an additional motorised valve ensure accurate temperature delivery. For this, only the actual required amount of energy is expended; there is no need to add cold water at the tap. This ensures maximum energy efficiency. No cylinder or line losses. Consumption indicator. ECO mode can be individually selected for particularly economical operation. Suitable for preheated water (e.g. in solar thermal and heat pump systems).

INSTALLATION/SERVICE: PROFI-RAPID installation system for time saving, straightforward installation. Straightforward, stable wall mounting: Direct fitting through the appliance back panel enables easy compensation of drill hole discrepancies. Appliance cover easy to open thanks to central screw. Fast, universal water connection: 1/2“ brass water connections, located at bottom for installation on finished walls. Installation on unfinished walls for non-visible water connections is possible with optional accessories. Suitable for plastic pipes (observe manufacturer‘s instructions). Straightforward and flexible electrical connection: Electrical connection at the bottom or top of unfinished walls. Electrical connection at the bottom or side on finished walls. Selectable output can be adjusted internally. Protection rating IP 25 (hoseproof). Fault memory can be called up on the display for fault analysis, plus LED diagnostic traffic lights. Complete inner assembly can be removed from the back panel.

SAFETY: Rapid bare wire heating system, suitable for hard and soft water. Multi-stage electronic safety concept with air bubble detection. Internally adjustable static temperature limiting to max. 43 °C, 50 °C or 55 °C.

- Fully electronic compact instantaneous water heater with 4i technology for maximum energy efficiency and accurate temperature delivery at all times
- Large illuminated multifunction display for easy operation
- ECO mode for extremely energy efficient operation
- Full transparency thanks to water and power consumption indicator
- High quality design | Made in Germany
- Two temperature memory keys
- Extensive range of convenience and safety functions
- Quick PROFI-RAPID installation
- Selectable output can be adjusted internally
- Suitable for reheating preheated water up to 55 °C (maximum inlet temperature 70 °C)

Part No.	Model	Rated output	Height	Width	Depth
238158	DCE-X 6/8 Premium	6,0/8,0 kW	372 mm	217 mm	109 mm
238159	DCE-X 10/12 Premium	10,0/12,0 kW	372 mm	217 mm	109 mm

Expected to be available from June 2019

Compact instantaneous water heater

Electronically controlled compact instantaneous water heaters

Specification

Model	DCE-X 6/8 Premium	DCE-X 10/12 Premium
Rated voltage 1	220 V	220 V
Rated output 1	6,0/8,0 kW	10,0/12,0 kW
Rated current 1	27,3/36,4 A	45,5/54,5 A
Fuse 1	30/40 A	50/50 A
Frequency 1	50/60 Hz	50/60 Hz
Rated voltage 2	230 V	230 V
Rated output 2	6,6/8,7 kW	11,0/13,1 kW
Rated current 2	28,5/38,0 A	47,8/57,0 A
Fuse 2	30/40 A	50/60 A
Frequency 2	50/60 Hz	50/60 Hz
Rated voltage 3	240 V	240 V
Rated output 3	7,2/9,6 kW	12,0/14,3 kW
Rated current 3	30,0/40,0 A	50,0/59,5 A
Fuse 3	30/40 A	50/60 A
Frequency 3	50/60 Hz	50/60 Hz
Phases	1/N/PE	1/N/PE
Temperature adjustment	Off, 20-60 °C	Off, 20-60 °C
Specific resistance ρ15 ≥	1100 Ω cm	1100 Ω cm
Specific conductivity σ15 ≤	910 µS/cm	910 µS/cm
Energy efficiency class	A	A
Colour	white	white
IP-Rating	IP25	IP25
Weight	2.5 kg	2.5 kg

Compact instantaneous water heater
Electronically controlled compact instantaneous water heaters

DCE-S Plus

DCE-S Plus

APPLICATION: DCE-S Plus is a space saving compact instantaneous water heater for DHW supply to single or multiple draw-off points, e.g., shower, kitchen sink, or washbasin and hand washbasin. In commercial settings, for utility rooms or for multiple hand washbasins in public sanitary facilities. Sealed unvented, pressure-tested appliance for use with all commercially available pressure taps.

EQUIPMENT/CONVENIENCE: Electronically controlled, compact instantaneous water heater with 3i technology. Accurate temperature delivery up to the maximum output. Temperature selection from 20 - 60 °C (68 - 140 °F). Infinitely variable manual temperature adjustment via rotary selector.

EFFICIENCY: Energy and water savings of up to 30 % through electronic output control with 3i technology. 3 sensors ensure that the selected temperature is accurately achieved. For this, only the actual required amount of energy is expended; there is no need to add cold water at the tap. This ensures maximum energy efficiency. No cylinder or line losses. Suitable for preheated water (e.g. in solar thermal and heat pump systems).

INSTALLATION/SERVICE: PROFI-RAPID installation system for time saving, straightforward installation. Straightforward, stable wall mounting: Direct fitting through the appliance back panel enables easy compensation of drill hole discrepancies. Appliance cover easy to open thanks to central screw. Fast, universal water connection: 1/2“ brass water connections, located at bottom for installation on finished walls. Installation on unfinished walls for non-visible water connections is possible with optional accessories. Suitable for plastic pipes (observe manufacturer‘s instructions). Straightforward and flexible electrical connection: Electrical connection at the bottom or top of unfinished walls. Electrical connection at the bottom or side on finished walls. Selectable output can be adjusted internally. Protection rating IP 25 (hoseproof). Fault analysis with LED diagnostic traffic lights. Complete inner assembly can be removed from the back panel.

SAFETY: Rapid bare wire heating system, suitable for hard and soft water. Multi-stage electronic safety concept with air bubble detection. Internally adjustable static temperature limiting to max. 43 °C, 50 °C or 55 °C.

- Electronically controlled compact instantaneous water heater with 3i technology for maximum energy efficiency and accurate temperature delivery
- Infinitely variable temperature selection from 20 °C to 60 °C
- High quality design | Made in Germany
- Anti-scalding protection due to permanent limit to 43 °C
- Quick PROFI-RAPID installation
- Selectable output can be adjusted internally
- Suitable for reheating preheated water up to 55 °C (maximum inlet temperature 70 °C)

Part No.	Model	Rated output	Height	Width	Depth
238153	DCE-S 6/8 Plus	6,0/8,0 kW	372 mm	217 mm	109 mm
238154	DCE-S 10/12 Plus	10,0/12,0 kW	372 mm	217 mm	109 mm

Expected to be available from June 2019

Specification

Model	DCE-S 6/8 Plus	DCE-S 10/12 Plus
Rated voltage 1	220 V	220 V
Rated output 1	6,0/8,0 kW	10,0/12,0 kW
Rated current 1	27,3/36,4 A	45,5/54,5 A
Fuse 1	30/40 A	50/60 A
Frequency 1	50/60 Hz	50/60 Hz
Rated voltage 2	230 V	230 V
Rated output 2	6,6/8,7 kW	11,0/13,1 kW
Rated current 2	28,5/38,0 A	47,8/57,0 A
Fuse 2	30/40 A	50/60 A
Frequency 2	50/60 Hz	50/60 Hz
Rated voltage 3	240 V	240 V
Rated output 3	7,2/9,6 kW	12,0/14,3 kW
Rated current 3	30,0/40,0 A	50,0/59,5 A
Fuse 3	30/40 A	50/60 A
Frequency 3	50/60 Hz	50/60 Hz
Phases	1/N/PE	1/N/PE
Temperature adjustment	20-60 °C	20-60 °C
Specific resistance ρ15 ≥	1100 Ω cm	1100 Ω cm
Specific conductivity σ15 ≤	910 µS/cm	910 µS/cm
Energy efficiency class	A	A
Colour	white	white
IP-Rating	IP25	IP25
Weight	2.5 kg	2.5 kg

Compact instantaneous water heater
Electronically controlled compact instantaneous water heaters

DCE-C Trend

DCE-C Trend

APPLICATION: DCE-C Trend is a space saving compact instantaneous water heater for DHW supply to single or multiple draw-off points, e.g. shower, kitchen sink or washbasin and hand washbasin. In commercial settings, for utility rooms or for multiple hand washbasins in public sanitary facilities. Sealed unvented, pressure-tested appliance for use with all commercially available pressure taps.
EQUIPMENT/CONVENIENCE: Electronically controlled, compact instantaneous water heater with 2i technology. Consistent DHW temperature up to the maximum output. DHW temperature set permanently to 55 °C or 131 °F.
EFFICIENCY: PROFI-RAPID installation system for time saving, easy installation. Straightforward, stable wall mounting: Direct fitting through the appliance back panel enables easy compensation of drill hole discrepancies. Appliance cover easy to open thanks to central screw. Fast, universal water connection: 1/2“ brass water connections, located at the bottom for installation on finished walls. Installation on unfinished walls for non-visible water connections is possible with optional accessories. Suitable for plastic pipes (observe manufacturer‘s instructions). Straightforward and flexible electrical connection: Electrical connection at the bottom or top on unfinished walls. Electrical connection at the bottom or side on finished walls. Selectable output can be adjusted internally. Protection rating IP 25 (hoseproof). Fault analysis with LED diagnostic traffic lights. Complete inner assembly can be removed from the back panel.
INSTALLATION/SERVICE: PROFI-RAPID installation system for time saving, easy installation. Straightforward, stable wall mounting: Direct fitting through the appliance back panel enables easy compensation of drill hole discrepancies. Appliance cover easy to open thanks to central screw. Fast, universal water connection: 1/2“ brass water connections, located at the bottom for installation on finished walls. Installation on unfinished walls for non-visible water connections is possible with optional accessories. Suitable for plastic pipes (observe manufacturer‘s instructions). Straightforward and flexible electrical connection: Electrical connection at the bottom or top on unfinished walls. Electrical connection at the bottom or side on finished walls. Selectable output can be adjusted internally. Protection rating IP 25 (hoseproof). Fault analysis with LED diagnostic traffic lights. Complete inner assembly can be removed from the back panel.
SAFETY: Rapid bare wire heating system, suitable for hard and soft water. Multi stage electronic safety concept with air bubble detection.

- Electronically controlled compact instantaneous water heater with 2i technology for excellent energy efficiency and constant accurate temperature delivery
- Temperature set permanently to 55°C
- Quick PROFI-RAPID installation
- Selectable output can be adjusted internally
- High quality design | Made in Germany
- Suitable for reheating preheated water up to 55 °C (maximum inlet temperature 70 °C)

Part No.	Model	Rated output	Height	Width	Depth
238148	DCE-C 6/8 Trend	6,6/8,7 kW	372 mm	217 mm	98 mm
238149	DCE-C 10/12 Trend	11,0/13,1 kW	372 mm	217 mm	98 mm

Expected to be available from June 2019

Specification

Model	DCE-C 6/8 Trend	DCE-C 10/12 Trend
Rated voltage 1	220 V	220 V
Rated output 1	6,0/8,0 kW	10,0/12,0 kW
Rated current 1	27,3/36,4 A	45,5/54,5 A
Fuse 1	30/40 A	50/60 A
Frequency 1	50/60 Hz	50/60 Hz
Rated voltage 2	230 V	230 V
Rated output 2	6,6/8,7 kW	11,0/13,1 kW
Rated current 2	28,5/38,0 A	47,8/57,0 A
Fuse 2	30/40 A	50/60 A
Frequency 2	50/60 Hz	50/60 Hz
Phases	1/N/PE	1/N/PE
Temperature adjustment	55 °C	55 °C
Specific resistance ρ15 ≥	1100 Ω cm	1100 Ω cm
Specific conductivity σ15 ≤	910 µS/cm	910 µS/cm
Energy efficiency class	A	A
Colour	white	white
IP-Rating	IP25	IP25
Weight	2.5 kg	2.5 kg

Compact instantaneous water heater
Electronically controlled compact instantaneous water heaters

DHC-E 8/10

DHC-E

Sealed (pressure-tested) for supplying several draw-off points. The DHW temperature can be freely selected. Temperature can be selected accurately to the degree up to the output limit thanks to the automatic adjustment of the electrical output. The tubular heating system inside the pressure-tested copper cylinder is suitable for soft water areas (for application range, see specification). Flow limit. Installation with pressure taps. Threaded water connections

- Simple and secure operation
- Quick and easy installation
- Works even with low water pressure
- Use as a mains pressure appliance for several draw-off points or a shower
- EMC compliant

Part No.	Model	Rated output	Height	Width	Depth
224201	DHC-E 8/10	7,2/9,6 kW	360 mm	200 mm	110 mm
230628	DHC-E 12	12 kW	360 mm	200 mm	110 mm

Specification

Model	DHC-E 8/10	DHC-E 12
Rated voltage 1	208 V	208 V
Rated output 1	5,4/7,2 kW	9 kW
Rated current 1	28/35 A	44 A
Fuse 1	30/50 A	60 A
Rated voltage 2	220 V	220 V
Rated output 2	6,0/8,1 kW	10 kW
Rated current 2	30/50 A	46 A
Fuse 2	40/50 A	60 A
Rated voltage 3	230 V	230 V
Rated output 3	6,6/8,8 kW	11 kW
Rated current 3	31/39 A	48 A
Fuse 3	40/50 A	60 A
Phases	1/N/PE ~220-240V	1/N/PE ~220-240V
Frequency	50/60 Hz	50/60 Hz
Temperature adjustment	30-60 °C	30-60 °C
Energy efficiency class	A	A
IP-Rating	IP24	IP24
Colour	white	white
Weight	2.7 kg	2.7 kg

Compact instantaneous water heater
Hydraulically controlled compact instantaneous water heaters

DHF C compact control

HYDRAULICALLY CONTROLLED COMPACT INSTANTANEOUS WATER HEATERS

DHF C compact control

Unvented for supplying several draw-off points. The hydraulic control system regulates the electrical output automatically in two output stages, subject to the flow rate. When the trigger volume is exceeded, first the lower output stage is started (for smaller flow rates) then the higher stage (for higher flow rates). The tubular heater system inside the unvented copper cylinder can be used in soft water areas. Installation with pressure taps. UP/AP threaded water connections, three-way ball shut-off valve, connections for WKMD and WBMD surface mounted taps.

- Hydraulically controlled
- Output selector for locking out the higher output stages
- The control valve largely compensates for pressure fluctuations

Part No.	Model	Rated output	Height	Width	Depth
182137	DHF 12 C1	13,2 kW	370 mm	220 mm	130 mm
074301	DHF 13 C	13,2 kW	370 mm	220 mm	130 mm
185708	DHF 13 C3	13,2 kW	370 mm	220 mm	130 mm
074302	DHF 15 C	15 kW	370 mm	220 mm	130 mm
074303	DHF 18 C	18 kW	370 mm	220 mm	130 mm
074304	DHF 21 C	21 kW	370 mm	220 mm	130 mm
074305	DHF 24 C	24 kW	370 mm	220 mm	130 mm

D = 141 mm above operating button

Specification

Model	DHF 12 C1	DHF 13 C	DHF 13 C3	DHF 15 C	DHF 18 C	DHF 21 C	DHF 24 C
Rated output	13,2 kW	13,2 kW	13,2 kW	15 kW	18 kW	21 kW	24 kW
Power supply	1/N/PE	3/PE	3/PE	3/PE	3/PE	3/PE	3/PE
Rated current	57,3 A	19,5 A	33 A	21,7 A	26 A	30,4 A	34,2 A
Fuses	60 A	20 A	35 A	25 A	32 A	32 A	35 A
Rated voltage	220/230 V	400 V	230 V	400 V	400 V	400 V	400 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Water connection	G ½ A	G ½ A	G ½ A	G ½ A	G ½ A	G ½ A	G ½ A
Energy efficiency class	B	B	B	B	B	B	B
Colour	white	white	white	white	white	white	white
IP-Rating	IP24	IP24	IP24	IP24	IP24	IP24	IP24
Weight	4.1 kg	4.10 kg	4.1 kg	4.10 kg	4.10 kg	4.10 kg	4.10 kg

Compact instantaneous water heater
Hydraulically controlled compact instantaneous water heaters

DHC U

DHC, DHA

Attractively designed, hydraulically controlled small instantaneous water heater (pressure-tested), with bare wire heating system for rapid heat-up, equipped with connecting cable for permanent power connection, and tee and pressure hose as connection accessories. With jet controller for adaptation to commercially available pressure-tested taps. Metal water fittings G ³/₈.

- Hydraulically controlled
- Metal water connections
- Power cable with standard plug (DNM 3)
- Tubular heater system

Part No.	Model	Rated output	Height	Width	Depth
073715	DHC 4	4,4 kW	360 mm	200 mm	104 mm
073480	DHC 6	6.6 kW	360 mm	200 mm	104 mm
073479	DHC 6 U	6,6 kW	360 mm	200 mm	104 mm
073481	DHC 8	8.8 kW	360 mm	200 mm	104 mm
073716	DHA 4/8 L	8.8 kW	362 mm	200 mm	105 mm

Specification

Model	DHC 4	DHC 6	DHC 6 U	DHC 8	DHA 4/8 L
Rated voltage 1	220 V	220 V	220 V	220 V	220 V
Rated output 1	4,0 kW	6,0 kW	6,0 kW	8,0 kW	8,0/6,0/4,0 kW
Rated current 1	18,1 A	27,2 A	27,2 A	36,3 A	36,3/27,4/18,3 A
Fuse 1	20 A	30 A	30 A	40 A	40/32/20 A
Rated voltage 2	230 V	230 V	230 V	230 V	230 V
Rated output 2	4,4 kW	6,6 kW	6,6 kW	8,8 kW	8,8/6,6/4,4 kW
Rated current 2	19,1 A	28,6 A	28,6 A	38,2 A	38,2/28,7/19,1 A
Fuse 2	20 A	30 A	30 A	40 A	40/32/20 A
Rated voltage 3	240 V	240 V	240 V	240 V	240 V
Rated output 3	4,8 kW	7,2 kW	7,2 kW	9,6 kW	9,6/7,2/4,8 kW
Rated current 3	20,8 A	30,0 A	30,0 A	40,0 A	40/29,9/20,0 A
Fuse 3	20 A	30 A	30 A	40 A	40/32/20 A
Phases	1/N/PE	1/N/PE	1/N/PE	1/N/PE	1/N/PE
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Water connection	G ³/₈ A	G ³/₈ A	G ³/₈ A	G ³/₈ A	G ¹/₂
Energy efficiency class	A	A	A	A	A
Colour	white	white	white	white	white
IP-Rating	IP24	IP24	IP24	IP24	IP24
Weight	2.1 kg	2.4 kg	2.4 kg	2.4 kg	2.6 kg

Compact instantaneous water heater

Taps for compact instantaneous water heater

TAPS FOR COMPACT INSTANTANEOUS WATER HEATER

MEK/MEKD

Mono-lever mixer taps

Mono lever wall mounted tap (pressure-tested), chrome metal lever, brass body, chrome finish. Cold water supply either via instantaneous water heater or tap connection.

- Mono lever mixer tap (pressure-tested)
- Applicable for DHE, DEL, DHB-E, DHB-ST, HDB-E, DHF-C

Part No.	Model	Application	Type
232613	MEKD	Kitchen	sealed

Specification

Model	MEKD
Type of installation	Wall mounted mixer tap
Connection	Brass pipes
Surface	chrome finish
Water connection	G 1/2

ACCESSORIES FOR COMPACT INSTANTANEOUS WATER HEATER

LRH 11/13.1

DCE cooker connection set

Connection set for the electrical connection of a compact instantaneous water heater to an oven junction box. The integral priority control briefly interrupts the power supply to the electric cooker while DHW is being drawn.

- Suitable for DCE 11/13 compact or DCE 11/13 compact RC
- Recommended for electric stoves without electronics, clock, residual heat indication

Part No.	Model
233048	LRH 11/13.1

LR-1-A

Automatic maximum demand controller

LR-1-A for instantaneous water heaters up to 27 kW. Automatic load shedding relay for priority control, e.g. in conjunction with electric storage heaters or to interlock two instantaneous water heaters against each other.

- Installed dim. = each section in accordance with DIN 43880

Part No.	Model
001786	LR-1-A

Mini instantaneous water heater
SELECT mini instantaneous water heater

EIL

EIL

SELECT MINI INSTANTANEOUS WATER HEATER

EIL Premium

APPLICATION: Electronically controlled mini instantaneous water heater with closed-loop control, outlet temperature sensor and variable flow rate restriction. Accurate temperature delivery up to the maximum output. Internal temperature limit from 30 to 50 °C. Including special aerator for perfect water flow pattern and integral flow meter for fitting in existing taps (M22/24 thread). Anti-scalding protection for high inlet temperatures via automatic output adjustment. Suitable for oversink and undersink installation.

EQUIPMENT/CONVENIENCE: Suitable for DHW supply to one hand washbasin. Can be operated with pressurised or non-pressurised tap. Also suitable for showers with inlet temperatures above 20 °C.

EFFICIENCY: Electronic output control for energy efficient and water saving operation. In conjunction with the control electronics, the outlet temperature sensor ensures the set temperature is achieved with maximum accuracy. For this, only the actual required amount of energy is expended; there is no need to add cold water at the tap. The water is heated directly at the draw-off point and only when required. Minimal energy and water losses thanks to short pipe runs. This ensures maximum energy efficiency. Suitable for preheated water (e.g. in solar thermal and heat pump systems).

PROFI-RAPID INSTALLATION: Installation system for time saving, straightforward installation. Straightforward wall mounting: Secured at two points; back panel also serves as a drilling template; slots for compensating for drill hole discrepancies; appliance cover and internal assembly can be removed in one step. Fast, universal water connection: External 3/8“ metal water connections for direct, universal installation of taps. Easy electrical connection: Prepared power cable as standard; 3.5 kW version with standard plug; other versions for permanent connection. Protection rating IP 25 (hoseproof). Fault analysis with LED diagnostic traffic light.

SAFETY: Maintenance-free bare wire heating system, suitable for hard and soft water. Safety system with high pressure switch and electronic temperature monitoring. Maximum permissible inlet temperature 55 °C, maximum permissible inlet temperature for reheating up to 50 °C.

- Mini instantaneous water heater with electronic control for a hand washbasin
- Suitable for oversink or undersink installation with a single appliance
- Can be operated with pressurised and non-pressurised taps
- Accurate temperature delivery up to the maximum output
- Temperature limit internally adjustable from approx. 30 to 50 °C
- Special aerator for perfect flow pattern
- Maintenance-free bare wire heating system
- EIL 3: All 3.5 kW appliances delivered with standard plug

Part No.	Model	Rated output	Height	Width	Depth
200134	EIL 3 Premium	3,53 kW	143 mm	190 mm	82 mm
200135	EIL 4 Premium	4,4 kW	143 mm	190 mm	82 mm
200136	EIL 6 Premium	5,7 kW	143 mm	190 mm	82 mm
200137	EIL 7 Premium	6,5 kW	143 mm	190 mm	82 mm

Mini instantaneous water heater
SELECT mini instantaneous water heater

Specification

Model	EIL 3 Premium	EIL 4 Premium	EIL 6 Premium	EIL 7 Premium
Rated voltage 1	200 V	200 V	200 V	380 V
Rated output 1	2,7 kW	3,3 kW	4,3 kW	5,9 kW
Rated current 1	13,3 A	16,7 A	21,6 A	15,5 A
Frequency 1	50/60 Hz	50/60 Hz	50/60 Hz	50/- Hz
Fuse 1	16 A	20 A	25 A	16 A
Rated voltage 2	220 V	220 V	220 V	400 V
Rated output 2	3,2 kW	4,0 kW	5,2 kW	6,5 kW
Rated current 2	14,5 A	18,2 A	23,6 A	16,3 A
Frequency 2	50/60 Hz	50/60 Hz	50/60 Hz	50/- Hz
Fuse 2	16 A	20 A	25 A	20 A
Rated voltage 3	230 V	230 V	230 V	
Rated output 3	3,53 kW	4,4 kW	5,7 kW	
Rated current 3	15,2 A	19,1 A	24,7 A	
Frequency 3	50/60 Hz	50/60 Hz	50/60 Hz	
Fuse 3	16 A	20 A	25 A	
Rated voltage 4	240 V	240 V	240 V	
Rated output 4	3,8 kW	4,8 kW	6,2 kW	
Rated current 4	15,8 A	20,0 A	25,8 A	
Frequency 4	50/60 Hz	50/60 Hz	50/60 Hz	
MCB/fuse 4	16 A	20 A	32 A	
Phases	1/N/PE	1/N/PE	1/N/PE	2/PE
Temperature adjustment	30-50 °C	30-50 °C	30-50 °C	30-50 °C
Water connection	G 3/8 A	G 3/8 A	G 3/8 A	G 3/8 A
Specific resistance ρ_{15} ≥ (at ϑcold ≤25 °C)	1000 Ω cm	1000 Ω cm	1000 Ω cm	1000 Ω cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤25 °C)	1000 µS/cm	1000 µS/cm	1000 µS/cm	1000 µS/cm
Energy efficiency class	A	A	A	A
IP-Rating	IP25	IP25	IP25	IP25
Colour	white	white	white	white
Weight	1.5 kg	1.5 kg	1.5 kg	1.5 kg

Mini instantaneous water heater
SELECT mini instantaneous water heater

EIL Plus

EIL Plus

APPLICATION: Hydraulically controlled mini instantaneous water heater with flow switch and automatic flow meter. Near constant accurate temperature delivery up to maximum output. Hydraulically controlled single stage heating output, subject to flow rate. Required temperature achieved by mixing at the tap. Including special aerator for perfect water flow pattern and integral flow meter for fitting in existing taps (M22/24 thread). Undersink installation.
EQUIPMENT/CONVENIENCE: EIL Plus suitable for DHW supply to one hand washbasin. Can be operated with pressurised or non-pressurised tap.
EFFICIENCY: Mini instantaneous water heaters heat the water directly at the draw-off point only when required. Energy and water losses due to long pipe runs are avoided. This ensures high energy efficiency.
PROFI-RAPID INSTALLATION: Time saving and straightforward installation. Straightforward wall mounting: Secured at two points; back panel also serves as a drilling template; slots for compensating for drill hole discrepancies; appliance cover and internal assembly can be removed in one step. Fast, universal water connection: External 3/8“ metal water connections for direct, universal installation of taps. Easy electrical connection: Prepared power cable as standard; 3.5 kW version with standard plug; other versions for permanent connection. Protection rating IP 25 (hoseproof).
SAFETY: Maintenance-free bare wire heating system, suitable for hard and soft water. Safety system with high pressure switch.

- Mini instantaneous water heater with hydraulic control for a hand washbasin
- Undersink installation
- Special aerator for perfect flow pattern
- Maintenance-free bare wire heating system
- EIL 3: All 3.5 kW appliances delivered with standard plug

Part No.	Model	Rated output	Height	Width	Depth
200138	EIL 3 Plus	3,53 kW	143 mm	190 mm	82 mm
200139	EIL 4 Plus	4,4 kW	143 mm	190 mm	82 mm
200140	EIL 6 PLus	5,7 kW	143 mm	190 mm	82 mm
200141	EIL 7 Plus	6,5 kW	143 mm	190 mm	82 mm

Specification

Model	EIL 3 Plus	EIL 4 Plus	EIL 6 PLus	EIL 7 Plus
Rated voltage 1	200 V	200 V	200 V	380 V
Rated output 1	2,7 kW	3,3 kW	4,3 kW	5,9 kW
Rated current 1	13,3 A	16,7 A	21,6 A	15,5 A
Frequency 1	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Fuse 1	16 A	20 A	25 A	16 A
Rated voltage 2	220 V	220 V	220 V	400 V
Rated output 2	3,2 kW	4,0 kW	5,2 kW	6,5 kW
Rated current 2	14,5 A	18,2 A	23,6 A	16,3 A
Frequency 2	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Fuse 2	16 A	20 A	25 A	20 A
Rated voltage 3	230 V	230 V	230 V	415 V
Rated output 3	3,53 kW	4,4 kW	5,7 kW	7,0 kW
Rated current 3	15,2 A	19,1 A	24,7 A	16,9 A
Frequency 3	50/60 Hz	50/60 Hz	50/60 Hz	50/- Hz
Fuse 3	16 A	20 A	25 A	20 A
Rated voltage 4	240 V	240 V	240 V	
Rated output 4	3,8 kW	4,8 kW	6,2 kW	
Rated current 4	15,8 A	20 A	25,8 A	
Frequency 4	50/60 Hz	50/60 Hz	50/60 Hz	
MCB/fuse 4	16 A	20 A	32 A	
Phases	1/N/PE	1/N/PE	1/N/PE	2/PE
Water connection	G ³/₈ A	G ³/₈ A	G ³/₈ A	G ³/₈ A
Specific resistance ρ_{15} ≥ (at ϑcold ≤25 °C)	1100 Ω cm	1100 Ω cm	1100 Ω cm	1100 Ω cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤25 °C)	909 µS/cm	909 µS/cm	909 µS/cm	909 µS/cm
Energy efficiency class	A	A	A	A
IP-Rating	IP25	IP25	IP25	IP25
Colour	white	white	white	white
Weight	1.4 kg	1.4 kg	1.4 kg	1.4 kg

Mini instantaneous water heater
SELECT mini instantaneous water heater

EIL Trend

EIL Trend

EIL Trend

APPLICATION: Hydraulically controlled mini instantaneous water heater with flow switch and automatic flow meter. Near constant accurate temperature delivery up to maximum output. Hydraulically controlled single stage heating output, subject to flow rate. Required temperature achieved by mixing at the tap. Including special aerator for perfect water flow pattern and integral flow meter for fitting in existing taps (M22/24 thread). Suitable for oversink or undersink installation.
EQUIPMENT/CONVENIENCE: EIL Trend suitable for DHW supply to one hand washbasin. Operation with non-pressurised tap.
EFFICIENCY: Mini instantaneous water heaters heat the water directly at the draw-off point and only when required. Energy and water losses due to long pipe runs are avoided. High energy efficiency as a result.
PROFI-RAPID INSTALLATION: Time saving and straightforward installation. Straightforward wall mounting: Secured at two points; back panel also serves as a drilling template; slots for compensating for drill hole discrepancies; appliance cover and internal assembly can be removed in one step. Fast, universal water connection: External 3/8“ metal water connections for direct, universal installation of taps. Easy electrical connection: Prepared power cable as standard; 3.5 kW version with standard plug; other versions for permanent connection. Protection rating IP 25 (hoseproof).
SAFETY: Maintenance-free bare wire heating system, suitable for hard and soft water. Safety system with high pressure switch.

- Mini instantaneous water heater with hydraulic control for a hand washbasin
- Suitable for oversink or undersink installation with a single appliance
- Operation with non-pressurised tap
- Special aerator for perfect flow pattern
- Maintenance-free bare wire heating system
- EIL 3: All 3.5 kW appliances delivered with standard plug

Part No.	Model	Rated output	Height	Width	Depth
200142	EIL 3 Trend	3,53 kW	143 mm	190 mm	82 mm
200143	EIL 4 Trend	4,4 kW	143 mm	190 mm	82 mm
200144	EIL 6 Trend	5,7 kW	143 mm	190 mm	82 mm

Specification

Model	EIL 3 Trend	EIL 4 Trend	EIL 6 Trend
Rated voltage 1	200 V	200 V	200 V
Rated output 1	2,7 kW	3,3 kW	4,3 kW
Rated current 1	13,3 A	16,7 A	21,6 A
Frequency 1	50/60 Hz	50/60 Hz	50/60 Hz
Fuse 1	16 A	20 A	25 A
Rated voltage 2	220 V	220 V	220 V
Rated output 2	3,2 kW	4,0 kW	5,2 kW
Rated current 2	14,5 A	18,2 A	23,6 A
Frequency 2	50/60 Hz	50/60 Hz	50/60 Hz
Fuse 2	16 A	20 A	25 A
Rated voltage 3	230 V	230 V	230 V
Rated output 3	3,53 kW	4,4 kW	5,7 kW
Rated current 3	15,2 A	19,1 A	24,7 A
Frequency 3	50/60 Hz	50/60 Hz	50/60 Hz
Fuse 3	16 A	20 A	25 A
Rated voltage 4	240 V	240 V	240 V
Rated output 4	3,8 kW	4,8 kW	6,2 kW
Rated current 4	15,8 A	20 A	25,8 A
Frequency 4	50/60 Hz	50/60 Hz	50/60 Hz
MCB/fuse 4	16 A	20 A	32 A
Phases	1/N/PE	1/N/PE	1/N/PE
Water connection	G 3/8 A	G 3/8 A	G 3/8 A
Specific resistance ρ_{15} ≥ (at ϑcold ≤25 °C)	1100 Ω cm	1100 Ω cm	1100 Ω cm
Specific conductivity σ_{15} ≤ (at ϑcold ≤25 °C)	909 µS/cm	909 µS/cm	909 µS/cm
Energy efficiency class		A	A
IP-Rating	IP25	IP25	IP25
Colour	white	white	white
Weight	1.4 kg	1.4 kg	1.4 kg

Mini instantaneous water heater
SELECT mini instantaneous water heater

EIL 4 Trend + OT

EIL 4 Trend + UT

EIL 4 Trend + UTE

EIL Trend with tap

EIL mini instantaneous water heater for DHW supply to one hand washbasin. Operation with non-pressurised or pressure-tested tap, depending on version. Mini instantaneous water heaters heat the water directly at the draw-off point and only when required. Energy and water losses due to long pipe runs are avoided. High energy efficiency as a result.
Oversink or undersink installation is possible, depending on model. Time-efficient and straightforward installation of instantaneous water heater: Secured at two points; back panel also serves as a drilling template; slots for compensating for drill hole discrepancies; appliance cover and internal assembly can be removed with just one hand movement.
Fast, universal water connection: External 3/8“ metal water connections for direct, universal installation of tap.
Easy electrical connection: Prepared power cable as standard; 3.5 kW version with standard plug; other versions for permanent connection. Protection rating IP 25 (hoseproof).

- EIL Trend with OT: Mini instantaneous water heater for oversink installation including non-pressurised wall mounted tap in one packaging unit
- EIL Trend with UT: Mini instantaneous water heater for undersink installation including non-pressurised twin-lever washbasin tap in one packaging unit
- EIL Trend with UTE: Mini instantaneous water heater for undersink installation including non-pressurised mono-lever washbasin tap in one packaging unit
- EIL 3: All 3.5 kW appliances delivered with standard plug

Part No.	Model
200145	EIL 3 Trend + OT
200146	EIL 3 Trend + UT
200147	EIL 3 Trend + UTE
201409	EIL 4 Trend + OT
201410	EIL 4 Trend + UT
201411	EIL 4 Trend + UTE

Mini instantaneous water heater
Taps for open mini instantaneous water heaters

MEW

MEWC

TAPS FOR OPEN MINI INSTANTANEOUS WATER HEATERS

Mono-lever mixer taps

Mono-lever mixer tap, for open systems, with pull rod drain set for mini instantaneous water heater DNM for mono-hole installation.

Part No.	Model	Application	Type
232612	MEW	Basin	open
232741	MEWC	Basin	open

Specification

Model	MEW	MEWC
Connection	Connecting hoses	Connecting hoses
Type of installation	Single hole mixer tap	Single hole mixer tap
Connection	Connecting hoses	Connecting hoses
Outlet height	50 mm	140 mm
Reach	110 mm	140 mm

WST

Mixer taps

Washbasin mixer tap for open vented undersink water heaters for mono block installation with swivelling spout, flexible water connection hoses, brass body, chrome finish with chain eyelet, 1 top G 3/8, 1 regulating top; can be used with the following appliances: SNU 5 SL(i), SNU 10 SL(i), UFP 5 t.

Part No.	Model	Application	Type
232620	WST	Basin	open

Specification

Model	WST
Connection	Connecting hoses
Type of installation	Single hole mixer tap
Connection	Connecting hoses
Outlet height	130 mm
Reach	150 mm

Tempra instantaneous water heater

Tempra instantaneous water heater

Tempra Plus

ELECTRONICALLY REGULATED INSTANTANEOUS WATER HEATERS

Tempra Plus

APPLICATION: Tempra Plus is suitable for DHW supply to multiple draw-off points (single and group supply), e.g. simultaneous supply to the bathroom and kitchen. Sealed unvented, pressure-tested appliance for use with all commercially available pressure taps.

EQUIPMENT/CONVENIENCE: Full electronic control. Guaranteed accurate temperature delivery at all times thanks to Advanced Flow Control. Variable temperature selection from 20 - 60 °C (68 - 140 °F) via rotary selector. Large, backlit multifunction display to show set temperature, current power consumption, flow rate, status and service information. Memory function for 2 programmable preferred temperatures. Individually adjustable temperature limit (Tmax). Controls and keypad can be locked. LED ON/OFF indicator.

EFFICIENCY: Energy and water savings of up to 30 % through full electronic control with Advanced Flow Control. 3 sensors and an additional motorised valve ensure accurate temperature delivery. For this, only the actual required amount of energy is expended; there is no need to add cold water at the tap. This ensures maximum energy efficiency. Economy monitor shows cost savings.

INSTALLATION & SERVICE: Straightforward wall mounting – secured at 3 points; back panel also serves as a drilling template; slots for compensating for drill hole discrepancies. Fast and universal water connection: external ¾" NPT brass connection nipple for surface mounted water connection from below. Simple surface mounted electrical connection from below. Fault memory can be called up on the display for fault analysis.

SAFETY: Reliable and durable operation thanks to robust tubular heater. High safety guaranteed by up to three high limit safety cut-outs.

- Full electronic control with Advanced Flow Control for maximum energy efficiency and accurate temperature delivery at all times
- Large, backlit multifunction display
- Economy monitor shows cost savings
- Two temperature memory keys
- Temperature limit (childproofing)
- Compact space saving design
- Easy and quick installation
- High quality - Made in Germany

Part No.	Model	Height	Width	Depth
239219	Tempra 12 Plus	369 mm	420 mm	117 mm
239220	Tempra 15 Plus	369 mm	420 mm	117 mm
239221	Tempra 20 Plus	369 mm	420 mm	117 mm
239222	Tempra 24 Plus	369 mm	420 mm	117 mm
239223	Tempra 29 Plus	369 mm	420 mm	117 mm
239225	Tempra 36 Plus	369 mm	420 mm	117 mm

Specification

Model	Tempra 12 Plus	Tempra 15 Plus	Tempra 20 Plus	Tempra 24 Plus	Tempra 29 Plus	Tempra 36 Plus
Rated voltage 1	208 V	208 V	208 V	208 V	208 V	208 V
Rated output 1	9 kW	10,8 kW	14,4 kW	18 kW	21,6 kW	27 kW
Rated current 1	44 A	2 x 26 A	2 x 35 A	2 x 44 A	3 x 35 A	3 x 44 A
Fuse 1	50 A	2 x 30 A	2 x 35 A	2 x 50 A	3 x 35 A	3 x 50 A
Rated voltage 2	240 V	240 V	240 V	240 V	240 V	240 V
Rated output 2	12 kW	14,4 kW	19,2 kW	24 kW	28,8 kW	36 kW
Rated current 2	50 A	2 x 30 A	2 x 40 A	2 x 50 A	3 x 40 A	3 x 50 A
Fuse 2	50 A	2 x 30 A	2 x 40 A	2 x 50 A	3 x 40 A	3 x 50 A
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Power supply	1/GRD	2/GRD	2/GRD	2/GRD	3/GRD	3/GRD
Available temperature range	Off, 20-60 °C	Off, 20-60 °C	Off, 20-60 °C	Off, 20-60 °C	Off, 20-60 °C	Off, 20-60 °C
Colour	white	white	white	white	white	white
Weight	6.1 kg	7.3 kg	7.3 kg	7.3 kg	8.6 kg	8.6 kg

Tempra instantaneous water heater
Electronically regulated instantaneous water heaters

Tempra Trend

Tempra Trend

APPLICATION: empra Trend is suitable for DHW supply to multiple draw-off points (single and group supply), e.g. simultaneous supply to the bathroom and kitchen. Sealed unvented, pressure-tested appliance for use with all commercially available pressure taps.
EQUIPMENT/CONVENIENCE: Electronic control. Accurate temperature delivery up to the maximum output. Variable temperature selection from 20 - 60 °C (68 - 140 °F) via rotary selector. Backlit LCD to show set temperature and power consumption. Individually adjustable temperature limit (Tmax). Controls and keypad can be locked. LED ON/OFF indicator.
EFFICIENCY: Energy and water savings of up to 30 % through electronic output control with 3i technology. 3 sensors ensure that the selected temperature is accurately achieved. For this, only the actual required amount of energy is expended; there is no need to add cold water at the tap. This ensures maximum energy efficiency.
INSTALLATION & SERVICE: Straightforward wall mounting – secured at 3 points; back panel also serves as a drilling template; slots for compensating for drill hole discrepancies. Fast and universal water connection: external 3/4" NPT brass connection nipple for surface mounted water connection from below. Simple surface mounted electrical connection from below. Fault memory can be called up on the display for fault analysis.
SAFETY: Reliable and durable operation thanks to robust tubular heater. High safety guaranteed by up to three high limit safety cut-outs.

- Electronic control for maximum energy efficiency and accurate temperature delivery
- Backlit LCD
- Temperature limit (childproofing)
- Compact space saving design
- Easy and quick installation
- High quality - Made in Germany

Part No.	Model	Height	Width	Depth
239213	Tempra 12 Trend	369 mm	420 mm	117 mm
239214	Tempra 15 Trend	369 mm	420 mm	117 mm
239215	Tempra 20 Trend	369 mm	420 mm	117 mm
239216	Tempra 24 Trend	369 mm	420 mm	117 mm
239217	Tempra 29 Trend	369 mm	420 mm	117 mm
239218	Tempra 36 Trend	369 mm	420 mm	117 mm

Specification

Model	Tempra 12 Trend	Tempra 15 Trend	Tempra 20 Trend	Tempra 24 Trend	Tempra 29 Trend	Tempra 36 Trend
Rated voltage 1	208 V	208 V	208 V	208 V	208 V	208 V
Rated output 1	9 kW	10,8 kW	14,4 kW	18 kW	21,6 kW	27 kW
Rated current 1	44 A	2 x 26 A	2 x 35 A	2 x 44 A	3 x 35 A	3 x 44 A
Fuse 1	50 A	2 x 30 A	2 x 35 A	2 x 50 A	3 x 35 A	3 x 50 A
Rated voltage 2	240 V	240 V	240 V	240 V	240 V	240 V
Rated output 2	12 kW	14,4 kW	19,2 kW	24 kW	28,8 kW	36 kW
Rated current 2	50 A	2 x 30 A	2 x 40 A	2 x 50 A	3 x 40 A	3 x 50 A
Fuse 2	50 A	2 x 30 A	2 x 40 A	2 x 50 A	3 x 40 A	3 x 50 A
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Power supply	1/GRD	2/GRD	2/GRD	2/GRD	3/GRD	3/GRD
Available temperature range	Off, 20-60 °C	Off, 20-60 °C	Off, 20-60 °C	Off, 20-60 °C	Off, 20-60 °C	Off, 20-60 °C
Colour	white	white	white	white	white	white
Weight	6.1 kg	7.3 kg	7.3 kg	7.3 kg	8.6 kg	8.6 kg

Water boilers
Water boilers, 5 litre

EBK 5 G

WATER BOILERS, 5 LITRE

EBK 5 G

APPLICATION: The EBK 5 G is a water boiler for supplying hot and boiling water in domestic or similar applications.
EQUIPMENT AND CONVENIENCE: With boiling point detection and automatic shutdown, immediate re-boiling is possible. Variable temperature selection from 35 °C to boiling point. Heat-up operation is signalled by an indicator.
The twin-lever fill & drain tap made from brass with a white casing enables optional throttle adjustment. The water fill-level is indicated by the markings on the glass container.
INSTALLATION AND SERVICE: The connected load is 2 kW. Optional installation on finished walls or connection via a water connection valve.
Standard delivery includes a fill & drain tap with pivoting overflow pipe and a power cable with standard plug. Protection rating IP 24 (splashproof). A large opening on the container (service aperture) provides direct access for cleaning or descaling.
SAFETY AND QUALITY: Heating element.

- Exclusive design
- High-grade glass container
- Large container aperture for easy descaling and cleaning
- Stainless steel heating element
- Twin-lever fill and drain valve made from brass with white casing
- Automatic shutdown with boiling point detection

Part No.	Model	Colour	Height	Width	Depth
074286	EBK 5 G	white	325 mm	245 mm	242 mm

Specification

Model	EBK 5 G
Capacity up to	5,0 l
Connected load	2 kW
Power supply	1/N/PE
Rated voltage	230 V
Frequency	50 Hz
Container material	Glass
Weight	4.10 kg

Water boilers
Water boilers, 5 litre

EBK 5 GA

EBK 5 GA

APPLICATION: The EBK 5 GA is a water boiler for supplying hot and boiling water in domestic or similar applications.
EQUIPMENT AND CONVENIENCE: With boiling point detection and automatic shutdown, immediate re-boiling is possible. Variable temperature selection from 35 °C to boiling point. Heat-up operation is signalled by an indicator. The triple-handle fill & drain tap made from chrome-plated brass enables optional throttle adjustment. The water fill-level is indicated by the markings on the glass container.
INSTALLATION AND SERVICE: The connected load is 2 kW. Optional installation on finished walls or connection via a water connection valve.
Standard delivery includes a fill & drain tap with pivoting overflow pipe and a power cable with standard plug. Protection rating IP 24 (splashproof). A large opening on the container (service aperture) provides direct access for cleaning or descaling.
SAFETY AND QUALITY: Heating element.

- Exclusive design
- High-grade glass container
- Large container aperture for easy descaling and cleaning
- Stainless steel heating element
- {Dreigriff-Füll- und Ablaufarmatur aus Messing, verchromt}
- Automatic shutdown with boiling point detection

Part No.	Model	Colour	Height	Width	Depth
074287	EBK 5 GA	white	325 mm	245 mm	242 mm

Specification

Model	EBK 5 GA
Capacity up to	5,0 l
Connected load	2 kW
Power supply	1/N/PE
Rated voltage	230 V
Frequency	50 Hz
Container material	Glass
Weight	4.10 kg

EBK 5 K

EBK 5 K

APPLICATION: The EBK 5 K is a water boiler for supplying hot and boiling water in domestic or similar applications.
EQUIPMENT AND CONVENIENCE: With boiling point detection and automatic shutdown, immediate re-boiling is possible. Variable temperature selection from 35 °C to boiling point. Heat-up operation is signalled by an indicator.
The twin-lever fill & drain tap made from brass with a white casing enables optional throttle adjustment. The water fill-level is indicated by the markings on the container.
INSTALLATION AND SERVICE: The connected load is 2 kW. Optional installation on finished walls or connection via a water connection valve.
Standard delivery includes a fill & drain tap with pivoting overflow pipe and a power cable with standard plug. Protection rating IP 24 (splashproof). A large opening on the container (service aperture with cap) provides direct access for cleaning or descaling.
SAFETY AND QUALITY: Stainless steel heating element. Integral high limit safety cut-out.

- Plastic container with white casing
- Large container aperture with cap for easy descaling and cleaning
- Stainless steel heating element
- Twin-lever fill and drain valve made from brass with white casing
- Automatic shutdown with boiling point detection

Part No.	Model	Colour	Height	Width	Depth
074288	EBK 5 K	white	295 mm	325 mm	197 mm

Specification

Model	EBK 5 K
Capacity up to	5,0 l
Connected load	2 kW
Power supply	1/N/PE
Rated voltage	230 V
Frequency	50 Hz
Container material	Glass
Weight	2.90 kg

Water boilers
Water boilers, 5 litre

KBA 5 KA

KBA 5 KA

APPLICATION: The KBA 5 KA is a water boiler for supplying hot and boiling water in domestic or similar applications.
EQUIPMENT AND CONVENIENCE: With boiling point detection and automatic shutdown, immediate re-boiling is possible. Variable temperature selection from 35 °C to boiling point. Heat-up operation is signalled by an indicator. The triple-handle fill & drain tap made from chrome-plated brass enables optional throttle adjustment. The water fill-level is indicated by the markings on the container.
INSTALLATION AND SERVICE: The connected load is 2 kW. Optional installation on finished walls or connection via a water connection valve.
Standard delivery includes a fill & drain tap with pivoting overflow pipe and a power cable with standard plug. Protection rating IP 24 (splashproof). A large opening on the container
(service aperture with cap) provides direct access for cleaning or descaling.
SAFETY AND QUALITY: Stainless steel heating element. Integral high limit safety cut-out.

- Plastic container with grey casing
- Large container aperture with cap for easy descaling and cleaning
- Stainless steel heating element
- {Dreigriff-Füll- und Ablaufarmatur aus Messing, verchromt}
- Automatic shutdown with boiling point detection

Part No.	Model	Colour	Height	Width	Depth
074289	KBA 5 KA	grey	295 mm	325 mm	197 mm

Specification

Model	KBA 5 KA
Capacity up to	5,0 l
Connected load	2 kW
Power supply	1/N/PE
Rated voltage	230 V
Frequency	50 Hz
Container material	Plastic
Weight	2.90 kg

Small water heater

Small water heater, 5 to 10 litres, undersink, non-pressurised

SNU 5 anti-drip comfort

SMALL WATER HEATER, 5 TO 10 LITRES, UNDERSINK, NON-PRESSURISED

SNU 5 SL anti-drip comfort / SNU 10 SL comfort

APPLICATION: SNU SL appliances are suitable for supplying individual draw-off points, e.g. for supplying a washbasin in the bathroom or a sink in the kitchen. Non-pressurised appliance to supply one draw-off point, only use non-pressurised taps. Undersink installation.

EQUIPMENT AND CONVENIENCE: The anti-drip function (SNU 5 SL) prevents expansion water dripping during heat-up, thereby saving water and reducing limescale build-up on the taps and in the sink or washbasin. The energy-saving thermostop function prevents unwanted heating of the mixer tap. Temperature controller with temperature capture immersed directly in the water for highly precise and fast temperature capture. Variable temperature selection from 35 - 85 °C via rotary selector. Temperature limit at 38 °C, 45 °C, 55 °C and 65 °C. Automatic frost protection setting when the appliance is off. Heat-up signalled by an indicator lamp. Internal plastic cylinder made of polypropylene, with high grade EPS thermal insulation for very low energy losses.

INSTALLATION AND SERVICE: PROFI-RAPID installation system for quick and easy installation. Easy replacement with standard fixing points observed. Simple wall mounting with universal mounting rail. Installation template included in standard delivery. Threaded metal water fittings for secure threaded connections. Connecting cable with safety plug. Practical cable storage in the back panel of the appliance to house any excess power cable. Protection rating IP 24 (splashproof).

SAFETY AND QUALITY: Robust copper tubular heater with low surface load for a long service life. High limit safety cut-out can be reset on all 1-2 kW appliances for safe commissioning. Mechanical temperature limiting can be set to 38 °C or 45 °C, for anti-scalding protection.

- Anti-drip function for the highest comfort and hygiene (SNU 5 SL)
- thermostop function for the prevention of energy losses with mixer taps (UFP 5 t, part no. 222175)
- Non-pressurised appliance for rapid DHW availability without delay
- Plug-in unit for electrical connection to any standard socket.
- Extensive range of taps available as accessories
- Appliance versions with 5 or 10 litre capacity.
- High grade thermal insulation with extremely low energy losses.

Part No.	Model	Connected load	Height	Width	Depth
221121	SNU 5 SLi	2 kW	421 mm	263 mm	230 mm
222199	SNU 10 SLi	2 kW	503 mm	295 mm	275 mm

Specification

Model	SNU 5 SLi	SNU 10 SLi
Rated capacity	5 l	10 l
Power supply	1/N/PE	1/N/PE
Rated voltage	230 V	230 V
Frequency	50/60 Hz	50/60 Hz
Standby power consumption 24h at 65 °C	0,20 kWh	0,32 kWh
Standby power consumption over 24h at 38 °C	0.09 kWh	
Colour	white	white
IP-Rating	IP24 D	IP24
Energy efficiency class	A	A
Weight	3.20 kg	5.10 kg

Small water heater
Small water heater, 5 to 10 litres, undersink, non-pressurised

ESH 5 U-N Trend_Frontal

NEW

ESH 5 U-N Trend

APPLICATION: ESH 5 U-N Trend appliances are suitable for DHW supply to individual draw-off points, e.g. a kitchen sink or hand washbasin. Non-pressurised appliance for use with non-pressurised taps only. Undersink installation.
EQUIPMENT AND CONVENIENCE: Temperature can be infinitely adjusted between 35 and 85 °C. The thermostop function prevents unwanted heating of the tap, thereby saving standby energy. Heat-up signalled by indicator lamp
INSTALLATION: PROFI-RAPID installation system for quick and easy installation. Easy replacement using standard fixing points. Simple wall mounting with universal mounting rail. Installation template included in the standard delivery. Connecting cable with safety plug. Practical cable compartment in the back panel of the appliance to accommodate excess cable. Protection rating IP 24 D (splashproof).
SAFETY AND QUALITY: Robust copper tubular heater for a long service life. Resettable high limit safety cut-out for safe commissioning.

- Non-pressurised appliance for rapid DHW availability without delay
- Infinitely variable temperature selection from approx. 35 °C to approx. 85 °C
- Plug-in unit for electrical connection to any standard socket
- thermostop function for the prevention of energy losses with mixer taps (UFP 5 t, part no. 222175)
- Resettable high limit safety cut-out

Part No.	Model	Connected load	Height	Width	Depth
201386	ESH 5 U-N Trend	2 kW	415 mm	252 mm	233 mm

Specification

Model	ESH 5 U-N Trend
Rated capacity	5 l
Power supply	1/N/PE
Rated voltage	230 V
Frequency	50/60 Hz
Standby power consumption/24 h	0.24 kWh
Colour	white
IP-Rating	IP24
Energy efficiency class	A
Weight	3.1 kg

ESH 5 U-N Trend + tap

NEW

ESH 5 U-N Trend with mono-lever tap

Design and equipment level as per the ESH 5 U-N, with mono-lever washbasin tap, supplied as a complete pack.

- Small water heater and mono-lever mixer tap in a single pack

Part No.	Model	Connected load	Height	Width	Depth
201387	ESH 5 U-N Trend +A	2 kW	415 mm	252 mm	233 mm

Small water heater

Small water heater, 5 to 10 litres, undersink, non-pressurised

ESH 10 U-N Trend_Frontal

NEW

ESH 10 U-N Trend

APPLICATION: ESH 10 U-N Trend appliances are suitable for DHW supply to individual draw-off points, e.g. a kitchen sink or hand washbasin. Non-pressurised appliance for use with non-pressurised taps only. Undersink installation.
EQUIPMENT AND CONVENIENCE: Temperature can be infinitely adjusted between 35 and 85 °C. The thermostop function prevents unwanted heating of the tap, thereby saving standby energy. Heat-up signalled by indicator lamp. High drawable water volume thanks to special heating element geometry.
INSTALLATION: PROFI-RAPID installation system for quick, easy installation. Easy replacement using standard fixing points. Simple wall mounting with universal mounting rail. Installation template included in the standard delivery. Connecting cable with safety plug. Practical cable compartment in the back panel of the appliance to accommodate excess cable. Protection rating IP 24 D (splashproof).
SAFETY AND QUALITY: Robust copper tubular heater for a long service life. Resettable high limit safety cut-out for safe commissioning.

- Non-pressurised appliance for rapid DHW availability without delay
- Infinitely variable temperature selection from approx. 35 °C to 85 °C
- Plug-in unit for electrical connection to any standard socket
- Resettable high limit safety cut-out

Part No.	Model	Connected load	Height	Width	Depth
201391	ESH 10 U-N Trend	2 kW	506 mm	296 mm	276 mm

Specification

Model	ESH 10 U-N Trend
Rated capacity	10 l
Power supply	1/N/PE
Rated voltage	230 V
Frequency	50/60 Hz
Standby power consumption/24 h	0.32 kWh
Colour	white
IP-Rating	IP24
Energy efficiency class	A
Weight	5 kg

ESH 10 U-N Trend + tap

NEW

ESH 10 U-N Trend with mono-lever tap

Design and equipment level as per the ESH 10 U-N, with mono-lever washbasin tap, supplied as a complete pack.

- Small water heater and mono-lever mixer tap in a single pack

Part No.	Model	Connected load	Height	Width	Depth
201392	ESH 10 U-N Trend +A	2 kW	506 mm	296 mm	276 mm

Small water heater
Small water heater, 5 to 15 litres, oversink, non-pressurised

SN 5 comfort

SMALL WATER HEATER, 5 TO 15 LITRES, OVERSINK, NON-PRESSURISED

SN 5 to 15 SL comfort

APPLICATION: SN SL appliances are suitable for supplying individual draw-off points, e.g. to supply a sink in the utility room or in the kitchen, or a single shower (SN 15). Non-pressurised appliance to supply one draw-off point, only use non-pressurised taps. Oversink installation.

EQUIPMENT AND CONVENIENCE: Oversink water heaters heat the water directly at the draw-off point. Energy and water losses due to long pipe runs are avoided. No circulation losses. Low energy losses thanks to high grade thermal insulation. Warm or hot water available at any time. Temperature controller with temperature capture immersed directly in the water for highly precise and fast temperature capture. Variable temperature selection from 35 - 85 °C via rotary selector. Temperature limit at 38 °C, 45 °C, 55 °C and 65 °C. Automatic frost protection setting when the appliance is off. Heat-up signalled by an indicator lamp. Internal plastic cylinder made of polypropylene, with high grade EPS thermal insulation for minimal energy losses.

INSTALLATION AND SERVICE: PROFI-RAPID installation system for quick and easy installation. Easy replacement with standard fixing points observed. Simple wall mounting with universal mounting rail. Installation template included in standard delivery. Threaded metal water fittings for secure threaded connections. Connecting cable with safety plug. Practical cable storage in the back panel of the appliance to house any excess power cable. Protection rating IP 24 (splashproof).

SAFETY AND QUALITY: Robust copper tubular heater with low surface load for a long service life. High limit safety cut-out can be reset on all 2 kW appliances for safe commissioning. High limit safety cut-out with fuse for SN 15 SL 3.3 kW. Mechanical temperature limiting can be set to 38 °C or 45 °C for anti-scalding protection.

- Non-pressurised appliance for rapid DHW availability without delay
- Plug-in unit for electrical connection to any standard socket.
- Extensive range of taps available as accessories.
- Appliance versions with 5, 10 or 15 litre capacity.
- High grade thermal insulation with extremely low energy losses.

Part No.	Model	Connected load	Height	Width	Depth
221127	SN 5 SLi	2 kW	421 mm	263 mm	230 mm
222193	SN 10 SLi	2 kW	503 mm	295 mm	275 mm

Specification

Model	SN 5 SLi	SN 10 SLi
Rated voltage 1	220 V	220 V
Rated output 1	1,8 kW	1,8 kW
Rated current 1	8,3 A	8,3 A
Fuse 1	10 A	10 A
Rated voltage 2	230 V	230 V
Rated output 2	2,0 kW	2,0 kW
Rated current 2	8,7 A	8,7 A
Fuse 2	10 A	10 A
Rated voltage 3	240 V	240 V
Rated output 3	2,2 kW	2,2 kW
Rated current 3	9,1 A	9,1 A
Fuse 3	10 A	10 A
Frequency	50/60 Hz	50/60 Hz
Phases	1/N/PE	1/N/PE
Rated capacity	5 l	10 l
Power supply	1/N/PE	1/N/PE
Standby energy consumption/24 h at 65 °C	0.20 kWh	0.30 kWh
Colour	white	white
IP-Rating	IP24 D	IP24 D
Energy efficiency class	A	A
Weight	3.20 kg	5.10 kg

Small water heater

Small water heater, 5 to 15 litres, oversink, non-pressurised

ESH 5 O-N Trend_Frontal

NEW

ESH 5 O-N Trend

APPLICATION: ESH 5 O-N Trend appliances are suitable for DHW supply to individual draw-off points, e.g. a sink in the utility room or kitchen. Non-pressurised appliance for use with non-pressurised taps only. Oversink installation.
EQUIPMENT/CONVENIENCE: Temperature can be infinitely adjusted between 35 and 85 °C via the rotary selector. Heat-up signalled by indicator lamp.
INSTALLATION: PROFI-RAPID installation system for quick, easy installation. Easy replacement using standard fixing points. Simple wall mounting with universal mounting rail. Installation template included in the standard delivery. Connecting cable with safety plug. Protection rating IP 24 D (splashproof).
SAFETY AND QUALITY: Robust copper tubular heater for a long service life. Resettable high limit safety cut-out for safe commissioning.

- Non-pressurised appliance for rapid DHW availability without delay
- Infinitely variable temperature selection from approx. 35 °C to 85 °C
- Plug-in unit for electrical connection to any standard socket
- Resettable high limit safety cut-out

Part No.	Model	Connected load	Height	Width	Depth
201388	ESH 5 O-N Trend	2 kW	415 mm	252 mm	233 mm

Specification

Model	ESH 5 O-N Trend
Rated capacity	5 l
Power supply	1/N/PE
Rated voltage	230 V
Frequency	50/60 Hz
Standby power consumption/24 h	0.24 kWh
Colour	white
IP-Rating	IP24
Energy efficiency class	A
Weight	3.1 kg

ESH 5 O-N Trend + tap

NEW

ESH 5 O-N Trend with mono lever tap

Design and equipment level as per the ESH 5 O-N, with wall mounted mono-lever tap, supplied as a complete pack.

- Small water heater and wall mounted mono-lever tap in a single pack

Part No.	Model	Connected load	Height	Width	Depth
201389	ESH 5 O-N Trend +A	2 kW	415 mm	252 mm	233 mm

Small water heater
Small water heater, 5 to 15 litres, oversink, non-pressurised

ESH 10 O-N Trend_Frontal

NEW

ESH 10 O-N Trend

APPLICATION: ESH 10 O-N Trend appliances are suitable for DHW supply to individual draw-off points, e.g. a sink in the utility room or kitchen. Non-pressurised appliance for use with non-pressurised taps only. Oversink installation.
EQUIPMENT/CONVENIENCE: Temperature can be infinitely adjusted between 35 and 85 °C via the rotary selector. Heat-up signalled by indicator lamp. High drawable water volume thanks to special heating element geometry.
INSTALLATION: PROFI-RAPID installation system for quick, easy installation. Easy replacement using standard fixing points. Simple wall mounting with universal mounting rail. Installation template included in the standard delivery. Connecting cable with safety plug. Protection rating IP 24 D (splashproof).
SAFETY AND QUALITY: Robust copper tubular heater for a long service life. Resettable high limit safety cut-out for safe commissioning.

- Non-pressurised appliance for rapid DHW availability without delay
- Infinitely variable temperature selection from approx. 35 °C to approx. 85 °C
- Plug-in unit for electrical connection to any standard socket
- Resettable high limit safety cut-out

Part No.	Model	Connected load	Height	Width	Depth
201393	ESH 10 O-N Trend	2 kW	506 mm	296 mm	276 mm

Specification

Model	ESH 10 O-N Trend
Rated capacity	10 l
Power supply	1/N/PE
Rated voltage	230 V
Frequency	50/60 Hz
Standby power consumption/24 h	0.31 kWh
Colour	white
IP-Rating	IP24
Energy efficiency class	A
Weight	5 kg

ESH 10 O-N Trend + tap

NEW

ESH 10 O-N Trend with mono lever tap

Design and equipment level as per the ESH 10 O-N, with wall mounted mono lever tap, supplied as a complete pack.

- Small water heater and wall mounted mono-lever tap in a single pack

Part No.	Model	Connected load	Height	Width	Depth
201395	ESH 10 O-N Trend +A	2 kW	506 mm	296 mm	276 mm

Small water heater
Taps for non-pressurised small water heaters, undersink

TAPS FOR NON-PRESSURISED SMALL WATER HEATERS, UNDERSINK

WST

WUT

Mixer taps WST, WUT series elnor twin

Mixer tap for basin or sink. Chrome metal handles, chrome finish. Chain retaining eyelet, quick-acting fitting. Complete range in a uniform design for all applications in bath and kitchen.

› Mixer tap

Part No.	Model	Application	Type
232620	WST	Basin	open
232604	WUT	Sink	open

Specification

Model	WST	WUT
Connection	Connecting hoses	Connecting hoses
Type of installation	Single hole mixer tap	Single hole mixer tap
Connection	Connecting hoses	
Outlet height	130 mm	200 mm
Reach	150 mm	200 mm

MEW

MEWC

Mono lever mixer tap for open vented small water heaters

Mono-lever mixer for use on a sink. Control cartridge with ceramic technology, solid and robust brass version.

› Mono-lever mixer tap
› MEW with pull rod drain set
› MEW C with pivoting spout
› MES with pivoting spout for kitchen sinks

Part No.	Model	Application	Type
232612	MEW	Basin	open
232741	MEWC	Basin	open
232611	MES	Sink	open

MES

Specification

Model	MEW	MEWC	MES
Connection	Connecting hoses	Connecting hoses	
Type of installation	Single hole mixer tap	Single hole mixer tap	Single hole mixer tap
Connection	Connecting hoses	Connecting hoses	Connecting hoses
Outlet height	50 mm	140 mm	190 mm
Reach	110 mm	140 mm	190 mm

Small water heater
Taps for non-pressurised cylinders, oversink

TAPS FOR NON-PRESSURISED CYLINDERS, OVERSINK

WKM

WDM

Twin lever taps series elnor

Twin lever wall taps, chrome metal handles, chrome finish. Non-return valve and butterfly valve in the cold water supply. Complete range in a uniform design for all applications in bath and kitchen.

- Twin-lever mixer tap
- Applicable to SN 5-15 SL, EB 15 SL, UFP 5 h
- In case of open systems for SH/SHZ, HFA-Z, HFA/EB 80 Z
- Equipment version WDM and WBM with metal rinsing hose and hand-held spray for LP operation

Part No.	Model	Application	Type
232605	WKM	Kitchen	open
232606	WDM	Shower	open

Specification

Model	WKM	WDM
Type of installation	Wall mounted mixer tap	Wall mounted mixer tap
Connection	Brass pipes	Brass pipes
Surface	chrome finish	chrome finish
Water connection	G ½	G ½

MEK/MEKD

MED

Mono-lever mixer taps series elnor pin

Mono-lever wall tap for use inside a shower, on the bath or above the sink. Control cartridge with ceramic technology, solid and robust brass version.

- Mono-lever mixer tap
- Applicable to SN 5-15 SL, EB 15 SL, UFP 5 h
- In case of open systems for SH/SHZ, HFA-Z, HFA/EB 80 Z
- Equipment version MED and MEB with metal rinsing hose and hand-held spray for LP operation

Part No.	Model	Application	Type
232608	MEK	Kitchen	open
232609	MED	Shower	open

Specification

Model	MEK	MED
Water connection	G ½	G ½
Type of installation	Wall mounted mixer tap	Wall mounted mixer tap
Connection	Brass pipes	Brass pipes
Surface	chrome finish	chrome finish
Reach	185 mm	

Connection pipe 500 mm

U heavy

Accessories for taps/valves

Special accessories for installation of non-pressurised oversink taps with wall mounted cylinders or non-pressurised oversink small water heaters on unfinished walls.(U/heavy). Long connecting pipes (500 mm) for special installation situations.

Part No.	Model	Suitable for	Length
006629	Connection pipe 500 mm	DHW heating	500 mm
000734	U heavy	Non-pressurised wall mounted taps	

Small water heater
Small water heater, 5 to 10 litres, undersink, pressure-tested

SHU 10 comfort

SMALL WATER HEATER, 5 TO 10 LITRES, UNDERSINK, PRESSURE-TESTED

SHU 5/10 SL comfort

APPLICATION: SHU cylinders are suitable for DHW supply to several draw-off points with low DHW demand. Pressure-tested appliance for use with all commercially available pressure taps. Installation only with the appropriate safety assembly. Undersink installation

EQUIPMENT AND CONVENIENCE: Tailored solutions for decentralised group supply. Undersink water heaters heat the water directly at the draw-off point. Energy and water losses due to long pipe runs are avoided. No circulation losses. Low energy losses thanks to high grade thermal insulation. Warm or hot water available at any time. Temperature controller with temperature sensor immersed directly in the water. Variable temperature selection 35 °C - 85 °C via rotary selector. Temperature limit at 38 °C, 45 °C, 55 °C and 65 °C, plus automatic frost protection setting when the appliance is off. Heat-up signalled by indicator lamp. Pressure-tested steel internal cylinder (SH 10, SH 15, SHU 10) and pressure-tested copper internal cylinder (SHU 5) with high grade EPS thermal insulation.

INSTALLATION AND SERVICE: PROFI-RAPID installation system for even quicker and more straightforward installation. Easy replacement as standard fixing points are taken into account. Simple wall mounting with universal mounting rail. Installation template included in standard delivery. Threaded metal water fittings for secure threaded connections. Matching safety assemblies available as accessories. Connecting cable with safety plug or power cable for permanent connection. Practical cable compartment in the back panel of the appliance to accommodate excess cable. Protection rating IP 24 (splashproof).

SAFETY AND QUALITY: Robust copper tubular heater with low surface load. Resettable high limit safety cut-out. Mechanical temperature limiting can be set to 38 °C or 45 °C for anti-scalding protection.

- Quick DHW availability without delay
- Electrical connection to any standard socket
- Matching safety assemblies as accessories
- Appliance versions with 5 or 10 litre capacity.

Part No.	Model	Connected load	Height	Width	Depth
222151	SHU 5 SLi	2 kW	421 mm	263 mm	230 mm
229473	SHU 10 SLi	2 kW	503 mm	295 mm	275 mm

Specification

Model	SHU 5 SLi	SHU 10 SLi
Rated capacity	5 l	10 l
Rated voltage	230 V	230 V
Rated output 1	1,8 kW	1,8 kW
Rated current 1	8,3 A	8,3 A
Fuse 1	10 A	10 A
Phases	1/N/PE	1/N/PE
Frequency	50/60 Hz	50/60 Hz
Power supply	1/N/PE	1/N/PE
Energy efficiency class	A	A
Standby power consumption/24 h	0.29 kWh	0.36 kWh
IP-Rating	IP24	IP24
Weight	5.20 kg	7.60 kg
Colour	white	white

Small water heater
Small water heater, 5 to 10 litres, undersink, pressure-tested

SHC

SHC

APPLICATION: SHC cylinders are suitable for supplying DHW to several draw-off points with low DHW demand. Pressure-tested appliance for use with all commercially available pressure fittings. Installation only with the appropriate safety valve. Undersink installation.

EQUIPMENT AND CONVENIENCE: Tailored solutions for decentralised group supply. Undersink water heaters heat the water directly at the draw-off point. Energy and water losses due to long pipe runs are avoided. No circulation losses. Low energy losses thanks to high grade thermal insulation. Warm or hot water available at any time. Temperature controller with temperature capture immersed directly in the water. Variable temperature selection from 30 - 65 °C via rotary selector. Temperature limit at 38 °C and 49 °C, plus automatic frost protection setting when the appliance is off. Heat-up signalled by an indicator lamp. Pressure-tested internal steel cylinder with protective magnesium anode. High grade EPS thermal insulation for low energy losses.

INSTALLATION AND SERVICE: PROFI-RAPID installation system for even quicker and simpler installation. Simple wall mounting with universal mounting rail as standard. Installation template included in standard delivery. Threaded metal water fittings for secure connection. Matching safety valves available as accessories. Protection rating IP 24 (splashproof).

SAFETY AND QUALITY: Robust copper tubular heater with low surface load. Resettable high limit safety cut-out. Mechanical temperature limiting can be set to 38 °C or 49 °C.

- Quick DHW availability without delay
- Appliance versions with 10 or 15 litre capacity
- High-grade thermal insulation
- SHC 10 and SHC 15 incl. 2 reducers 1/2 x 3/8 for water connections
- SHC 10 GB Eltron and SHC 15 GB Eltron incl. safety relief valve, 700 kPa, 1/2 inlet and outlet connection; WRAS, ACS and CE certificate
- SHC 10 AU and SHC 15 AU inkl. P&T relief valve, 700 kPa, max. 99°C, G 1/2 outlet connection; meets Australian Standard AS 3500-4 for potable Water Mark approval

Part No.	Model	Rated capacity	Height	Width	Depth
233747	SHC 10	10 l	430 mm	280 mm	270 mm
234337	SHC 15	15 l	452 mm	320 mm	318 mm
235232	SHC 10 GB Eltron	10 l	430 mm	280 mm	270 mm
234407	SHC 15 GB Eltron	15 l	452 mm	320 mm	318 mm
235002	SHC 10 AU	10 l	498 mm	280 mm	270 mm
235001	SHC 15 AU	15 l	523 mm	320 mm	318 mm

Specification

Model	SHC 10	SHC 15	SHC 10 GB Eltron	SHC 15 GB Eltron	SHC 10 AU	SHC 15 AU
Rated voltage 1	220 V	220 V	220 V	220 V	220 V	220 V
Rated output 1	1,4 kW	1,4 kW	1,4 kW	1,4 kW	1,4 kW	1,4 kW
Rated current 1	6,2 A	6,2 A	6,2 A	6,2 A	6,2 A	6,2 A
Fuse 1	10 A	10 A	10 A	10 A	10 A	10 A
Rated voltage 2	230 V	230 V	230 V	230 V	230 V	230 V
Rated output 2	1,5 kW	1,5 kW	1,5 kW	1,5 kW	1,5 kW	1,5 kW
Rated current 2	6,5 A	6,5 A	6,5 A	6,5 A	6,5 A	6,5 A
Fuse 2	10 A	10 A	10 A	10 A	10 A	10 A
Rated voltage 3	240 V	240 V	240 V	240 V	240 V	240 V
Rated output 3	1,6 kW	1,6 kW	1,6 kW	1,6 kW	1,6 kW	1,6 kW
Rated current 3	6,8 A	6,8 A	6,8 A	6,8 A	6,8 A	6,8 A
Fuse 3	10 A	10 A	10 A	10 A	10 A	10 A
Phases	1/N/PE	1/N/PE	1/N/PE	1/N/PE	1/N/PE	1/N/PE
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Water connection	G ½ A	G ½ A	G ½ A	G ½ A	G ½ A	G ½ A
Standby energy consumption/24 h at 65 °C	0.48 kWh	0.49 kWh	0.48 kWh	0.49 kWh	0.50 kWh	0.53 kWh
Energy efficiency class	A	A	A	A	A	A
IP-Rating	IP24 D	IP24 D	IP24 D	IP24 D	IP24	IP24
Colour	white	white	white	white	white	white
Weight	7.2 kg	9 kg	7.2 kg	9 kg	7.20 kg	9.00 kg

Small water heater
Small water heater, 5 to 10 litres, undersink, pressure-tested

ESH U-P Plus_Frontal

NEW

ESH 10 U-P Plus

APPLICATION: ESH 10 U-P Plus cylinders are suitable for DHW supply to single or multiple draw-off points with low DHW demand. Pressure-tested appliance for use with all commercially available pressure taps. Installation only with the appropriate safety assembly. Undersink installation.

EQUIPMENT AND CONVENIENCE: Tailored solutions for decentralised group supply. Undersink water heaters heat the water directly at the draw-off point. Energy and water losses due to long pipe runs are avoided. No circulation losses. Low energy losses thanks to high grade thermal insulation. Warm or hot water available at any time. Temperature controller with temperature sensor immersed directly in the water. Temperature can be infinitely adjusted between 35 °C and 82 °C via rotary selector. Heat-up signalled by indicator lamp. Pressure-tested copper inner cylinder.

INSTALLATION AND SERVICE:PROFI-RAPID installation system for even quicker and more straightforward installation. Easy replacement as standard fixing points are taken into account. Simple wall mounting with universal mounting rail. Installation template included in standard delivery. Matching safety assemblies available as accessories. Connecting cable with safety plug. Protection rating IP 24 (splashproof).

SAFETY AND QUALITY: Robust copper tubular heater for a long service life. Resettable high limit safety cut-out.

- Quick DHW availability without delay
- Matching safety assemblies as accessories
- Plug-in unit for electrical connection to any standard socket

Part No.	Model	Connected load	Height	Width	Depth
201397	ESH 10 U-P Plus	2 kW	506 mm	296 mm	276 mm

Specification

Model	ESH 10 U-P Plus
Rated capacity	10 l
Power supply	1/N/PE ~ 230 V 50Hz
Rated voltage	230 V
Frequency	50/60 Hz
Standby power consumption/24 h	0.36 kWh
Colour	white
IP-Rating	IP24
Energy efficiency class	A
Weight	8 kg

Small water heater
Small water heater, 10 to 15 litres, oversink, pressure-tested

SH 10 SLi

SMALL WATER HEATER, 10 TO 15 LITRES, OVERSINK, PRESSURE-TESTED

SH 10 to 15 SLi comfort

APPLICATION: SH SL cylinders are suitable for supplying DHW to several draw-off points with low DHW demand. Pressure-tested appliance for use with all commercially available pressure fittings. Installation only with the appropriate safety assembly. Appliance version with 3.3 kW connected load for rapid heat-up. Oversink installation.

EQUIPMENT AND CONVENIENCE: Tailored solutions for decentralised group supply. Oversink water heaters heat the water directly at the draw-off point. Energy and water losses due to long pipe runs are avoided. No circulation losses. Low energy losses thanks to high grade thermal insulation. Warm or hot water available at any time. Temperature controller with temperature sensor immersed directly in the water. Variable temperature selection from 35 °C - 85 °C via rotary selector. Temperature limit at 38 °C, 45 °C, 55 °C and 65 °C, plus automatic frost protection setting when the appliance is off. Heat-up signalled by indicator lamp. Pressure-tested internal steel cylinder with high grade EPS thermal insulation.

INSALLATION AND SERVICE: PROFI-RAPID installation system for quick and straightforward installation. Easy replacement as standard fixing points are taken into account. Simple wall mounting with universal mounting rail. Installation template included in standard delivery. Metal water fittings for secure threaded fitting. Matching safety assemblies available as accessories. Connecting cable with safety plug or power cable for permanent connection. Practical cable storage in the back panel of the appliance to house any excess power cable. Protection rating IP 24 (splashproof).

SAFETY AND QUALITY: Robust copper tubular heater with low surface load. High limit safety cut-out can be reset. Mechanical temperature limit can be set to 38 °C or 45 °C for anti-scalding protection.

- Quick DHW availability without delay
- Electrical connection to any standard socket
- Matching safety assemblies as accessories
- Appliance versions with 10 or 15 litre capacity

Part No.	Model	Connected load	Height	Width	Depth
229476	SH 10 SLi	2 kW	503 mm	295 mm	275 mm
229478	SH 15 SLi	2 kW	601 mm	316 mm	295 mm

Specification

Model	SH 10 SLi	SH 15 SLi
Rated voltage	230 V	230 V
Rated output 1	1,8 kW	1,8 kW
Rated current 1	8,3 A	8,3 A
Fuse 1	10 A	10 A
Frequency	50/60 Hz	50/60 Hz
Rated capacity	10 l	15 l
Power supply	1/N/PE	1/N/PE
Standby energy consumption/24 h at 65 °C	0.34 kWh	0.40 kWh
Colour	white	white
IP-Rating	IP24	IP24
Energy efficiency class	A	A
Weight	8.00 kg	10.50 kg
Phases	1/N/PE	1/N/PE

Small water heater

Small water heater, 10 to 15 litres, oversink, pressure-tested

ESH 10 O-P Plus

ESH 10 O-P Plus

APPLICATION: ESH 10 O-P Plus cylinders are suitable for DHW supply to single or multiple draw-off points with low DHW demand. Pressure-tested appliance for use with all commercially available pressure taps. Installation only with the appropriate safety assembly. Oversink installation.

EQUIPMENT AND CONVENIENCE: Tailored solutions for decentralised group supply. Oversink water heaters heat the water directly at the draw-off point. Energy and water losses due to long pipe runs are avoided. No circulation losses. Low energy losses thanks to high grade thermal insulation. Warm or hot water available at any time. Temperature controller with temperature sensor immersed directly in the water. Temperature can be infinitely adjusted between 35 °C and 82 °C via rotary selector. Heat-up signalled by indicator lamp. Pressure-tested copper inner cylinder.

INSTALLATION AND SERVICE:PROFI-RAPID installation system for even quicker and more straightforward installation. Easy replacement as standard fixing points are taken into account. Simple wall mounting with universal mounting rail. Installation template included in standard delivery. Matching safety assemblies available as accessories. Connecting cable with safety plug. Protection rating IP 24 (splashproof).

SAFETY AND QUALITY: Robust copper tubular heater for a long service life. Resettable high limit safety cut-out.

- Non-pressurised appliance for rapid DHW availability without delay
- Matching safety assemblies as accessories
- Plug-in unit for electrical connection to any standard socket

Part No.	Model	Connected load	Height	Width	Depth
201398	ESH 10 O-P Plus	2 kW	506 mm	296 mm	276 mm

Specification

Model	ESH 10 O-P Plus
Rated capacity	10 l
Power supply	1/N/PE ~ 230 V 50Hz
Rated voltage	230 V
Frequency	50/60 Hz
Standby power consumption/24 h	0.34 kWh
Colour	white
IP-Rating	IP24
Energy efficiency class	A
Weight	8 kg

Small water heater
Small water heater, 10 to 15 litres, oversink, pressure-tested

SVMT

Tees

Safety assembly SVMT

Safety assembly SVMT for sealed small undersink water heaters with 5 or 10 litres capacity. Pressure valve with a max. inlet pressure of 1.6 MPa (16 bar), outlet pressure 0.3 MPa (3 bar) (factory setting). Volume regulating valve with pressure gauge connection G ¼, drain outlet with backup prevention, brass casing, chrome finish.

- Applicable to SHU 5 SL and SHU 10 SL
- Safety valve 0.7 MPa (7 bar)
- For the connection of mains pressure taps
- Test symbol PA-IX 7952/I
- Water manifold (tees) for the connection of a second mains pressure tap

Part No.	Model
073499	SVMT
070558	Tees

KV 40

KV 40

APPLICATION: Safety assembly for pressure-tested (sealed unvented) wall mounted cylinders and small oversink water heaters to DIN 1988, DIN 4753 and EN 1488, up to a max. supply pressure of 0.48 MPa in the cold water line. The assembly includes a shut-off valve, non-return valve and a replaceable diaphragm safety valve with 0.6 MPa response pressure. The overpressure safety valve prevents the permissible operating pressure of the DHW cylinder from being exceeded. The KV 40 safety assembly is also equipped with a pressure reducing valve (pressure reducer). The non-return valve prevents heated water from returning to the mains pipework. The supplied outlet siphon with rose and connection accessories can be used to discharge the expansion water into the drain pipe.
EQUIPMENT: Pressure reducing valve, safety valve, shut-off valve, non-return valve, outlet siphon, rose, chrome plated connection accessories.
INSTALLATION AND SERVICE: The KV 40 safety assembly is installed into the cold water supply line upstream of the DHW cylinder in accordance with specifications. For quick and easy maintenance, the safety valve can be vented via a rotary handle. The pressure reducing valve complying with EN 1567 can reduce an excessively high cold water inlet pressure to the required system pressure. In addition, the cold water supply of the following installation (e.g. a DHW cylinder) can be closed via the shut-off valve for easy servicing. The components of the KV 40 are replaceable.
SAFETY AND QUALITY: The KV 40 safety assembly comprises a high-gloss chrome plated brass body, is manufactured using low-lead processes and is DVGW tested. The safety valve is individually tested. The connection pipes are made from chrome plated copper pipes. The plastic components meet KTW recommendations (for drinking water-approved plastics). All materials are designed and manufactured in line with accepted engineering standards.

- Permissible operating pressure 0.6 MPa (6 bar)
- Pressure reducing valve up to 1.0 MPa (10 bar)
- DVGW test symbol
- Test symbol PA-IX 16709/I

Part No.	Model
238958	KV 40

Small water heater
Small water heater, 10 to 15 litres, oversink, pressure-tested

KV 307

KV 307

APPLICATION: Safety assembly for pressure-tested (sealed unvented) small oversink water heaters with 10 or 15 litres capacity. The assembly includes a shut-off valve, non-return valve and a replaceable diaphragm safety valve with 0.7 MPa response pressure. The overpressure safety valve prevents the permissible operating pressure of the DHW cylinder from being exceeded. The non-return valve prevents heated water from returning to the mains pipework. The supplied outlet siphon with rose and connection accessories can be used to discharge the expansion water into the drain pipe.
EQUIPMENT: Safety valve, shut-off valve, non-return valve, outlet siphon, rose, chrome plated connection accessories.
INSTALLATION AND SERVICE: The KV 307 safety assembly is easily installed into the cold water supply line upstream of the DHW cylinder in accordance with specifications. For quick and easy maintenance, the safety valve can be vented via a rotary handle. In addition, the cold water supply of the following installation (e.g. a DHW cylinder) can be closed via the shut-off valve for easy servicing. The components of the KV 307 are replaceable.
SAFETY AND QUALITY: The KV 307 safety assembly comprises a high-gloss chrome plated brass body, is manufactured using low-lead processes and is DVGW tested. The safety valve is individually tested. The connection pipes are made from chrome plated copper pipes. The plastic components meet KTW recommendations (for drinking water-approved plastics). All materials are designed and manufactured in line with accepted engineering standards.

- Applicable for SH 10 S and SH 15 S
- Safety valve 0.7 MPa (7 bar)
- Test symbol PA-IX 16709/I

Part No.	Model
238959	KV 307

SRT 2

Surface mounted safety assembly SRT 2

Safety assembly SRT 2 for sealed unvented wall mounted water heaters. For horizontal and vertical installation on finished walls.

- Applicable for SH 30-150 S, SHZ 30-150 LCD, SHD 30/100 S, HFA-Z 30-150, SH 30-150 F
- Permissible operating pressure 0.6 MPa (6 bar)
- Brass body

Part No.	Model
230764	SRT 2

Wall mounted cylinder
Wall mounted cylinders 30 to 150 litres

SHZ LCD electronic comfort

WALL MOUNTED CYLINDERS 15 TO 200 LITRES

SHZ 30-150 LCD electronic comfort

APPLICATION: SHZ wall mounted cylinders are suitable for supplying DHW to several draw-off points (single and group supply), e.g. simultaneous supply to bathroom and kitchen. Pressure-tested appliance for use with all commercially available pressure fittings. Non-pressurised option for the supply of one draw-off point. Suitable for dual circuit operation (off-peak tariff), single circuit operation or manual rapid heat-up operation.

EQUIPMENT AND CONVENIENCE: The electronic control unit enables precise temperature adjustment from 20-85 °C using operating buttons. A backlit LCD displays the set temperature, available amount of mixed water, energy consumption, status and service indicator. The unit also features ECO functions for energy saving and a rapid heat-up button for greater convenience during periods of increased DHW demand. This function can also be activated via an external remote button. Adjustable temperature limit from 40-60 °C.

EFFICIENCY: ECO modes can be individually selected for economical operation. An energy consumption display indicates the cumulative energy consumption. The intelligent ECO Dynamic function additionally saves up to 15 % energy while ensuring a high level of DHW convenience. Low energy losses due to high grade thermal insulation. During off-peak tariff operation (dual circuit), an optional reverse control (activated via a DIP switch) can be used to further reduce costs and take full advantage of the off-peak periods offered by the power supply utility. Designed with recycling in mind, the various components can be separated in an environmentally responsible manner.

INSTALLATION AND SERVICE: Choice of connected load between 1-6 kW with removable strain relief for easier installation. Straightforward replacement of all wall mounted cylinders. Recessed grips on the appliance ensure safe handling. Installation template for marking the holes and pre-installation of the water connections. The universal wall mounting bracket ensures quick and easy installation. Also suitable for installation in corners. Standard delivery also includes mounting rail caps and spacers for offset walls. Suitable for installation with plastic, copper or stainless steel pipework systems. The output and operating mode can be selected and adjusted via 2 triple setting DIP switches. An automatic display indicates the level of scale build-up on the flanged immersion heater. Easy to remove flanged immersion heater with non-interchangeable immersion heater plug. Protection rating IP 25 (hoseproof). Drainage facility via air vent valve with hose connection. Large flanged aperture for effective and convenient descaling.

SAFETY AND QUALITY: Universal copper flanged immersion heater suitable for single circuit, dual circuit or manual rapid heat-up operation. Maintenance-free corrosion protection via an automatically regulated titanium impressed current anode. Internal steel cylinder with special „anticor“ enamel coating for a long service life. An adjustable temperature limit and touchscreen locking option offers anti-scalding protection and childproofing. Automatic frost protection monitors the water temperature and prevents the cylinder from freezing.

- Universal flanged immersion heater for dual circuit operation, optional single circuit operation/manual rapid heat-up operation
- Universal flanged immersion heater for dual circuit operation, optional single circuit operation/manual rapid heat-up operation
- Menu selection and display, e.g. variable temperature selection from 20 °C to 85 °C
- 3 automatic ECO functions can be selected: ECO Comfort, ECO Plus, ECO Dynamik
- Optional reverse control in dual circuit mode
- Backlit display
- Automatic scale indicator
- Maintenance free impressed current anode
- DIP switches for selection of operating mode and output switching
- Quick and easy installation (even in corners) using mounting bracket
- Thermal insulation with extremely low heat losses
- Installation also in connection with plastic pipework systems (observe manufacturer‘s details)

Part No.	Model	Rated capacity	Height	Width	Depth
231251	SHZ 30 LCD	30 l	770 mm	410 mm	420 mm
231252	SHZ 50 LCD	50 l	740 mm	510 mm	510 mm
231253	SHZ 80 LCD	80 l	1050 mm	510 mm	510 mm
231254	SHZ 100 LCD	100 l	1050 mm	510 mm	510 mm
231255	SHZ 120 LCD	120 l	1210 mm	510 mm	510 mm
231256	SHZ 150 LCD	150 l	1445 mm	510 mm	510 mm

Specification

Model	SHZ 30 LCD	SHZ 50 LCD	SHZ 80 LCD	SHZ 100 LCD	SHZ 120 LCD	SHZ 150 LCD
Connected load with ~ 230 V	1-4 kW	1-4 kW	1-4 kW	1-4 kW	1-4 kW	1-4 kW
Connected load with ~ 400 V	1-6 kW	1-6 kW	1-6 kW	1-6 kW	1-6 kW	1-6 kW
Power supply	1/N/PE, 2/N/PE, 3/N/PE	1/N/PE, 2/N/PE, 3/N/PE	1/N/PE, 2/N/PE, 3/N/PE	1/N/PE, 2/N/PE, 3/N/PE	1/N/PE, 2/N/PE, 3/N/PE	1/N/PE, 2/N/PE, 3/N/PE
Rated voltage	230/400 V	230/400 V	230/400 V	230/400 V	230/400 V	230/400 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Standby power consumption/24 h	0.46 kWh	0.54 kWh	0.67 kWh	0.86 kWh	0.99 kWh	1.16 kWh
Colour	white	white	white	white	white	white
IP-Rating	IP25	IP25	IP25	IP25	IP25	IP25
Energy efficiency class	A	B	B	C	C	C
Weight	22.90 kg	27.60 kg	37.80 kg	39.50 kg	42.40 kg	52.00 kg

Wall mounted cylinder
Wall mounted cylinders 30 to 150 litres

SH S

SH 30-150 S electronic

APPLICATION: SH S wall mounted cylinders are suitable for supplying several draw-off points (single and group supply), e.g. simultaneous supply to bathroom and kitchen. Pressure-tested appliance for use with all commercially available pressure fittings. Non-pressurised option for the supply of one draw-off point. Suitable for single circuit operation.
EQUIPMENT AND CONVENIENCE: Variable temperature selection from 35 - 82 °C. The usable amount of heat is indicated by seven LED fields on the user interface. Heat-up operation is signalled by an indicator. Adjustable temperature limit can be set to 45 °C, 55 °C or 65 °C.
EFFICIENCY: Low energy losses due to high-grade thermal insulation. Designed with recycling in mind, for environmentally responsible separation of the various components.
INSTALLATION AND SERVICE: Selectable connected load of 1-6 kW with removable strain relief for easier installation. Easy replacement of all wall mounted cylinders. Recessed grips on the appliance ensure safe handling. Installation template for marking the holes and pre-installation of the water connections. The universal wall mounting bracket ensures quick and easy installation. Also suitable for installation in corners. Standard delivery also includes mounting bracket caps and spacers for offset walls. Suitable for installation with plastic, copper or stainless steel pipework systems. Signal anode with immediately visible display indicates consumption level of the protective magnesium anode. The anode can be replaced without removing the flange (50-150 l). Easy to remove flanged immersion heater with non-interchangeable immersion heater plug. Protection rating IP 25 (hoseproof). Drainage facility via air vent valve with hose connection. Large flanged aperture for effective and convenient descaling.
SAFETY AND QUALITY: Universal flanged immersion heater suitable for single circuit operation. High grade magnesium anode with consumption indicator on the user interface display. Internal steel cylinder with special „anticor“ enamel coating for a long service life. Automatic frost protection monitors the water temperature and prevents the cylinder from freezing.

- Universal immersion heater for single circuit operation
- Infinitely variable temperature selection from approx. 35 °C to 82 °C
- Electronic heat content indication via LED in the user interface
- Signal anode with indicator lamp in the user interface; can be replaced without removing the flange (50 - 150 l)
- Backlit display
- Optional temperature limit at 45 °C, 55 °C or 65 °C
- Maintenance free impressed current anode
- Radiator connections through complete flanged plug
- Thermal insulation with extremely low heat losses
- Installation also in connection with plastic pipework systems (observe manufacturer‘s details)

Part No.	Model	Rated capacity	Height	Width	Depth
073047	SH 30 S	30 l	770 mm	410 mm	420 mm
073048	SH 50 S	50 l	740 mm	510 mm	510 mm
073049	SH 80 S	80 l	1050 mm	510 mm	510 mm
073050	SH 100 S	100 l	1050 mm	510 mm	510 mm
073051	SH 120 S	120 l	1210 mm	510 mm	510 mm
073052	SH 150 S	150 l	1445 mm	510 mm	510 mm

Specification

Model	SH 30 S	SH 50 S	SH 80 S	SH 100 S	SH 120 S	SH 150 S
Connected load with ~ 230 V	1-4 kW	1-4 kW	1-4 kW	1-4 kW	1-4 kW	1-4 kW
Connected load with ~ 400 V	3-6 kW	3-6 kW	3-6 kW	3-6 kW	3-6 kW	3-6 kW
Power supply	1/N/PE, 2/N/PE, 3/N/PE	1/N/PE, 2/N/PE, 3/N/PE	1/N/PE, 2/N/PE, 3/N/PE	1/N/PE, 2/N/PE, 3/N/PE	1/N/PE, 2/N/PE, 3/N/PE	1/N/PE, 2/N/PE, 3/N/PE
Rated voltage	230/400 V	230/400 V	230/400 V	230/400 V	230/400 V	230/400 V
Frequency	50/- Hz	50/- Hz	50/- Hz	50/- Hz	50/- Hz	50/- Hz
Standby power consumption/24 h	0.46 kWh	0.54 kWh	0.67 kWh	0.86 kWh	0.99 kWh	1.10 kWh
Colour	white	white	white	white	white	white
IP-Rating	IP25	IP25	IP25	IP25	IP25	IP25
Energy efficiency class	B	C	C	C	C	C
Weight	23.10 kg	28.00 kg	38.00 kg	40.80 kg	45.50 kg	53.30 kg

Wall mounted cylinder
Wall mounted cylinders 30 to 150 litres

PSH 100 Universal/ EL

PSH 30-150 Universal EL

Angular wall mounted sealed unvented DHW cylinder with directly applied foam insulation and enamelled internal steel cylinder. Flanged immersion heater with protective anode. The appliance is electronically operated. The integral PCB holds 3 ECO economy programs.The display shows the set temperature.Functions such as frost protection, temperature limit and rapid heat-up (manual) are part of the standard features. The ceramic heating element is located inside an enamelled protective pipe and does not come into contact with the DHW. This enables dry replacement of the heating elements. The PCB facilitates variable temperature selection.The temperature can be set to between 7 °C and 85 °C.These cylinders can be installed vertically or horizontally.

- ECO Comfort function (temperature setback from 85 °C to 60 °C)
- ECO Plus function (60 °C set temperature and 60 % charging level)
- ECO Dynamic function (intelligent dynamic matching to the draw-off pattern)
- Intelligent self-learning electronics
- Selection of operating modes (single circuit, dual circuit or manual rapid heat-up) via DIP switch on the PCB
- Installation on-end and across
- Modern design with intuitive user interface
- Protected ceramic heating element (dry resistance). Replaceable without draining
- Additional function temperature limit 40 °C-60 °C
- Enamelled steel cylinder
- Protective anode
- Temperature curve display
- Frost protection function at 7 °C
- Integral key lock

Part No.	Model	Rated capacity	Height	Width	Depth
231150	PSH 30 Universal EL	30 l	696 mm	380 mm	392 mm
231151	PSH 50 Universal EL	50 l	951 mm	380 mm	392 mm
231152	PSH 80 Universal EL	80 l	893 mm	475 mm	492 mm
231153	PSH 100 Universal EL	100 l	1045 mm	475 mm	492 mm
231649	PSH 120 Universal EL	120 l	1200 mm	475 mm	492 mm
231154	PSH 150 Universal EL	150 l	1435 mm	475 mm	492 mm

Safety valve part of the standard delivery

Specification

Model	PSH 30 Universal EL	PSH 50 Universal EL	PSH 80 Universal EL	PSH 100 Universal EL	PSH 120 Universal EL	PSH 150 Universal EL
Connected load with ~ 230 V	2,6 kW	3 kW	3 kW	3 kW	3 kW	3 kW
Phases	1/N/PE	1/N/PE	1/N/PE	1/N/PE	1/N/PE	1/N/PE
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Standby energy consumption/24 h at 65 °C, vertical	0.52 kWh	0.76 kWh	0.79 kWh	0.91 kWh	1.05 kWh	1.19 kWh
Standby energy consumption/24 h at 65 °C, horizontal	0.75 kWh	1.05 kWh	1.07 kWh	1.36 kWh	1.31 kWh	1.55 kWh
Single circuit operating mode	X	X	X	X	X	X
Dual circuit operating mode	X	X	X	X	X	X
Manual rapid heat-up operating mode	X	X	X	X	X	X
IP rating horizontal	IP24	IP24	IP24	IP24	IP24	IP24
IP rating vertical	IP25	IP25	IP25	IP25	IP25	IP25
Max. permissible pressure	0.6 MPa	0.6 MPa	0.6 MPa	0.6 MPa	0.6 MPa	0.6 MPa
Weight (wet)	52 kg	78 kg	114 kg	138 kg	163 kg	202 kg
Colour	white	white	white	white	white	white

Wall mounted cylinder
Wall mounted cylinders 30 to 200 litres

PSH 80 Trend

PSH 30-200 Trend

Sealed unvented (pressure-tested) electric water heater in a new design, for supplying one or more draw-off points. Variable temperature selection from 35 °C - 75 °C plus automatic reheating when the selected temperature is undershot, plus frost protection setting. Internal steel cylinder with CoPro special enamel coating and protective anode for a particularly long service life. Only suitable for operation as a pressure appliance with appropriate safety assembly. Easy installation thanks to universal wall mounting bracket.

- New ergonomic design
- Infinitely variable temperature selection from 35 °C to 75 °C
- Vertical installation
- Installation also in connection with plastic pipework systems (observe manufacturer's details)
- Replacemnet stainless steel heating flange
- Single circuit operation

Part No.	Model	Rated capacity	Connected load with ~ 230 V	Height	Diameter
232080	PSH 30 Trend	30 l	2 kW	642 mm	405 mm
232081	PSH 50 Trend	50 l	2 kW	897 mm	405 mm
232082	PSH 80 Trend	80 l	2 kW	871 mm	510 mm
232083	PSH 100 Trend	100 l	2 kW	1025 mm	510 mm
232084	PSH 120 Trend	120 l	2 kW	1178 mm	510 mm
232085	PSH 150 Trend	150 l	2 kW	1410 mm	510 mm
232086	PSH 200 Trend	192 l	2 kW	1715 mm	510 mm

Specification

Model	PSH 30 Trend	PSH 50 Trend	PSH 80 Trend	PSH 100 Trend	PSH 120 Trend	PSH 150 Trend	PSH 200 Trend
Connected load with ~ 230 V	2 kW	2 kW	2 kW	2 kW	2 kW	2 kW	2 kW
Power supply	1/N/PE 220-240 V 50/60 Hz	1/N/PE 220-240 V 50/60 Hz	1/N/PE 220-240 V 50/60 Hz	1/N/PE 220-240 V 50/60 Hz	1/N/PE 220-240 V 50/60 Hz	1/N/PE 220-240 V 50/60 Hz	1/N/PE 220-240 V 50/60 Hz
Rated voltage	220-240 V	220-240 V	220-240 V	220-240 V	220-240 V	220-240 V	220-240 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Standby energy consumption/24 h at 65 °C	0.53 kWh	0.73 kWh	0.79 kWh	0.98 kWh	1.15 kWh	1.33 kWh	1.61 kWh
Energy efficiency class	C	C	C	C	C	C	C
Colour	white	white	white	white	white	white	white
IP-Rating	IP25	IP25	IP25	IP25	IP25	IP25	IP25
Weight (dry)	16.4 kg	21.4 kg	28.2 kg	33.6 kg	39.1 kg	46.2 kg	56.3 kg

Wall mounted cylinder
Wall mounted cylinders 50 to 200 litres

PSH classic

PSH 50-200 classic

APPLICATION: PSH classic wall mounted cylinders are suitable for supplying DHW to several draw-off points (single and group supply), e.g. simultaneous supply to bathroom and kitchen. Pressure-tested appliance (round version) for use with all commercially available pressure fittings. Suitable for single circuit operation.

EQUIPMENT AND CONVENIENCE: Variable temperature selection from 7-70 °C. Heat-up operation is signalled by an indicator. The current water temperature can be conveniently read from the temperature curve display at the front of the outer jacket.

EFFICIENCY: High grade 28 mm PU foam insulation guarantees low heat loss. Designed with recycling in mind, the various components can be separated in an environmentally responsible manner.

INSTALLATION AND SERVICE: The connected load is only 1.8 kW. Straightforward replacement of all wall mounted cylinders. The universal wall mounting bracket ensures quick and easy installation. Suitable for installation with plastic, copper or stainless steel pipework systems. Easy to remove flanged copper immersion heater. Protection rating IP 24.

SAFETY AND QUALITY: A high grade magnesium anode protects the cylinder against corrosion. Resettable high limit safety cut-out. Internal steel cylinder with special „anticor“ enamel coating for a long service life. Automatic frost protection monitors the water temperature and prevents the cylinder from freezing.

- Efficient single circuit operation with a 1.8 kW connected load
- Variable temperature selection between 7 °C and 70 °C using rotary selector at the front
- Temperature curve display for visual check of the water temperature
- Anode with long service life for optimum cylinder protection
- High grade thermal insulation for low energy losses
- Frost protection integrated in the DHW cylinder
- Can also be installed with plastic pipework systems

Part No.	Model	Rated capacity	Connected load with ~ 230 V	Height	Diameter
235960	PSH 50 Classic	53 l	1,8 kW	609 mm	475 mm
235961	PSH 80 Classic	80 l	1,8 kW	810 mm	475 mm
235962	PSH 100 Classic	100 l	1,8 kW	964 mm	475 mm
235963	PSH 120 Classic	120 l	1,8 kW	1117 mm	475 mm
235964	PSH 150 Classic	150 l	1,8 kW	1349 mm	475 mm
235965	PSH 200 Classic	192 l	1,8 kW	1704 mm	475 mm

Specification

Model	PSH 50 Classic	PSH 80 Classic	PSH 100 Classic	PSH 120 Classic	PSH 150 Classic	PSH 200 Classic
Connected load with ~ 230 V	1,8 kW	1,8 kW	1,8 kW	1,8 kW	1,8 kW	1,8 kW
Power supply	1/N/PE	1/N/PE	1/N/PE	1/N/PE	1/N/PE	1/N/PE
Rated voltage	220-240 V	220-240 V	220-240 V	220-240 V	220-240 V	220-240 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Standby energy consumption/24 h at 65 °C	0.96 kWh	1.22 kWh	1.47 kWh	1.73 kWh	2.05 kWh	2.45 kWh
Energy efficiency class	C	C	C	C	C	C
Colour	white	white	white	white	white	white
IP-Rating	IP24	IP24	IP24	IP24	IP24	IP24
Weight (dry)	19 kg	24 kg	28 kg	32 kg	39 kg	50 kg

Wall mounted cylinder
Instantaneous water heating cylinder

SHD S

INSTANTANEOUS WATER HEATING CYLINDER

SHD 30 S and SHD 100 S

APPLICATION: SHD S wall mounted cylinders are suitable for supplying several draw-off points (single and group supply), e.g. simultaneous supply to bathroom and kitchen. Pressure-tested appliance for use with all commercially available pressure fittings. Can be used as a powerful 21 kW instantaneous water cylinder in dual circuit operation (off-peak tariff) or single circuit operation.

EQUIPMENT AND CONVENIENCE: Automatic direct water heating in instantaneous water cylinder operation with a heating output of 21 kW when large amounts of water are drawn off. Variable temperature selection from 35 - 82 °C. Heat-up operation is signalled by an indicator. Key for rapid heat-up (21 kW, boost function) in dual circuit operation.

EFFICIENCY: Low energy losses due to high-grade thermal insulation. Extremely economical due to favourable electricity tariffs (optional off-peak tariff connection). Designed with recycling in mind, for environmentally responsible separation of the various components.

INSTALLATION AND SERVICE: Selectable connected load of 3.5 kW or 21 kW with removable strain relief for easier installation. Easy replacement of all wall mounted cylinders. Recessed grips on the appliance ensure safe handling. Installation template for marking the holes and pre-installation of the water connections. The universal wall mounting bracket ensures quick and easy installation. Also suitable for installation in corners. Suitable for installation with plastic, copper or stainless steel pipework systems. Signal anode with display indicates consumption level of the protective magnesium anode. The anode can be replaced without removing the flange. Easy to remove flanged immersion heater. Protection rating IP 25 (hoseproof). Drainage facility via air vent valve with hose connection. Large flanged aperture for effective and convenient descaling.

SAFETY AND QUALITY: Special flanged immersion heater for instantaneous water cylinder for single/dual circuit operation. High grade magnesium anode with consumption indicator on the user interface. Internal steel cylinder with special „anticor“ enamel coating for a long service life. Automatic frost protection monitors the water temperature and prevents the cylinder from freezing.

- Instantaneous cylinder operation: 3.5 kW standard heating and 21 kW automatic for a larger draw-off volume
- Optional single circuit operation: 21 kW
- Optional dual-circuit operation: 3.5 kW / 21 kW
- Key for rapid heat-up (21 kW) for dual-circuit operation
- Infinitely variable temperature selection from approx. 35 °C to approx. 82 °C
- Heat-up display (for high output) in the user interface
- Signal anode with indicator lamp in the user interface; can be replaced without removing the flange
- Backlit display
- Quick and easy installation using mounting bracket and drilling template
- Radiator connections through complete flanged plug
- Drain valve with G 3/4 hose connection

Part No.	Model	Rated capacity	Height	Width	Depth
073059	SHD 30 S	30 l	770 mm	410 mm	420 mm
073060	SHD 100 S	100 l	1050 mm	510 mm	510 mm

Specification

Model	SHD 30 S	SHD 100 S
Connected load with ~ 400 V	3,5/21 kW	3,5/21 kW
Power supply	3/PE	3/PE
Rated voltage	400 V	400 V
Frequency	50 Hz	50 Hz
Standby power consumption/24 h	0.46 kWh	0.86 kWh
Colour	white	white
IP-Rating	IP25	IP25
Energy efficiency class	B	C
Weight	24.30 kg	40.10 kg

Wall mounted cylinder
Wall mounted DHW cylinder with DHW heat pump

LWA 100

WALL MOUNTED DHW CYLINDER WITH DHW HEAT PUMP

Compact series LWA 100 | Wall mounted for smaller to medium size apartments
APPLICATION: The wall mounted compact appliance is suitable for supplying DHW to several draw-off points (single and group supply), e.g. simultaneous supply to bathroom and kitchen and for ventilating small to medium sized apartments. A heat pump unit stores the heat recovered from the extract air in the DHW cylinder. Decentralised supply air routing via external wall vents. Pressure-tested appliance for use with all commercially available pressure fittings.
EQUIPMENT AND CONVENIENCE: Variable temperature selection from 35-85 °C. Display for operating the compressor and fan. Rotary selector for three fan stages: standard mode, setback mode, party mode. Button for rapid heat-up (boost function) in the event of increased DHW demand.
EFFICIENCY: The integral heat pump enables inexpensive DHW heating by recovering heat from the extract air. Low energy losses due to high grade thermal insulation. Designed with recycling in mind, the various components can be separated in an environmentally responsible manner.
INSTALLATION AND SERVICE: 3 kW connected load for DHW reheating. Suitable for installation with plastic, copper or stainless steel pipework systems. Protection rating IP 24.
SAFETY AND QUALITY: High grade magnesium anode. Internal steel cylinder with special „anticor“ enamel coating for a long service life. Automatic frost protection monitors the water temperature and prevents the cylinder from freezing.

- Compact appliances offering the following functions: Ventilation and DHW heating
- With facia to cover the air connections
- Optional air inlet in the installation room via the facia
- Automatic ventilation independent of tenant behaviour
- Easy calculation of additional costs
- Maintenance of the fabric of the building

Part No.	Model	Height	Width	Depth	Air flow rate
221470	LWA 100	1290 mm	510 mm	510 mm	60-130 m³/h

Specification

Model	LWA 100
Energy efficiency class, DHW heating (extract air), load profile M	A
Rated capacity	100 l
HP DHW temperature	55 °C
Max. DHW temperature	80 °C
Electric emergency/booster heater	3 kW
Nominal DHW temperature (EN 16147)	55 °C
Nominal load profile (EN16147)	M
Maximum available amount of DHW at 40 °C (EN 16147 / A20 extract air)	138 l
Average heating output (EN 16147 / A20 extract air)	0.80 kW
Heat-up time (EN 16147 / A20 extract air)	7,15 h
Average heat pump power consumption (EN 16147 / A20 extract air)	0.30 kW
Power consumption, standby period (EN 16147 / A20 extract air)	0,017 kW
Performance factor (EN 16147 / A20 extract air)	2.26
Air connector diameter	125 mm
Refrigerant	R290
Refrigerant capacity	0,15 kg
Application range min./max.	15...30 °C
Weight	65 kg
Sound power level (EN 12102)	45 dB(A)
Filter class	ISO Coarse > 30 % (G2)

Wall mounted cylinder
Safety assemblies for wall mounted cylinder

SAFETY ASSEMBLIES FOR WALL MOUNTED CYLINDER

KV 30

KV 30

APPLICATION: Safety assembly for pressure-tested (sealed unvented) wall mounted cylinders with capacities of up to 200 litres, in compliance with DIN 1988, DIN 4753 and EN 1488, up to a maximum supply pressure of 0.48 MPa in the cold water line. The assembly includes a shut-off valve, non-return valve and a replaceable diaphragm safety valve with 0.6 MPa response pressure. The overpressure safety valve prevents the permissible operating pressure of the DHW cylinder from being exceeded. The non-return valve prevents heated water from returning to the mains pipework. The supplied outlet siphon with rose and connection accessories can be used to discharge the expansion water into the drain pipe.
EQUIPMENT: Safety valve, shut-off valve, non-return valve, outlet siphon, rose, chrome plated connection accessories.
INSTALLATION AND SERVICE: The KV 30 safety assembly is easily installed into the cold water supply line upstream of the DHW cylinder in accordance with specifications. For quick and easy maintenance, the safety valve can be vented via a rotary handle. In addition, the cold water supply of the following installation (e.g. a DHW cylinder) can be closed via the shut-off valve for easy servicing. The components of the KV 30 are replaceable.
SAFETY AND QUALITY: The KV 30 safety assembly comprises a high-gloss chrome plated brass body, is manufactured using low-lead processes and is DVGW tested. The safety valve is individually tested. The connection pipes are made from chrome plated copper pipes. The plastic components meet KTW recommendations (for drinking water-approved plastics). All materials are designed and manufactured in line with accepted engineering standards.

- Permissible operating pressure 0.6 MPa (6 bar)
- DVGW test symbol
- Test symbol PA-IX 16709/I

Part No.	Model
238957	KV 30

KV 40

KV 40

APPLICATION: Safety assembly for pressure-tested (sealed unvented) wall mounted cylinders and small oversink water heaters to DIN 1988, DIN 4753 and EN 1488, up to a max. supply pressure of 0.48 MPa in the cold water line. The assembly includes a shut-off valve, non-return valve and a replaceable diaphragm safety valve with 0.6 MPa response pressure. The overpressure safety valve prevents the permissible operating pressure of the DHW cylinder from being exceeded. The KV 40 safety assembly is also equipped with a pressure reducing valve (pressure reducer). The non-return valve prevents heated water from returning to the mains pipework. The supplied outlet siphon with rose and connection accessories can be used to discharge the expansion water into the drain pipe.
EQUIPMENT: Pressure reducing valve, safety valve, shut-off valve, non-return valve, outlet siphon, rose, chrome plated connection accessories.
INSTALLATION AND SERVICE: The KV 40 safety assembly is installed into the cold water supply line upstream of the DHW cylinder in accordance with specifications. For quick and easy maintenance, the safety valve can be vented via a rotary handle. The pressure reducing valve complying with EN 1567 can reduce an excessively high cold water inlet pressure to the required system pressure. In addition, the cold water supply of the following installation (e.g. a DHW cylinder) can be closed via the shut-off valve for easy servicing. The components of the KV 40 are replaceable.
SAFETY AND QUALITY: The KV 40 safety assembly comprises a high-gloss chrome plated brass body, is manufactured using low-lead processes and is DVGW tested. The safety valve is individually tested. The connection pipes are made from chrome plated copper pipes. The plastic components meet KTW recommendations (for drinking water-approved plastics). All materials are designed and manufactured in line with accepted engineering standards.

- Permissible operating pressure 0.6 MPa (6 bar)
- Pressure reducing valve up to 1.0 MPa (10 bar)
- DVGW test symbol
- Test symbol PA-IX 16709/I

Part No.	Model
238958	KV 40

SRT 2

SRT 2

Safety assembly SRT 2 for sealed unvented wall mounted water heaters. For horizontal and vertical installation on finished walls.

- Permissible operating pressure 0.6 MPa (6 bar)
- Brass body

Part No.	Model
230764	SRT 2

SV EX

Safety valve for wall mounted water heaters.

Part No.	Model	Suitable for	Connection
073945	SV EX ½	PSH 30-50	G ½
073946	SV EX ¾	PSH 80-200	G ¾

Wall mounted cylinder
Accessories for wall mounted water heaters

Hood KV

ACCESSORIES FOR WALL MOUNTED WATER HEATERS

Safety assembly cover for SH/SHZ, HFA and SHD
For safety assemblies KV 30, KV 40. Suitable for wall mounted cylinders as of model year 1994 with part no. 073... .

Part No.	Model
074143	Hood KV

Wall mounted cylinder
Fittings for wall cylinders, non-pressurised operation

FITTINGS FOR WALL CYLINDERS, NON-PRESSURISED OPERATION

WKM

WDM

WBM

Twin lever taps series elnor

Part No.	Model
232605	WKM
232606	WDM
232607	WBM

Specification

Model	WKM	WDM	WBM
Type of installation	Wall mounted mixer tap	Wall mounted mixer tap	Wall mounted mixer tap
Connection	Brass pipes	Brass pipes	Brass pipes
Surface	chrome finish	chrome finish	chrome finish
Water connection	G ½	G ½	G ½

MEK/MEKD

MED

MEB/MEBD

Mono-lever mixer taps series elnor pin

Part No.	Model
232608	MEK
232609	MED
232610	MEB

Specification

Model	MEK	MED	MEB
Water connection	G ½	G ½	
Type of installation	Wall mounted mixer tap	Wall mounted mixer tap	Wall mounted mixer tap
Connection	Brass pipes	Brass pipes	Brass pipes
Surface	chrome finish	chrome finish	chrome finish
Reach	185 mm		87 mm

Wall mounted cylinder
Wall mounted cylinder with indirect coil

PSH WE

WALL MOUNTED CYLINDER WITH INDIRECT COIL

PSH 80-200 WE

APPLICATION: PSH WE combi cylinders are suitable for DHW supply to multiple draw-off points (single and group supply), e.g. simultaneous supply to bathroom and kitchen. Indirect cylinders have a stainless steel electric tubular heater and an indirect coil for connecting to a central heating system, for example. Pressure-tested appliance for use with all commercially available pressure taps. Option of non-pressurised version for supplying one draw-off point.

EQUIPMENT AND CONVENIENCE: Temperature can be infinitely adjusted between 7 and 75 °C. Heat-up operation is signalled by an indicator. Temperature curve display for checking the current water temperature.

EFFICIENCY: Low energy losses thanks to high quality thermal insulation. Very economical thanks to inexpensive connection to heating system via the integral indirect coil. Designed with recycling in mind, for environmentally responsible separation of the various components.

INSTALLATION AND SERVICE: Straightforward replacement of all standard wall mounted cylinders. Recessed grips on the appliance ensure safe handling. The universal wall mounting bracket ensures quick and straightforward installation. Suitable for installation with plastic, copper or stainless steel pipework systems. The flange is equipped with a second sensor conduit for external control of the heat generator. A DHW circulation connection increases DHW convenience in longer pipe networks. Easy to remove flanged immersion heater. Protection rating IP 25. Large flanged aperture for effective and convenient descaling

Different models with connection to indirect coil on left (PSH WE-L) or right (PSH WE-R). Additional variants for horizontal installation (PSH WE-H).

SAFETY AND QUALITY: High grade magnesium anode. Inner steel cylinder with special „anticor“ enamel coating for a long service life. Automatic frost protection monitors the water temperature and prevents the cylinder from freezing.

- Heat exchanger connection and electric heating element for individual DHW convenience
- High energy efficiency thanks to optimum thermal insulation
- Universal wall mounting bracket for quick and easy installation
- DHW circulation connection increases DHW convenience in longer pipe networks

Part No.	Model	Rated capacity	Height	Diameter
236230	PSH 80 WE-L	79 l	871 mm	510 mm
236231	PSH 80 WE-R	79 l	871 mm	510 mm
236232	PSH 120 WE-L	120 l	1178 mm	510 mm
236233	PSH 120 WE-R	120 l	1178 mm	510 mm
236234	PSH 150 WE-L	151 l	1410 mm	510 mm
236235	PSH 150 WE-R	151 l	1410 mm	510 mm
236236	PSH 200 WE-L	191 l	1715 mm	510 mm
236237	PSH 200 WE-R	191 l	1715 mm	510 mm
236238	PSH 80 WE-H	79 l		510 mm
236239	PSH 120 WE-H	120 l		510 mm
236240	PSH 150 WE-H	151 l		510 mm
236241	PSH 200 WE-H	191 l		510 mm

Specification

Model	PSH 80 WE-L	PSH 80 WE-R	PSH 120 WE-L	PSH 120 WE-R	PSH 150 WE-L	PSH 150 WE-R	PSH 200 WE-L	PSH 200 WE-R	PSH 80 WE-H	PSH 120 WE-H	PSH 150 WE-H	PSH 200 WE-H
Connected load with ~ 230 V	2 kW	2 kW	2 kW	2 kW	2 kW	2 kW	2 kW	2 kW	2 kW	2 kW	2 kW	2 kW
Rated voltage	220-240 V	220-240 V	220-240 V	220-240 V	220-240 V	220-240 V	220-240 V	220-240 V	220-240 V	220-240 V	220-240 V	220-240 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Phases	1/N/PE	1/N/PE	1/N/PE	1/N/PE	1/N/PE	1/N/PE	1/N/PE	1/N/PE	1/N/PE	1/N/PE	1/N/PE	1/N/PE
Standby energy consumption/ 24 h at 65 °C	0.93 kWh	0.93 kWh	1.17 kWh	1.17 kWh	1.49 kWh	1.49 kWh	1.71 kWh	1.71 kWh	1.04 kWh	1.41 kWh	1.81 kWh	1.67 kWh
Energy efficiency class	B	B	B	B	C	C	C	C	C	C	C	C
Colour	white	white	white	white	white	white	white	white	white	white	white	white
IP-Rating	IP25	IP25	IP25	IP25	IP25	IP25	IP25	IP25	IP25	IP25	IP25	IP25
Weight (dry)	37.2 kg	37.2 kg	48.1 kg	48.1 kg	55.2 kg	55.2 kg	65.3 kg	65.3 kg	42.2 kg	54.1 kg	61.2 kg	72.5 kg

Wall mounted cylinder

Wall mounted cylinder with indirect coil

PSH W

PSH 80-120 W

APPLICATION: PSH W indirect wall mounted cylinders are suitable for DHW supply to multiple draw-off points (single and group supply), e.g. simultaneous supply to bathroom and kitchen. The cylinders have an indirect coil for connecting to a central heating system, for example. The preferred DHW temperature is set via the control unit of the external heat generator or circulation pump. Pressure-tested appliance for use with all commercially available pressure taps. Non-pressurised option for the supply of one draw-off point.

EQUIPMENT AND CONVENIENCE: The water is heated via an indirect coil. Temperature curve display for checking the current water temperature.

EFFICIENCY: Low energy losses thanks to high quality thermal insulation. Very economical thanks to inexpensive connection to heating system via the integral indirect coil. Designed with recycling in mind, for environmentally responsible separation of the various components.

INSTALLATION AND SERVICE: Straightforward replacement of all standard wall mounted cylinders. Recessed grips on the appliance ensure safe handling. The universal wall mounting bracket ensures quick and straightforward installation. Suitable for installation with plastic, copper or stainless steel pipework systems. The flange is equipped with a sensor conduit for external control of the heat generator. A DHW circulation connection increases DHW convenience in longer pipe networks. Protection rating IP 25: Large flanged aperture for effective and convenient descaling
Different models with indirect coil connections on left (PSH W-L) or right (PSH W-R)

SAFETY AND QUALITY: High grade magnesium anode. Inner steel cylinder with special „anticor“ enamel coating for a long service life.

- Indirect wall mounted cylinder with indirect coil
- High energy efficiency thanks to minimal standby energy losses
- DHW circulation connection increases DHW convenience in longer pipe networks

Part No.	Model	Rated capacity	Height	Diameter
236242	PSH 80 W-L	81 l	891 mm	510 mm
236243	PSH 80 W-R	81 l	891 mm	510 mm
236244	PSH 120 W-L	119 l	1178 mm	510 mm
236245	PSH 120 W-R	119 l	1178 mm	510 mm

Specification

Model	PSH 80 W-L	PSH 80 W-R	PSH 120 W-L	PSH 120 W-R
Standby energy consumption/24 h at 65 °C	0.93 kWh	0.93 kWh	1.17 kWh	1.17 kWh
Energy efficiency class	B	B	B	B
Colour	white	white	white	white
IP-Rating	IP25	IP25	IP25	IP25
Weight (dry)	46 kg	46 kg	57 kg	57 kg

Freestanding cylinder
Freestanding DHW cylinder 200 to 1000 litres

SHW 300 S

FREESTANDING DHW CYLINDER 200 TO 1000 LITRES

SHW 200, 300, 400 S

APPLICATION: SHW S floorstanding cylinders are suitable for providing DHW in detached houses or apartment buildings with a high DHW demand and a high draw-off rate. Simultaneous supply of multiple draw-off points (group supply). Sealed unvented, pressure-tested appliance for use with all commercially available pressure taps. Suitable for dual circuit operation (off-peak tariff) or single circuit operation.

EQUIPMENT AND CONVENIENCE: Variable temperature selection from 35 - 82 °C. Water temperature is maintained at the selected temperature by the controller. Key for rapid heat-up (boost function) in the event of increased DHW demand, incl. connection for a remote control. Adjustable temperature limit can be set to 45 °C or 60 °C.

EFFICIENCY: Controller-limiter combination with omnipolar separation and switch for output selection. Minimal heat losses due to the excellent 90 mm thermal insulation (efficient directly applied foam). Designed with recycling in mind, for separating the various components and resources.

INSTALLATION AND SERVICE: Selectable connected load of 2-6 kW. Standard delivery includes a multi-directional stainless steel cold water inlet pipe for easy installation of the cold water connection. Uneven floors can be compensated for using the height-adjustable feet. The water connection is suitable for pipework made from copper, plastic, stainless steel or zinc-plated steel. A DHW circulation connection increases DHW convenience in longer pipe networks. Easy to replace flanged copper immersion heater, protection rating IP 24.

SAFETY AND QUALITY: Universal flanged immersion heater suitable for single/dual circuit. High grade magnesium anode with anode consumption indicator (signal anode). Internal steel cylinder with special „anticor“ enamel coating for a long service life. Automatic frost protection monitors the water temperature and prevents the cylinder from freezing.

- Universal flanged immersion heater for single/dual circuit operation with a selectable connected load of 2-6 kW
- Energy cost savings thanks to the low standby energy consumption ensured by a high grade 90 mm thermal insulation (directly applied foam)
- Extremely economical due to favourable electricity tariffs (optional off-peak tariff connection)
- Variable temperature selection from 35 - 82 °C for high level of convenience
- Optional temperature limit at 45 °C or 60 °C
- Internal steel cylinder with special „anticor“ enamel coating for a long service life.
- Key for rapid heat-up (boost function) including remote control connection
- Thermometer to check the water temperature and signal anode with display element
- Improved comfort/convenience with DHW circulation connection
- Automatic frost protection
- Installation with all standard pipe system materials such as copper, plastic or stainless steel
- Pivoting stainless steel cold water inlet pipe included in standard delivery
- Complete cylinder casing with plastic jacket, lid and fascia
- Compensation for uneven floors via height adjustable feet

Part No.	Model	Rated capacity	Height	Width	Depth
182120	SHW 200 S	200 l	1578 mm	630 mm	730 mm
182121	SHW 300 S	300 l	1593 mm	700 mm	815 mm
182122	SHW 400 S	400 l	1763 mm	750 mm	865 mm

Specification

Model	SHW 200 S	SHW 300 S	SHW 400 S
Connected load with ~ 230 V	2-4 kW	2-4 kW	2-4 kW
Connected load with ~ 400 V	2-6 kW	2-6 kW	2-6 kW
Power supply	1/N/PE, 3/N/PE	1/N/PE, 3/N/PE	1/N/PE, 3/N/PE
Rated voltage	230/400 V	230/400 V	230/400 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Water connection	G 1 A	G 1 A	G 1 A
Weight	65 kg	77 kg	90 kg
Standby power consumption/24 h	1.40 kWh	1.80 kWh	2.10 kWh
Colour	pure white / basalt grey	pure white / basalt grey	pure white / basalt grey
IP-Rating	IP24	IP24	IP24
Max. permissible pressure	0.60 MPa	0.60 MPa	0.60 MPa
Energy efficiency class	C	C	C

Freestanding cylinder
Freestanding DHW cylinder 200 to 400 litres

SHW ACE

SHW 200, 300, 400 ACE

APPLICATION: SHW ACE floorstanding cylinders are suitable for providing DHW in detached houses or apartment buildings with a high DHW demand and a high draw-off rate. Simultaneous supply of multiple draw-off points (group supply). Sealed unvented, pressure-tested appliance for use with all commercially available pressure taps. Suitable for single circuit operation.

EQUIPMENT AND CONVENIENCE: Variable temperature selection from 35 - 82 °C. Water temperature is maintained at the selected temperature by the controller. Adjustable temperature limit can be set to 45 °C or 60 °C.

EFFICIENCY: Controller-limiter combination with omnipolar separation. Low heat losses due to high grade 50 mm thermal insulation (efficient directly applied foam). Designed with recycling in mind, for separating the various components and resources.

INSTALLATION AND SERVICE: Selectable connected load of 1-6 kW. The water connection is suitable for pipework made from copper, plastic, stainless steel or zinc-plated steel. A DHW circulation connection increases DHW convenience in longer pipe networks. Easy to replace flanged copper immersion heater, protection rating IP 24.

SAFETY AND QUALITY: Individual flanged immersion heater suitable for single circuit operation. High grade signal anode with consumption indicator. Internal steel cylinder with special „anticor“ enamel coating for a long service life. Automatic frost protection monitors the water temperature and prevents the cylinder from freezing.

- Universal immersion heater for single circuit operation
- Energy cost savings thanks to the low standby energy consumption ensured by high grade thermal insulation
- Variable temperature selection from 35 - 82 °C for high level of convenience
- Internal steel cylinder with special „anticor“ enamel coating for a long service life.
- Signal anode with visible display element
- Improved comfort/convenience with DHW circulation connection
- Automatic frost protection
- Plastic jacket to protect the cylinder

Part No.	Model	Rated capacity	Height	Width	Depth
070074	SHW 200 ACE	200 l	1578 mm	550 mm	690 mm
070075	SHW 300 ACE	300 l	1593 mm	650 mm	790 mm
070076	SHW 400 ACE	400 l	1763 mm	700 mm	840 mm

Specification

Model	SHW 200 ACE	SHW 300 ACE	SHW 400 ACE
Connected load with ~ 230 V	2-6 kW	2-6 kW	2-6 kW
Connected load with ~ 400 V	4-6 kW	4-6 kW	4-6 kW
Power supply	1/N/PE, 3/N/PE	1/N/PE, 3/N/PE	1/N/PE, 3/N/PE
Rated voltage	230/400 V	230/400 V	230/400 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Water connection	G 1	G 1	G 1
Weight	54 kg	67 kg	85 kg
Standby power consumption/24 h	1.90 kWh	2.30 kWh	2.60 kWh
Colour	white	white	white
IP-Rating	IP25	IP25	IP25
Energy efficiency class	C	C	C

Freestanding cylinder
Freestanding DHW cylinder 600 to 1000 litres

SHO AC

SHO AC 600, 1000

APPLICATION: SHO AC floorstanding cylinders are suitable for DHW provision in domestic, commercial and industrial settings with a very high hot water demand and maximum draw-off rate. Simultaneous supply of multiple draw-off points (group supply). Sealed unvented, pressure-tested appliance for use with all commercially available pressure taps. Flanged immersion heater, suitable for single circuit or dual circuit/single circuit operation, depending on type.
EQUIPMENT AND CONVENIENCE: Variable temperature selection from 35 - 82 °C. Water temperature is maintained at the selected temperature by the controller. Adjustable temperature limit can be set to 60 °C.
EFFICIENCY: Controller-limiter combination with contactors. Designed with recycling in mind, for separating the various components and resources.
INSTALLATION AND SERVICE: The connected load is 6-18 kW, depending on appliance type. The water connection is suitable for pipework made from copper, plastic, stainless steel or zinc-plated steel. A DHW circulation connection increases DHW convenience in longer pipe networks. Individually replaceable heating elements, protection rating IP 24.
SAFETY AND QUALITY: High grade magnesium anode with anode consumption indicator (signal anode). Internal steel cylinder with special „anticor“ enamel coating for a long service life. Automatic frost protection monitors the water temperature and prevents the cylinder from freezing.

- Flanged immersion heater suitable for single circuit operation or dual circuit/single circuit operation, depending on type
- Optimum thermal insulation available as accessory reduces standby energy consumption
- Variable temperature selection from 35 - 82 °C for high level of convenience
- Optional temperature limit 60 °C
- Internal steel cylinder with special „anticor“ enamel coating for a long service life.
- Improved comfort/convenience with DHW circulation connection
- Automatic frost protection
- Thermometer to check the water temperature and signal anode with display element
- Installation with all standard pipe system materials such as copper, plastic or stainless steel
- Thermometer and signal anode with display element
- Copper immersion heater elements can be replaced individually

Part No.	Model	Rated capacity	Height	Width	Depth
001414	SHO AC 600 7,5	600 l	1685 mm	750 mm	1000 mm
003352	SHO AC 600 6/12	600 l	1685 mm	750 mm	1000 mm
001415	SHO AC 1000 12	1000 l	2525 mm	750 mm	1000 mm
003353	SHO AC 1000 9/18	1000 l	2525 mm	750 mm	1000 mm

Specification

Model	SHO AC 600 7,5	SHO AC 600 6/12	SHO AC 1000 12	SHO AC 1000 9/18
Immersion heater version	Single circuit	Dual circuit/single circuit	Single circuit	Dual circuit/single circuit
Connected load with ~ 400 V	7,5 kW	6-12 kW	12 kW	9/18 kW
Power supply	3/PE	3/N/PE	3/PE	3/N/PE
Rated voltage	400 V	400 V	400 V	400 V
Frequency	50/60 Hz	50 Hz	50 Hz	50 Hz
Water connection	G 2 A / G 1 ½ A	G 2 A / G 1 ½ A	G 2 A / G 1 ½ A	G 2 A / G 1 ½ A
Weight	160 kg	161 kg	230 kg	232 kg
IP-Rating	IP24	IP24	IP24	IP24
Max. permissible pressure	0.60 MPa	0.60 MPa	0.60 MPa	0.60 MPa
Energy efficiency class	C	C	C	C

Freestanding cylinder
Freestanding combi cylinder 300 to 1000 litres

FREESTANDING COMBI CYLINDER 300 TO 1000 LITRES

Vented for supplying several draw-off points in commercial, industrial and domestic situations. Existing connectors for: Cold water and DHW, and in the upper area (except SB 650/3 AC), for thermometer, DHW circulation and threaded heater (BGC). Internal steel cylinder with special enamel coating and protective anode. The flanged apertures (delivered with fitted protective caps) are equipped on site subject to requirements, i.e. either with immersion heaters (FCR), heat exchangers (WTW, WTFS) or dummy flanges (B).

SB S

SB 302, 402 S

- Number of flanged apertures: Two
- Complete cylinder casing with plastic jacket, lid and fascia
- The cold water inlet pipe is part of the standard delivery; optional orientation all around
- Thermometer and signal anode with display element
- Thermal insulation
- Permissible operating pressure 1.0 MPa (10 bar)

Part No.	Model	Rated capacity	Height	Width	Depth
185354	SB 302 S	300 l	1585 mm	700 mm	700 mm
185355	SB 402 S	400 l	1755 mm	750 mm	750 mm

Specification

Model	SB 302 S	SB 402 S
Flange diameter	210 mm	210 mm
Water connection	G 1 A	G 1 A
Depth of insertion	530 mm	580 mm
Weight	101 kg	119 kg
Colour	pure white / basalt grey	pure white / basalt grey

SB AC

SB 602, 1002 AC

- Number of flanged apertures: Two
- Thermal insulation as accessory
- Thermometer and signal anode with display element
- Permissible operating pressure 1.0 MPa (10 bar)

Part No.	Model	Rated capacity	Height	Width	Depth
071554	SB 602 AC	600 l	1685 mm	750 mm	800 mm
071282	SB 1002 AC	1000 l	2525 mm	750 mm	800 mm

Specification

Model	SB 602 AC	SB 1002 AC
Flange diameter	280 mm	280 mm
Water connection	G 2 A / G 1 ½ A	top/bottom: G 2 / G 1 ½
Depth of insertion	790 mm	790 mm
Weight	154 kg	212 kg

Freestanding cylinder
Flanged immersion heaters

FLANGED IMMERSION HEATERS

FCR 21 (dual circuit)

Flanged immersion heaters FCR 21

Flanged immersion heaters for horizontal installation in sealed DHW cylinders with flange connector to DIN 4805. Observe the details supplied by the cylinder manufacturer and DIN 4753 or 4751.Standard delivery: Temperature controller with frost protection setting (external), optional temperature limit, integral push button for quick heat-up, high limit safety cut-out, flange gasket, protective cover with two cable inlets.

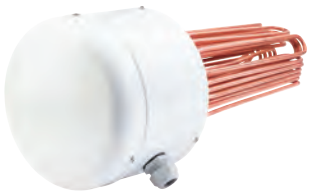
- Infinitely variable temperature selection from approx. 35 °C to approx. 82 °C
- Replaceable copper immersion heaters
- Permissible operating pressure 1.0 MPa (10 bar)

Part No.	Model	Connected load with ~ 230 V	Connected load with ~ 400 V	Version
071330	FCR 21/60	2-4 kW	2-6 kW	Single/two line
071331	FCR 21/120	4 kW	8/12 kW	Single circuit

Specification

Model	FCR 21/60	FCR 21/120
Flange diameter	210 mm	210 mm
Power supply	1/N/PE, 3/N/PE	1/N/PE, 2/N/PE, 3/PE
Rated voltage	230/400 V	230/400 V
Frequency	50/60 Hz	50/60 Hz
Depth of insertion	400 mm	400 mm
May be fitted into type	SB 302-402 / SBB 300/400/600 SOL	SB 302-402 / SBB 300/400/600 SOL
IP-Rating	IP24	IP24
Integral contactor	X	-
Coil voltage	230 V	

FCR 28/360



Flanged immersion heaters FCR 28

Flanged immersion heaters for horizontal installation in sealed DHW cylinders with flange connector to DIN 4805, e.g. mating flange GF 28. Observe the details supplied by the cylinder manufacturer and DIN 4753 or 4751.Standard delivery: Temperature controller with frost protection setting, high limit safety cut-out, flange gasket, protective cover with two cable inlets.

- Infinitely variable temperature selection from approx. 35 °C to approx. 85 °C
- FCR (single circuit) temperature selection from the control room
- FCR (dual circuit/single circuit) external control for temperature selection
- Replaceable copper immersion heaters
- Heating element made from high grade stainless steel for problematic water qualities (FCR 28/120 CrNi)
- Permissible operating pressure 1.0 MPa (10 bar)

Part No.	Model	Connected load with ~ 400 V	Version
000694	FCR 28/120	12 kW	Single circuit
000695	FCR 28/180	18 kW	Single circuit
000696	FCR 28/270	27 kW	Single circuit
001502	FCR 28/360	36 kW	Single circuit
071332	FCR 28/120	6/12 kW	Single/two line
234503	FCR 28/120 CrNi	6/12 kW	Single/two line
071333	FCR 28/180	9/18 kW	Single/two line

Specification

Model	FCR 28/120	FCR 28/180	FCR 28/270	FCR 28/360	FCR 28/120	FCR 28/120 CrNi	FCR 28/180
Flange diameter	280 mm	280 mm	280 mm	280 mm	280 mm	280 mm	280 mm
Power supply	3/PE	3/PE	3/PE	3/PE	3/PE	3/PE	3/PE
Rated voltage	400 V	400 V	400 V	400 V	400 V	400 V	400 V
Frequency	50 Hz	50 Hz	50 Hz	50/60 Hz	50 Hz	50 Hz	50 Hz
Depth of insertion	325 mm	325 mm	325 mm	450 mm	450 mm	450 mm	450 mm
May be fitted into type	SB 602-1002 AC, SBP 1000-1500 E and E SOL, SBB 751-1001 and SOL	SB 602-1002 AC, SBP 1000-1500 E and E SOL, SBB 751-1001 and SOL	SB 602-1002 AC, SBP 1000-1500 E and E SOL, SBB 751-1001 and SOL	SB 602-1002 AC, SBP 1000-1500 E and E SOL, SBB 751-1001 and SOL	SB 602-1002 AC, SBP 1000-1500 E and E SOL, SBB 751-1001 and SOL	SB 602-1002 AC, SBP 1000-1500 E and E SOL, SBB 751-1001 and SOL	SB 602-1002 AC, SBP 1000-1500 E and E SOL, SBB 751-1001 and SOL
IP-Rating	IP24	IP24	IP24	IP24	IP24	IP24	IP24
Integral contactor	X	X	X	-	X	X	X
Coil voltage	400 V	400 V	400 V		230 V	230 V	230 V

Freestanding cylinder
Flanged immersion heaters

Flanged immersion heaters FCR 28 Si

Flanged immersion heaters for horizontal installation in sealed DHW cylinders with flange connector to DIN 4805, e.g. mating flange GF 28. Observe the details supplied by the cylinder manufacturer and DIN 4753 or 4751.Standard delivery: Temperature controller with frost protection setting, high limit safety cut-out, flange gasket, protective cover with two cable inlets.

- Infinitely variable temperature selection from 30 °C to 85 °C
- FCR (single circuit) temperature selection from the control room
- Replaceable copper or stainless steel heating element (FCR 28/360 Si)

Part No.	Model	Connected load with ~ 400 V	Version
075140	FCR 28/120 Si	12 kW	Single circuit
075131	FCR 28/180 Si	18 kW	Single circuit
075141	FCR 28/270 Si	27 kW	Single circuit
075124	FCR 28/360 Si	36 kW	Single circuit

Specification

Model	FCR 28/120 Si	FCR 28/180 Si	FCR 28/270 Si	FCR 28/360 Si
Flange diameter	280 mm	280 mm	280 mm	280 mm
Power supply	3/PE	3/PE	3/PE	3/PE
Rated voltage	400 V	400 V	400 V	400 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Depth of insertion	325 mm	325 mm	325 mm	450 mm
May be fitted into type	SB 602-1002 AC, SBP 1000-1500 E and E SOL, SBB 751-1001 and SOL	SB 602-1002 AC, SBP 1000-1500 E and E SOL, SBB 751-1001 and SOL	SB 602-1002 AC, SBP 1000-1500 E and E SOL, SBB 751-1001 and SOL	SB 602-1002 AC, SBP 1000-1500 E and E SOL, SBB 751-1001 and SOL
IP-Rating	IP24	IP24	IP24	IP24
Integral contactor	-	-	-	-
Coil voltage				

Threaded immersion heater BGC

Threaded immersion heater for sealed heating and DHW heating systems. Infinitely variable temperature selection from approx. 10 °C to 80 °C. Temperature limit can be set to 45/60/80 °C. Integral temperature controller with high limit safety cut-out. Heating element and protective pipe material: Copper; threaded connection: Brass, thread G 1 1/2 with PTFE gasket.

Specification

Model	BGC/45	BGC	BGC 2/60
Connected load with ~ 230 V	2-5,7 kW	2-5,7 kW	2-5,7 kW
Connected load with ~ 400 V	6 kW	6 kW	6 kW
Power supply	1/N/PE, 2/PE, 3/PE	1/N/PE, 2/PE, 3/PE	1/N/PE, 2/PE, 3/PE
Rated voltage	230/400 V	230/400 V	230/400 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
IP-Rating	IP44	IP44	IP44
Max. permissible pressure	1 MPa	1 MPa	1 MPa

BGC/45

BGC/45

- Complete connection nipple G 1 ½ for optional threading through the thermal insulation
- Suitable for use with DHW cylinders SBB (WP) basic and Trend
- Suitable for use with SB, SBB and SBP cylinders up to 500 litres, with directly applied foam insulation

Part No.	Model	Depth of insertion
075115	BGC/45	455 mm

Freestanding cylinder
Flanged immersion heaters

BGC

BGC

› For use in WPRB pipe assembly for electric reheating

Part No.	Model	Depth of insertion
003769	BGC	500 mm

BGC 2/60

BGC 2/60

› Complete with connector 60 mm G 1 1/2 to enable threaded fitting through the thermal insulation
› Suitable for use with SBB, SBS and SBP system cylinders in conjunction with WD and WDH thermal insulation
› Suitable for use with buffer cylinders SBP 700 E/E SOL and solar cylinders SBB 600 plus
› Suitable for use with SB, SBB and SBP cylinders up to 500 litres, with directly applied foam insulation (exception SBB (WP) basic and Trend)

Part No.	Model	Depth of insertion
232030	BGC 2/60	480 mm

Dummy flange for freestanding combi cylinders

Blank flanges for the optional sealing of flange apertures, enamel coated on the inside. The gaskets, screws with insulation sleeves and cap with thermal insulation are part of the standard delivery.

Part No.	Model	May be fitted into type	Flange diameter
076102	B 21	SB 302 - 402 S	210 mm
076103	B 28	SB 602-1002 AC	280 mm

Freestanding cylinder
Safety assemblies for freestanding cylinder

SAFETY ASSEMBLIES FOR FREESTANDING CYLINDER

ZH 1

ZH 1

Safety assembly ZH 1 for sealed freestanding electric cylinders and combi cylinders up to 1000 litres. Pressure reducing valve DMV/ZH1 may be retrofitted. Brass casing, G 1 connections.

- Applicable for SHW 200-400 S, SB 302, 402 S, SHW 300, 400 WS, HSTP 200-400, SHO AC 600, 1000, SB 602, 1002, SB 650/3, SBB..plus, SBK 600/150, WWK 300
- Safety valve 0.6 MPa (6 bar) fitted as standard; replacement cartridge supplied 1.0 MPa (10 bar)
- Test symbol PA-IX 1794/I

Part No.	Model
074370	ZH 1

DMV / ZH 1

DMV / ZH 1

Special pressure reducing valve G 1 as supplement to ZH 1, if the idle pressure at the installation location exceeds 0.48 MPa (4.8 bar).

Part No.	Model
074371	DMV / ZH 1

Safety valves

Diaphragm safety valve with brass casing, response pressure 0.6 MPa or 1.0 MPa (6 or 10 bar) for DHW cylinders.

SV ½-6

SV ½-6

- Safety valve G ½, response pressure 0.6 MPa (6 bar), for DHW cylinders up to 200 litres and 0.6 MPa (6 bar) max. operating pressure

Part No.	Model
074373	SV ½-6

SV ¾-6

SV ¾-6

- Safety valve G ¾, response pressure 0.6 MPa (6 bar), for DHW cylinders up to 1000 litres and 0.6 MPa (6 bar) max. operating pressure

Part No.	Model
074374	SV ¾-6

SV ¾-10

SV ¾-10

- Safety valve G ¾, response pressure 1.0 MPa (10 bar), for DHW cylinders up to 1000 litres and 1.0 MPa (10 bar) max. operating pressure

Part No.	Model
074375	SV ¾-10

Freestanding cylinder
Accessories for floorstanding cylinders

ACCESSORIES FOR FLOORSTANDING CYLINDERS

Thermal insulation for SHO AC 600, SHO AC 1000
High grade thermal insulation with floor disc and insulation cover for floorstanding cylinders SHO AC. The wedge shaped cut-outs in the cylinder insulation allow for optimum matching to the cylinder which results in high insulation properties. Outer jacket in white; cover in black. Zip fasteners to easily secure the thermal insulation.

WDS 600

WDS 600
› Thermal insulation WDS 600 for floorstanding cylinder SHO AC 600

Part No.	Model	Insulation for	Height	Thickness
236077	WDS 600	SHO AC 600	1850 mm	100 mm

WDS 1000

WDS 1000
› Thermal insulation WDS 1000 for floorstanding cylinder SHO AC 1000

Part No.	Model	Insulation for	Height	Thickness
236078	WDS 1000	SHO AC 1000	2690 mm	100 mm

Thermal insulation for SB 602 AC, SB 1002 AC
High grade thermal insulation with floor disc and insulation cover for floorstanding combi cylinders SB...AC. The wedge shaped cut-outs in the cylinder insulation allow for optimum matching to the cylinder which results in high insulation properties. Outer jacket in white; cover in black. Zip fasteners to easily secure the thermal insulation.

WDS 602

WDS 602
› Thermal insulation WDS 602 for floorstanding combi cylinder SB 602 AC

Part No.	Model	Insulation for	Height	Thickness
236079	WDS 602	SB 602 AC	1850 mm	100 mm

WDS 1002

WDS 1002
› Thermal insulation WDS 1002 for floorstanding combi cylinder SB 1002 AC

Part No.	Model	Insulation for	Height	Thickness
236080	WDS 1002	SB 1002 AC	2690 mm	100 mm

Freestanding cylinder
Accessories for floorstanding cylinders

Replacement anode ¾

Replacement anodes

Segmented signal anode for freestanding cylinders, may also be installed in rooms with low ceiling height. For the optional use in conjunction with freestanding cylinders of combi cylinders.

Replacement anode ¾

› For freestanding cylinder SHW 200-400 S, HSTP 200-400 or freestanding combi cylinder SB 302-402 S

Part No.	Model
143498	Replacement anode ¾

Replacement anode 1 ¼

Replacement anode 1 ¼

› For freestanding cylinder SHO AC 600-1000 or freestanding combi cylinder SB 602-1002 AC

Part No.	Model
143499	Replacement anode 1 ¼

Notes

Inverter air source heat pumps and air-water heat pumps

HEAT PUMPS
DEVICE NAMES EASY TO UNDERSTAND*

HP A-O 07.1 CS Premium

Place of installation
Outdoor **O**
Indoor **I**

Device type
Heat pump **HP**

Version counter
.1

Source
Air **A**
Ground **G**
Water **W**

Heat output
at A-7/W35 or B0/W35 integer

Classification
Trend
Plus
Premium

Function
Duo (Integral DHW cylinder) **D**
Cooling **C**
Free field **F**
Corner installation **E**
Single Phase **S**
Sound-optimized **dB**

* The device names apply to all products from market launch in 2020.

HEAT PUMPS
INVERTER AIR SOURCE HEAT PUMPS

HPA-O 7-13 Premium

HPA-O 7-13 Premium

APPLICATION: Inverter air source heat pump with output-dependent control, designed as a compact mono block appliance for outdoor installation. Can be used for heating and DHW operation; the AC version also provides efficient cooling via circuit reversal. Suitable for new build and modernisation projects due to high flow temperatures.

EQUIPMENT/CONVENIENCE: Optimised noise reduction due to encapsulated refrigerant circuit and acoustically isolated compressor. The wide gaps between the evaporator fins create low air resistance and, in combination with the modulating fan, result in a low sound power level. The combined enhanced vapour injection/enhanced saturated vapour injection cools the scroll compressor at low outside temperatures, enabling a higher heating output/flow temperature to be achieved. In combination with the ISG (additional accessory), the heat pump controller (required accessory) can be used to control the system via a home network or mobile device. With integral heat and electricity metering via refrigerant circuit data. An emergency/booster heater enables mono energetic operation. The refrigerant circuit is hermetically sealed, tested for tightness at the factory and filled with safety refrigerant R410A.

EFFICIENCY: The waste heat from the inverter is used to raise the return temperature. This increases the overall efficiency of the system. Demand-dependent and energy efficient defrosting through circuit reversal. The condensate pan is heated by the refrigerant circuit to enable efficient defrosting.

INSTALLATION: Integral anti-vibration mounts for direct connection to the heating system. Pivoting electrical connection panel for better accessibility. Quick access to the condensate pan via cleaning aperture at the rear. The metal casing is corrosion-protected and made from galvanised, powder coated sheet steel, with an alpine white stove enamel finish. The fan grille, recessed grips and cover are made from weatherproof and UV-resistant plastic in aluminium white.

- Air source heat pump installed outdoors for heating and cooling
- Inverter technology: Variable speed compressor for perfectly matched heating output
- Enhanced vapour injection for a high flow temperature at low outside temperatures
- Active cooling by reversing the refrigerant cycle for a comfortable room climate
- High efficiency all year round for low operating costs thanks to optimally matched components and low operating noise
- Suitable for mono mode DHW heating for low running costs
- Can be integrated into a home network and controlled via smartphone

Part No.	Model	Output at A-7/W35 (EN 14511)	Output at A2/W35 (EN 14511)	Coefficient of performance at A-7/W35 (EN 14511)	Coefficient of performance at A2/W35 (EN 14511)
238976	HPA-O 7 S Premium	6.86 kW	4.23 kW	2.83	3.88
238977	HPA-O 7 CS Premium	6.86 kW	4.23 kW	2.83	3.88
238978	HPA-O 10 Premium	9.54 kW	8.33 kW	3.26	4.14
238979	HPA-O 10 C Premium	9.54 kW	8.33 kW	3.26	4.14
238980	HPA-O 13 S Premium	12.86 kW	8.33 kW	2.98	4.14
238981	HPA-O 13 CS Premium	12.86 kW	8.33 kW	2.98	4.14
238982	HPA-O 13 Premium	12.86 kW	8.33 kW	2.93	4.14
238983	HPA-O 13 C Premium	12.86 kW	8.33 kW	2.93	4.14

Specification

Model	HPA-O 7 S Premium	HPA-O 7 CS Premium	HPA-O 10 Premium	HPA-O 10 C Premium	HPA-O 13 S Premium	HPA-O 13 CS Premium	HPA-O 13 Premium	HPA-O 13 C Premium
Energy efficiency class, heat pump W35	A++	A++	A+++	A+++	A++	A+++	A+++	A+++
Energy efficiency class, W55 heat pump	A+	A++	A++	A++	A++	A++	A++	A++
Energy efficiency class, composite system (heat pump + controller) W35	A++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
Energy efficiency class, composite system (heat pump + controller) W55	A++	A++	A++	A++	A++	A++	A++	A++
SCOP (EN 14825)	3.84	4.04	4.70	4.87	4.39	4.53	4.63	4.76
Cooling capacity at A35/W7 max.		7.86 kW		11.49 kW		14.88 kW		14.88 kW
Cooling capacity factor at A35/W7 max.		2.41		2.53		2.38		2.38
Cooling capacity at A35/W7 partial load		2.15 kW		4.80 kW		4.80 kW		4.80 kW
Cooling capacity factor at A35/W7 partial load		2.39		2.84		2.84		2.84
Sound power level (EN 12102)	50 dB(A)	50 dB(A)	54 dB(A)	54 dB(A)	54 dB(A)	54 dB(A)	54 dB(A)	54 dB(A)
Sound pressure level at 5 m distance	28 dB(A)	28 dB(A)	32 dB(A)	32 dB(A)	32 dB(A)	32 dB(A)	32 dB(A)	32 dB(A)
Rated compressor voltage	230 V	230 V	400 V	400 V	230 V	230 V	400 V	400 V
Rated voltage, emergency/booster heater	230 V	230 V	400 V	400 V	230 V	230 V	400 V	400 V
Max. application limit on the heating side	65 °C	65 °C	65 °C	65 °C	65 °C	65 °C	65 °C	65 °C
Height	900 mm	900 mm	1045 mm	1045 mm	1045 mm	1045 mm	1045 mm	1045 mm
Width	1270 mm	1270 mm	1490 mm	1490 mm	1490 mm	1490 mm	1490 mm	1490 mm
Depth	593 mm	593 mm	593 mm	593 mm	593 mm	593 mm	593 mm	593 mm
Weight	160 kg	160 kg	175 kg	175 kg	175 kg	175 kg	175 kg	175 kg

HEAT PUMPS
INVERTER AIR SOURCE HEAT PUMPS

AS-WP 2

AS-WP 1

Connection set

AS-WP 1: The connection set is suitable for connecting 32 x 2.9 supply lines coming from the ground. In addition to the connection pieces, the standard delivery includes a white painted cover hood to protect against the elements.
AS-WP 2: The connection set is suitable for connecting supply lines coming from the ground with the option of G 1 1/4 A connection. In addition to the connection pieces, the standard delivery includes a white painted cover hood to protect against the elements.

Part No.	Model	Length	Connection
233622	AS-WP 1		32 x 2.9 mm
233623	AS-WP 2		G 1 ¼

WK 2

Wall mounting bracket

Corrosion-protected wall mounting bracket made from zinc-plated steel for on-site installation. Height adjustments can be made on the wall rail, while the appliance rail provides the possibility to align the appliance. Standard delivery includes: 2 pce incl. anti-vibration mounts and 2 m self-limiting ribbon heater.

› Including 2 m ribbon heater for keeping the condensate connection free of frost

Part No.	Model
234722	WK 2

SK 1

T-support

Stainless steel, T-shaped support for floorstanding, concrete-embedded installation. Standard delivery includes: 2 pce incl. installation aid for a defined clearance dimension, anti-vibration mounts and 1 m self-limiting ribbon heater.

› Including 1 m ribbon heater for keeping the condensate connection free of frost

Part No.	Model
232964	SK 1

HEAT PUMPS
INVERTER AIR SOURCE HEAT PUMPS

HPA-O 3-8 CS Plus

HPA-O 3-8 CS Plus

SET COMPONENTS: Heat pump and hydraulic module with all relevant heating system components. The highly efficient circulation pump for the heating and DHW sides, electric emergency/booster heater, 24 litre heating expansion vessel, safety valve, quick-action air vent valve and the 3/2-way diverter valve are already integrated. Control takes place via the integral heat pump manager.

APPLICATION: Inverter air source heat pump with output-dependent control, designed as a compact mono block appliance for outdoor installation. Can be used for heating and DHW operation; also provides efficient cooling via circuit reversal. Ideally suited for use in new build or buildings with a low system temperature. Sold in perfectly matched sets with compact indoor units for straightforward, space saving installation.

EQUIPMENT/CONVENIENCE: Optimised noise reduction due to encapsulated refrigerant circuit and acoustically isolated compressor. With integral heat and electricity metering via refrigerant circuit data.

EFFICIENCY: The waste heat from the inverter is used to raise the return temperature. This increases the overall efficiency of the system. Demand-dependent and energy efficient defrosting through circuit reversal.

INSTALLATION: Required accessories for effective condensate drainage are available for both floorstanding or wall mounted installations. Integral anti-vibration mounts for direct connection to the heating system. Easy access to the electrical connection panel without having to open the appliance.

- Air-water heat pump installed outdoors for heating and cooling for new builds
- Inverter technology: Variable speed compressor for perfectly matched heating output
- Compact outdoor unit can be combined with internal modules thus reducing the amount of space required in the installation room
- Low operating noise thanks to infinitely adjustable fan speed and encapsulated refrigerant circuit
- ABC design –"anti-block condensate" prevents the condensate drain from becoming blocked, which could result in the evaporator freezing
- Can be integrated into a home network and controlled via smartphone
- High DHW convenience with large amount of mixed water due to high flow temperature
- Straightforward hydraulic connection due to integral anti-vibration mounts

Specification

Model	HPA-O 3 CS Plus	HPA-O 4 CS Plus	HPA-O 6 CS Plus	HPA-O 8 CS Plus
Energy efficiency class, heat pump W35	A++	A++	A+++	A+++
Energy efficiency class, W55 heat pump	A+	A+	A+	A+
Energy efficiency class, composite system (heat pump + controller) W35	A++	A++	A+++	A+++
Energy efficiency class, composite system (heat pump + controller) W55	A+	A+	A++	A++
SCOP (EN 14825)	4.23	4.15	4.48	4.48
Output at A2/W35 (EN 14511)	2.08 kW	2.58 kW	5.30 kW	5.30 kW
Coefficient of performance at A2/W35 (EN 14511)	3.70	3.64	3.80	3.80
Output at A-7/W35 (EN 14511)	3.20 kW	3.96 kW	6.00 kW	7.80 kW
Coefficient of performance at A-7/W35 (EN 14511)	2.81	2.73	2.98	2.91
Cooling capacity at A35/W7 max.	2.00 kW	3.00 kW	5.00 kW	6.00 kW
Cooling capacity factor at A35/W7 max.	2.15	1.62	1.73	1.73
Cooling capacity at A35/W7 partial load	1.00 kW	1.50 kW	2.50 kW	3.00 kW
Cooling capacity factor at A35/W7 partial load	2.38	2.38	2.40	2.40
Sound power level (EN 12102)	52 dB(A)	52 dB(A)	57 dB(A)	57 dB(A)
Sound pressure level at 5 m distance in a free field	30 dB(A)	30 dB(A)	35 dB(A)	35 dB(A)
Rated compressor voltage	230 V	230 V	230 V	230 V
Max. application limit on the heating side	60 °C	60 °C	60 °C	60 °C
Height	740 mm	740 mm	812 mm	812 mm
Width	1022 mm	1022 mm	1152 mm	1152 mm
Depth	524 mm	524 mm	524 mm	524 mm
Weight	62 kg	62 kg	91 kg	91 kg

Only available in the set

HEAT PUMPS
INVERTER AIR SOURCE HEAT PUMPS

HPA-O 3-8 CS Plus flex set

HPA-O 3-8 CS Plus flex set

- Heat pump from the classic range
- HM Trend hydraulic module incl. AS-HM Trend connection set

Part No.	Model
238988	HPA-O 3 CS Plus flex Set S
238989	HPA-O 4 CS Plus flex Set S
238990	HPA-O 6 CS Plus flex Set S
238991	HPA-O 8 CS Plus flex Set S
239051	HPA-O 3 CS Plus flex Set
239052	HPA-O 4 CS Plus flex Set
239053	HPA-O 6 CS Plus flex Set
239054	HPA-O 8 CS Plus flex Set

More details regarding set contents can be found under the relevant product
The necessary plinth or wall mounting bracket is available as an accessory

HPA-O 3-8 CS Plus compact set

HPA-O 3-8 CS Plus compact set

- Heat pump from the classic range
- Cylinder and hydraulic module HSBB 200

Part No.	Model
238992	HPA-O 3 CS Plus compact Set S
238993	HPA-O 4 CS Plus compact Set S
238994	HPA-O 6 CS Plus compact Set S
238995	HPA-O 8 CS Plus compact Set S
239055	HPA-O 3 CS Plus compact Set
239056	HPA-O 4 CS Plus compact Set
239057	HPA-O 6 CS Plus compact Set
239058	HPA-O 8 CS Plus compact Set

More details regarding set contents can be found under the relevant product
The necessary plinth or wall mounting bracket is available as an accessory

HPA-O 3-8 CS Plus compact D set

HPA-O 3-8 CS Plus compact D set

- Heat pump from the classic range
- Integral cylinder HSBC 200

Part No.	Model
238996	HPA-O 3 CS Plus compact D Set S
238997	HPA-O 4 CS Plus compact D Set S
238998	HPA-O 6 CS Plus compact D Set S
238999	HPA-O 8 CS Plus compact D Set S
239059	HPA-O 3 CS Plus compact D Set
239060	HPA-O 4 CS Plus compact D Set
239061	HPA-O 6 CS Plus compact D Set
239062	HPA-O 8 CS Plus compact D Set

More details regarding set contents can be found under the relevant product
The necessary plinth or wall mounting bracket is available as an accessory

HEAT PUMPS
INVERTER AIR SOURCE HEAT PUMPS

WK 1

Wall mounting bracket

Corrosion-protected wall mounting bracket made from zinc-plated steel for on-site installation. Height adjustments can be made on the wall rail, while the appliance rail provides the possibility to align the appliance. Standard delivery includes: 2 pce, incl. anti-vibration mounts.

Part No.	Model
238686	WK 1.1

SK 2

T-support

White powder coated bracket for installation on a strip foundation. Standard delivery includes: 2 pce incl. screws for securing the heat pump to the bracket.

Part No.	Model
236693	SK 2

HEAT PUMPS
INVERTER AIR SOURCE HEAT PUMPS

WPL 09/17 ICS classic

WPL 09/17 IKCS classic

WPL 09/17 ICS/IKCS classic

APPLICATION: Inverter air source heat pump with output-dependent control for indoor installation. Can be used for heating and DHW operation; also provides efficient cooling via circuit reversal. Ideally suited for use in new build or buildings with a low system temperature. To allow maximum flexibility in terms of siting, the connection for outdoor and exhaust air can be made at the side or back with the „IK" version. In addition, this type of air routing ensures lower sound emissions in the outdoor area. In the „I" version, the air hoses are connected at the top, which allows for varying wall outlet heights.

EQUIPMENT/CONVENIENCE: Optimised noise reduction due to encapsulated refrigerant circuit and acoustically isolated compressor. The integral heat pump controller enables fully automatic, weather-compensated control of the heating system and, when combined with the optional ISG, the ability to control the system via a home network or mobile device. With integral heat and electricity metering via refrigerant circuit data. The integral heating circuit pump is controlled automatically subject to the flow and return temperatures. An electric emergency/booster heater for mono energetic operation and pasteurisation, a diverter valve for DHW heating and a safety valve with discharge hose are integrated as standard. The refrigerant circuit is hermetically sealed, tested for tightness at the factory and filled with safety refrigerant R410A.

EFFICIENCY: The waste heat from the inverter is used to raise the return temperature. This increases the overall efficiency of the system. Demand-dependent and energy efficient defrosting through circuit reversal.

INSTALLATION: Integral anti-vibration mounts for direct connection to the heating system. Preassembled flexible air hoses with quick-fit adaptor reduce installation effort, as no manual trimming or sealing is necessary.

- Air-water heat pump installed indoors for heating and cooling in new builds
- Inverter technology: Variable speed compressor for perfectly matched heating output
- Indoor installation means low exterior sound levels
- Straightforward connection: air hoses with quick-fitting adaptors reduce installation effort
- Active cooling by reversing the refrigerant cycle for a comfortable room climate
- Easy and time-saving installation with high level of integration
- Can be integrated into a home network and controlled via smartphone
- „IK" version has high level of integration for easy installation in corners

Part No.	Model	Output at A-7/W35 (EN 14511)	Output at A2/W35 (EN 14511)	Coefficient of performance at A-7/W35 (EN 14511)	Coefficient of performance at A2/W35 (EN 14511)
236375	WPL 09 ICS classic	4.23 kW	2.64 kW	3.16	3.83
236376	WPL 17 ICS classic	8.02 kW	5.02 kW	2.63	3.83
236377	WPL 09 IKCS classic	4.18 kW	2.62 kW	3.07	3.76
236378	WPL 17 IKCS classic	7.8 kW	4.95 kW	2.58	3.7

The necessary connection accessories for linking the air hoses to the heat pump are available under accessories.

Specification

Model	WPL 09 ICS classic	WPL 17 ICS classic	WPL 09 IKCS classic	WPL 17 IKCS classic
Energy efficiency class, heat pump W35	A+++	A++	A+++	A++
Energy efficiency class, W55 heat pump	A++	A++	A++	A++
Energy efficiency class, composite system (heat pump + controller) W35	A+++	A++	A+++	A++
Energy efficiency class, composite system (heat pump + controller) W55	A++	A++	A++	A++
SCOP (EN 14825)	4.525	4.25	4.45	4.125
Sound power level indoor installation (EN 12102)	45 dB(A)	51 dB(A)	45 dB(A)	50 dB(A)
Sound power level indoor installation, air intake/discharge (EN 12102)	30/32 dB(A)	43/48 dB(A)	29/32 dB(A)	40/44 dB(A)
Rated compressor voltage	230 V	230 V	230 V	230 V
Rated voltage, emergency/booster heater	230 V	230 V	230 V	230 V
Rated control voltage	230 V	230 V	230 V	230 V
Max. application limit on the heating side	60 °C	60 °C	60 °C	60 °C
Height	1381 mm	1381 mm	1892 mm	1892 mm
Width	874 mm	874 mm	893 mm	893 mm
Depth	874 mm	874 mm	833 mm	833 mm
Weight	173 kg	175 kg	219 kg	221 kg

HEAT PUMPS
INVERTER AIR SOURCE HEAT PUMPS

WPL 09/17 ICS classic comfort Set

WPL 09/17 IKCS classic comfort Set

WPL 09/17 ICS/IKCS classic comfort Set

- Heat pump from the classic range installed indoors
- SBB 301 WP DHW cylinder

Part No.	Model
236730	WPL 09 ICS classic comfort set
236731	WPL 17 ICS classic comfort set
236734	WPL 09 IKCS classic comfort set
236735	WPL 17 IKCS classic comfort set

More details regarding set contents can be found under the relevant product

WPL 09/17 ICS classic compact plus set

WPL 09/17 IKCS classic compact plus set

WPL 09/17 ICS/IKCS classic compact plus Set

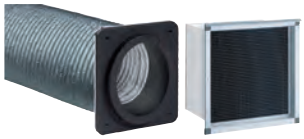
- Heat pump from the classic range installed indoors
- HSBC 200 L integral cylinder

Part No.	Model
236728	WPL 09 ICS classic compact plus set
236729	WPL 17 ICS classic compact plus set
236732	WPL 09 IKCS classic compact plus set
236733	WPL 17 IKCS classic compact plus set

More details regarding set contents can be found under the relevant product

HEAT PUMPS
INVERTER AIR SOURCE HEAT PUMPS

LSWP 315-0,7,2,3,4 S AWG L set



LSWP 315-0.7/2/3/4 S AWG SR set

LSWP 315-0,7,2,3,4 S AWG GL set

ZSA 315

Air routing accessories, air intake/air discharge for WPL 09/17 ICS/IKCS classic

Accessories for straightforward installation of the air routing system to heat pumps installed indoors with quick-fit adaptor. Various lengths are available for flexible connection of the heat pump. The 0.7 m length is suitable for connecting the „IK“ version directly to the wall.

Set comprising a sound-optimised air hose with quick-fit adaptors prefitted on both sides and thermally insulated wall outlet. Depending on design, with weather grille in silver metallic, grey (RAL 9006) or as a version with light shaft.

ZSA 315: Quick-fit adaptor for connection to existing air hoses. Standard delivery includes: Quick-fit adaptor, 4 fixing screws, hose clips for inner and outer hoses.

- LSWP 315-0.7/2/3/4 S AWG SR set with weather grille finished in metallic silver
- LSWP 315-0.7/2/3/4 S AWG GL set with weather grille finished in grey
- LSWP 315-0.7/2/3/4 S AWG L set for the version with light shaft
- ZSA 315: Quick-fit adaptor required for connection to existing air hoses

Part No.	Model	Colour	Internal diameter	Length
236930	LSWP 315-0.7 S AWG SR set	silver metallic	315 mm	0,7 m
236931	LSWP 315-2 S AWG SR set	silver metallic	315 mm	2 m
236932	LSWP 315-3 S AWG SR set	silver metallic	315 mm	3 m
236933	LSWP 315-4 S AWG SR set	silver metallic	315 mm	4 m
237762	LSWP 315-0.7 S AWG GL set	RAL 9006	315 mm	0,7 m
237763	LSWP 315-2 S AWG GL set	RAL 9006	315 mm	2 m
237764	LSWP 315-3 S AWG GL set	RAL 9006	315 mm	3 m
237766	LSWP 315-4 S AWG GL set	RAL 9006	315 mm	4 m
237758	LSWP 315-0.7 S AWG L set	Aluminium, anodised	315 mm	0,7 m
237759	LSWP 315-2 S AWG L set	Aluminium, anodised	315 mm	2 m
237760	LSWP 315-3 S AWG L set	Aluminium, anodised	315 mm	3 m
237761	LSWP 315-4 S AWG L set	Aluminium, anodised	315 mm	4 m
236934	ZSA 315			

HEAT PUMPS
INVERTER AIR SOURCE HEAT PUMPS

WPL external installation

WPL for outdoor installation, silver

Duct silencer KSD 13/18/23/19/24

WPL 19/24 A

APPLICATION: Inverter air source heat pump with output-dependent control, designed as a mono block appliance for outdoor installation. Can be used for heating and DHW operation; optimised for modernisation projects due to constantly high flow temperatures. The design enables the previous model to be directly replaced and allows installation in an open space. In the „dB“ version, the duct silencers for sound reduction at the intake and discharge apertures are included in the standard delivery. Depending on the version, a noise reduction of up to 3 dB can be achieved.

EQUIPMENT/CONVENIENCE: Optimised noise reduction due to encapsulated refrigerant circuit and acoustically isolated compressor. The wide gaps between the evaporator fins create low air resistance and, in combination with the modulating fan, result in a low sound power level. The combined enhanced vapour injection/enhanced saturated vapour injection cools the scroll compressor at low outside temperatures, enabling the maximum flow temperature to be achieved all year round. In combination with the ISG (optional accessory), the heat pump controller (accessory) can be used to control the system via a home network or mobile device. With integral heat and electricity metering via refrigerant circuit data. An emergency/booster heater enables mono energetic operation. The refrigerant circuit is hermetically sealed, tested for tightness at the factory and filled with safety refrigerant R410A.

EFFICIENCY: The waste heat from the inverter is used to raise the return temperature. This increases the overall efficiency of the system. Demand-dependent and energy efficient defrosting through circuit reversal. The condensate pan is heated by the refrigerant circuit to enable efficient defrosting.

INSTALLATION: Integral anti-vibration mounts for direct connection to the heating system. The metal casing is corrosion-protected and made from galvanised, powder coated sheet steel, with an alpine white stove enamel finish.

- Air-water heat pump installed outdoors for heating in older buildings
- Inverter technology: Variable speed compressor for perfectly matched heating output
- Enhanced vapour injection/enhanced saturated vapour injection for high flow temperature even at low outside temperatures
- Optimised for the replacement of existing 13/18/23 E air | water heat pumps installed outdoors
- Extended application range in modernisation projects and for DHW heating thanks to high flow temperatures all year round
- Low operating noise thanks to infinitely adjustable fan speed and encapsulated refrigerant circuit
- Can be integrated into a home network and controlled via smartphone
- Suitable for mono mode DHW heating for low running costs

Part No.	Model	Output at A-7/W35 (EN 14511)	Output at A2/W35 (EN 14511)	Coefficient of performance at A-7/W35 (EN 14511)	Coefficient of performance at A2/W35 (EN 14511)
236412	WPL 19 A	9.91 kW	7.41 kW	3.32	4.12
236413	WPL 24 A	13.45 kW	9.04 kW	3.00	4.00

Specification

Model	WPL 19 A	WPL 24 A
Energy efficiency class, heat pump W35	A+++	A+++
Energy efficiency class, W55 heat pump	A++	A++
Energy efficiency class, composite system (heat pump + controller) W35	A+++	A+++
Energy efficiency class, composite system (heat pump + controller) W55	A++	A++
SCOP (EN 14825)	4.60	4.58
Sound power level (EN 12102)	59 dB(A)	59 dB(A)
Sound pressure level at 5 m distance in a free field	37 dB(A)	37 dB(A)
Rated compressor voltage	400 V	400 V
Rated voltage, emergency/booster heater	400 V	400 V
Max. application limit on the heating side	65 °C	65 °C
Colour	white	white
Height	1434 mm	1434 mm
Width	1240 mm	1240 mm
Depth	1280 mm	1280 mm
Weight (standard appliance)	201 kg	201 kg
Total weight - external installation	279 kg	279 kg

HEAT PUMPS
INVERTER AIR SOURCE HEAT PUMPS

WPL 19/24 I/IK

indoor installation

WPL 19/24 I/IK

APPLICATION: Inverter air source heat pump with output-dependent control for indoor installation. Low sound emissions in the outdoor area make it ideal for densely built-up areas. Can be put to optimum use for heating and DHW operation in modernisation projects due to constantly high flow temperatures. The „IK“ version includes the compact air routing module with pre-installed air hoses on the air intake and discharge, a controller and hydraulic components. As a result, it can be quickly and neatly installed in corners.

EQUIPMENT/CONVENIENCE: Optimised noise reduction due to encapsulated refrigerant circuit and acoustically isolated compressor. The wide gaps between the evaporator fins create low air resistance and, in combination with the modulating fan, result in a low sound power level. The combined enhanced vapour injection/enhanced saturated vapour injection cools the scroll compressor at low outside temperatures, enabling the maximum flow temperature to be achieved all year round. In combination with the ISG (optional accessory), the heat pump controller (accessory) can be used to control the system via a home network or mobile device. With integral heat and electricity metering via refrigerant circuit data. An emergency/booster heater enables mono energetic operation. The refrigerant circuit is hermetically sealed, tested for tightness at the factory and filled with safety refrigerant R410A.

EFFICIENCY: The waste heat from the inverter is used to raise the return temperature. This increases the overall efficiency of the system. Demand-dependent and energy efficient defrosting through circuit reversal. The condensate pan is heated by the refrigerant circuit to enable efficient defrosting.

INSTALLATION: Integral anti-vibration mounts for direct connection to the heating system. The metal casing is corrosion-protected and made from galvanised, powder coated sheet steel, with an alpine white stove enamel finish.

- Air-water heat pump installed indoors for heating in older buildings
- Inverter technology: Variable speed compressor for perfectly matched heating output
- Enhanced vapour injection/enhanced saturated vapour injection for high flow temperature even at low outside temperatures
- Optimised for the replacement of existing 13/18/23 E air | water heat pumps installed indoors
- Extended application range in modernisation projects and for DHW heating thanks to high flow temperatures all year round
- Low operating noise thanks to infinitely adjustable fan speed and encapsulated refrigerant circuit
- Can be integrated into a home network and controlled via smartphone
- High efficiency all year round for low operating costs thanks to optimally matched components
- Suitable for mono mode DHW heating for low running costs
- „IK“ version has high level of integration for easy installation in corners
- Indoor installation means low exterior sound levels

Part No.	Model	Output at A-7/W35 (EN 14511)	Output at A2/W35 (EN 14511)	Coefficient of performance at A-7/W35 (EN 14511)	Coefficient of performance at A2/W35 (EN 14511)
235193	WPL 19 I	9.91 kW	7.41 kW	3.32	4.12
235194	WPL 24 I	13.45 kW	9.04 kW	3	4
235878	WPL 19 IK	9.91 kW	7.41 kW	3.32	4.12
235879	WPL 24 IK	13.45 kW	9.04 kW	3	4

Wall outlets must be ordered separately and are available as accessories in various versions.
The air hoses required for the „I“ versions are available as accessories.

Specification

Model	WPL 19 I	WPL 24 I	WPL 19 IK	WPL 24 IK
Energy efficiency class, heat pump W35	A+++	A+++	A+++	A+++
Energy efficiency class, W55 heat pump	A++	A++	A++	A++
Energy efficiency class, composite system (heat pump + controller) W35	A+++	A+++	A+++	A+++
Energy efficiency class, composite system (heat pump + controller) W55	A++	A++	A++	A++
SCOP (EN 14825)	4.6	4.575	4.6	4.575
Sound power level (EN 12102)	54 dB(A)	54 dB(A)	52 dB(A)	54 dB(A)
Sound power level indoor installation, air intake/discharge (EN 12102)	46/48 dB(A)	47/49 dB(A)	50/52 dB(A)	49/51 dB(A)
Rated compressor voltage	400 V	400 V	400 V	400 V
Rated voltage, emergency/booster heater	400 V	400 V	400 V	400 V
Rated control voltage	230 V	230 V	230 V	230 V
Max. application limit on the heating side	65 °C	65 °C	65 °C	65 °C
Height (internal installation)	1182 mm	1182 mm	1820 mm	1820 mm
Width (internal installation)	800 mm	800 mm	800 mm	800 mm
Depth (internal installation)	1240 mm	1240 mm	1240 mm	1240 mm
Weight (standard appliance)	201 kg	201 kg	201 kg	201 kg
Weight (compact air routing module)			80 kg	80 kg
Casing panels in standard delivery	x	x	x	x
Compact air routing module in standard delivery	-	-	x	x

HEAT PUMPS
AIR-WATER HEAT PUMPS

WPL external installation

WPL 33 HT

Air-water heat pump inverter with enhanced vapour injection. Available as an outdoor or indoor installation version with corresponding accessories. Regulating the fan and the two inverter compressors allows the sound power level to be kept low. The robust metal casing is made from galvanised, powder-coated and stove-enamelled sheet steel. The refrigerant circuit is hermetically sealed, tested for leaks at the factory and filled with safety refrigerant R407C. A refrigerant circuit with two inverter compressors with demand-dependent and COP-optimised control ensures high efficiency. Enhanced vapour injection cools the scroll compressors at low outside temperatures, thereby achieving a higher heating output. The wide fin spacing of the evaporator provides low air resistance, resulting in reduced noise and improved defrosting. The 4/2-way valve enables defrosting by reversing the circuit. Equipped with electronic biflow expansion valve with separate control unit and switching via the internal heat pump control unit (IWS), for optimised overheating protection resulting in an improved COP. Time-optimised and energy efficient defrosting by circuit reversal. Heating of condensate pan via refrigerant circuit ensures efficient defrosting. With integral heat and electricity metering via refrigerant circuit data. All safety equipment is included. Heat pump manager (accessories) required for providing control.

- Air-water heat pump for heating in older buildings
- Heating flow temperature up to 75 °C
- One refrigerant circuit with two inverter compressors
- High DHW convenience
- Patented refrigerant circuit
- Enhanced vapour injection for a high flow temperature at low outside temperatures
- Electronic expansion valve
- Mono mode heating operation possible
- DHW temperature with SBB > 60 °C possible
- Operation from +30 °C to -20 °C outside temperature

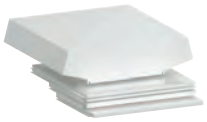
Part No.	Model	Output at A-7/W35 (EN 14511)	Heating output at A2/W35 partial load (EN 14511)	Coefficient of performance at A-7/W35 (EN 14511)	COP at A2/W35 partial load (EN 14511)
229938	WPL 33 HT	12.38 kW	7.45 kW	2.47	3.47

Specification

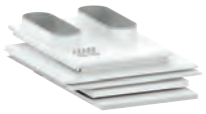
Model	WPL 33 HT
Energy efficiency class, heat pump W35	A+
Energy efficiency class, W55 heat pump	A+
Energy efficiency class, composite system (heat pump + controller) W35	A++
Energy efficiency class, composite system (heat pump + controller) W55	A++
Output at A-7/W55 (EN 14511)	12.9 kW
Coefficient of performance at A-7/W55 (EN 14511)	2.03
Output at A2/W55 (EN 14511)	7.38 kW
Coefficient of performance at A2/W55 (EN 14511)	2.3
Sound power level (EN 12102)	58 dB(A)
Rated compressor voltage	400 V
Rated voltage, emergency/booster heater	400 V
Height	1116 mm
Width	784 mm
Depth	1332 mm
Weight	240 kg

HEAT PUMPS
AIR-WATER HEAT PUMPS

ZVK-WPL outdoor installation



ZVK-WPL indoor installation



Casing for WPL 33 HT
Corrosion-protected sheet metal casing, made from galvanised and powder coated sheet steel.

Part No.	Model	Colour
230206	ZVK-WPL 33 HT I	white
230207	ZVK-WPL 33 HT A	white
232021	ZVK-WPL 33 HT A SR	silver

HEAT PUMPS
AIR-WATER HEAT PUMPS

WPL external installation

WPL/WPL..E with WPIC

AIR-WATER HEAT PUMPS

WPL 13/18/23 E

Air-water heat pump with enhanced vapour injection. Available as an outdoor or indoor installation version with corresponding accessories. The robust metal casing is made from galvanised, powder-coated and stove-enamelled sheet steel. The refrigerant circuit is hermetically sealed, tested for leaks at the factory and filled with safety refrigerant R407C. Equipped with twin anti-vibration compressor mounts for reduced sound power level. Enhanced vapour injection cools the scroll compressor at low outside temperatures, thereby achieving a higher heating output. The wide fin spacing of the evaporator provides low air resistance, resulting in reduced noise and improved defrosting. The 4/2-way valve enables defrosting by reversing the circuit. Equipped with electronic biflow expansion valve with separate control unit and switching via the internal heat pump control unit (IWS), for optimised overheating protection resulting in an improved COP. Time-optimised and energy efficient defrosting by circuit reversal. Heating of condensate pan via refrigerant circuit ensures efficient defrosting. With integral heat and electricity metering via refrigerant circuit data. All safety equipment is included. WPM 3 heat pump manager (accessories) required for control.

- Air-water heat pump for heating
- Enhanced vapour injection for a high flow temperature at low outside temperatures
- Electronic expansion valve
- Refrigerant circuit heating of the defrost pan
- Optional cascade
- Can be used at outside temperatures from +40 °C to -20 °C
- Time and energy-efficient circulation reversal for defrosting
- Heating flow temperature up to 60 °C
- With integrated heat and electricity meters

Part No.	Model	Output at A-7/W35 (EN 14511)	Output at A2/W35 (EN 14511)	Coefficient of performance at A-7/W35 (EN 14511)	Coefficient of performance at A2/W35 (EN 14511)
227756	WPL 13 E	6.77 kW	8.09 kW	3.2	3.76
227757	WPL 18 E	9.72 kW	11.3 kW	3.27	3.73
227758	WPL 23 E	13.21 kW	15.73 kW	3.14	3.62

Specification

Model	WPL 13 E	WPL 18 E	WPL 23 E
Energy efficiency class, heat pump W35	A++	A++	A+
Energy efficiency class, W55 heat pump	A+	A+	A+
Energy efficiency class, composite system (heat pump + controller) W35	A++	A++	A++
Energy efficiency class, composite system (heat pump + controller) W55	A+	A+	A+
SCOP (EN 14825)	3.85	4	3.775
Sound power level outdoor installation (EN 12102)	62 dB(A)	65 dB(A)	65 dB(A)
Sound pressure level at 5 m distance in a free field	39 dB(A)	39 dB(A)	39 dB(A)
Sound power level indoor installation (EN 12102)	56 dB(A)	57 dB(A)	58 dB(A)
Rated compressor voltage	400 V	400 V	400 V
Rated voltage, emergency/booster heater	400 V	400 V	400 V
Rated control voltage	230 V	230 V	230 V
Height	1116 mm	1116 mm	1116 mm
Width	784 mm	784 mm	784 mm
Depth	1182 mm	1182 mm	1182 mm
Weight	205 kg	212 kg	211 kg

HEAT PUMPS
AIR-WATER HEAT PUMPS

WPL external installation

WPL/WPL..E with WPIC

WPL 13/18/23 cool

Air-water heat pump with enhanced vapour injection for heating and cooling. Available as an outdoor or indoor installation version with corresponding accessories. The robust metal casing is made from galvanised, powder-coated and stove-enamelled sheet steel. The refrigerant circuit is hermetically sealed, tested for leaks at the factory and filled with safety refrigerant R407C. Equipped with twin anti-vibration compressor mounts for reduced sound power level. Enhanced vapour injection cools the scroll compressor at low outside temperatures, thereby achieving a higher heating output. The wide fin spacing of the evaporator provides low air resistance, resulting in reduced noise and improved defrosting. The 4/2-way valve enables defrosting by circuit reversal, as well as switching the refrigerant circuit from heating to cooling mode. Equipped with electronic biflow expansion valve with separate control unit and switching via the internal heat pump control unit (IWS), for optimised overheating protection resulting in an improved COP. Time-optimised and energy efficient defrosting by circuit reversal. Heating of condensate pan via refrigerant circuit ensures efficient defrosting. With integral heat and electricity metering via refrigerant circuit data. All safety equipment is included. WPM 3 heat pump manager (accessories) required for control.

- Air-water heat pump for heating and cooling
- Active cooling through circuit reversal
- Enhanced vapour injection for a high flow temperature at low outside temperatures
- Electronic expansion valve
- Refrigerant circuit heating of the defrost pan
- High coefficient of performance
- Can be used at outside temperatures from +40 °C to -20 °C
- Time and energy-efficient circulation reversal for defrosting
- Heating flow temperature up to 60 °C
- Optional cascade
- With integrated heat and electricity meters

Part No.	Model	Output at A-7/W35 (EN 14511)	Output at A2/W35 (EN 14511)	Coefficient of performance at A-7/W35 (EN 14511)	Coefficient of performance at A2/W35 (EN 14511)
223400	WPL 13 cool	6.6 kW	8.1 kW	3	3.4
223401	WPL 18 cool	9.72 kW	11.3 kW	3.2	3.7
223402	WPL 23 cool	12.27 kW	14.14 kW	2.91	3.23

Specification

Model	WPL 13 cool	WPL 18 cool	WPL 23 cool
Energy efficiency class, heat pump W35	A+	A++	A+
Energy efficiency class, W55 heat pump	A+	A+	A+
Energy efficiency class, composite system (heat pump + controller) W35	A++	A++	A+
Energy efficiency class, composite system (heat pump + controller) W55	A+	A++	A+
SCOP (EN 14825)	3.75	4.075	3.475
Refrigerating capacity at A35/W7	6.7 kW	9.2 kW	12.5 kW
Cooling factor at A35/W7	2.4	2.4	2.1
Refrigerating capacity at A35/W20	9.7 kW	13.5 kW	15.8 kW
Cooling factor at A35/W20	2.9	3	2.5
Sound power level outdoor installation (EN 12102)	62 dB(A)	65 dB(A)	65 dB(A)
Sound pressure level at 5 m distance in a free field	39 dB(A)	39 dB(A)	39 dB(A)
Sound power level indoor installation (EN 12102)	56 dB(A)	57 dB(A)	58 dB(A)
Rated compressor voltage	400 V	400 V	400 V
Rated voltage, emergency/booster heater	400 V	400 V	400 V
Height	1116 mm	1116 mm	1116 mm
Width	784 mm	784 mm	784 mm
Depth	1182 mm	1182 mm	1182 mm
Weight	210 kg	214 kg	220 kg

HEAT PUMPS
AIR-WATER HEAT PUMPS

WPL 47/57

WPL 47/57

APPLICATION: Air-water heat pump for outdoor installation. Suitable for apartment buildings and commercial applications due to an output of up to 24 kW as a single appliance or up to 144 kW in a cascade. The casing design allows for flexible installation, even in open spaces.

EQUIPMENT/CONVENIENCE: Optimum noise reduction due to encapsulated refrigerant circuit and acoustically isolated compressor. The wide gaps between the evaporator fins create low air resistance and, in combination with the modulating fan, result in a low sound power level. In combination with the ISG (optional accessory), the heat pump controller (accessory) can be used to control the system via a home network or a mobile terminal device. With integral heat and electricity metering via refrigerant circuit data. Fault messages can be processed externally via a 230 V signal. Can be integrated into a building automation system if required using a software extension. The refrigerant circuit is hermetically sealed, tested for tightness at the factory and filled with safety refrigerant R407C.

EFFICIENCY: Demand-dependent and energy efficient defrosting by reversing the circuit. The condensate pan is heated by the refrigerant circuit to enable efficient defrosting.

INSTALLATION: The metal casing is corrosion-protected and made from galvanised and powder-coated sheet steel, with an alpine white stove enamel finish.

- Air-water heat pump installed outdoors for heating
- High output levels make it suitable for use in residential and commercial buildings
- Extremely versatile due to cascade control and dual mode integration
- High reliability through robust single compressor design

Part No.	Model	Output at A-7/W35 (EN 14511)	Output at A2/W35 (EN 14511)	Coefficient of performance at A-7/W35 (EN 14511)	Coefficient of performance at A2/W35 (EN 14511)
228836	WPL 47	21.68 kW	24.82 kW	3.05	3.43
228837	WPL 57	24.02 kW	29.81 kW	2.84	3.3

Specification

Model	WPL 47	WPL 57
Energy efficiency class, heat pump W35	A++	A+
Energy efficiency class, W55 heat pump	A+	A+
Energy efficiency class, composite system (heat pump + controller) W35	A++	A+
Energy efficiency class, composite system (heat pump + controller) W55	A+	A+
Sound power level (EN 12102)	67 dB(A)	69 dB(A)
Sound pressure level at 5 m distance in a free field	45 dB(A)	47 dB(A)
Rated compressor voltage	400 V	400 V
Colour	white	white
Height	1485 mm	1485 mm
Width	1860 mm	1860 mm
Depth	2040 mm	2040 mm
Weight	540 kg	600 kg

ACCESSORIES AIR-WATER HEAT PUMPS

HM / HM-Trend hydraulic module for Air-water heat pumps
Hydraulic module for indoor installation; quick and straightforward to install due to high level of integration. Hydraulic connection between the heat pump and the hydraulic module of the HM or HM Trend series. The HM is equipped with a robust metal casing made from galvanised, powder coated and stove enamelled sheet steel. The casing of the HM Trend series consists of an insulated EPP appliance cover. All relevant heating components, such as the highly efficient circulation pump for the heating and DHW side, a multi stage electric emergency/booster heater for mono energetic operation and pasteurisation, 24 litre heating expansion vessel, safety valve, quick-action air vent valve and the 3/2-way diverter valve for DHW heating are already integrated. The system is controlled via the integral WPM heat pump manager with illuminated symbol and plain text display, which enables fully automated, weather-compensated control of the heating system. An optional ASL-HM insulated connector block can be used, which simplifies hydraulic connection.

Specification

Model	HM	HM Trend	HMS	HMS Trend
Height	896 mm	896 mm	896 mm	896 mm
Height incl. connector block	1131 mm	1131 mm	1131 mm	1131 mm
Width	590 mm	590 mm	590 mm	590 mm
Depth	405 mm	405 mm	405 mm	405 mm
Weight	45 kg	27 kg	45 kg	27 kg
External available pressure differential at 1.0 m³/h	715 hPa	715 hPa	715 hPa	715 hPa
External available pressure differential at 1.5 m³/h	661 hPa	661 hPa	661 hPa	661 hPa
External available pressure differential at 2 m³/h	468 hPa	468 hPa	468 hPa	468 hPa
External available pressure differential at 2.5 m³/h	300 hPa	300 hPa	300 hPa	300 hPa
Rated control voltage	230 V	230 V	230 V	230 V
Rated voltage, emergency/booster heater	400 V	400 V	230 V	230 V
Power consumption, emergency/booster heater	8.8 kW	8.8 kW	5.9 kW	5.9 kW
Connection	G 1	G 1	G 1	G 1
Suitable for	WPL 19/24, WPL 15/20/25 AC(S), WPL classic, WPL 33 HT(S), HPA-O Premium, HPA-O plus	WPL 19/24, WPL 15/20/25 AC(S), WPL classic, WPL 33 HT(S), HPA-O Premium, HPA-O plus	WPL 19/24, WPL 15/20/25 AC(S), WPL classic, WPL 33 HT(S), HPA-O Premium, HPA-O plus	WPL 19/24, WPL 15/20/25 AC(S), WPL classic, WPL 33 HT(S), HPA-O Premium, HPA-O plus
Connector block	Optional	Optional	Optional	Optional

HM

HM
- High grade casing made from sheet steel with EPP insulation core
- High level of integration
- Hydraulic connection between heat pump and heating system
- Integral heat pump manager WPM
- Circulation pump with energy efficiency category A
- Integral central heating/DHW diverter valve
- With 24 l heating expansion vessel
- Integral emergency/booster heater
- For wall mounting
- Can be used in conjunction with heat pumps with cooling ability

Part No.	Model
233010	HM

HEAT PUMPS
ACCESSORIES AIR-WATER HEAT PUMPS

HM Trend

HM Trend

- Hydraulic connection between heat pump and heating system
- Integral heat pump manager WPM
- Integral central heating/DHW diverter valve
- Circulation pump with energy efficiency category A
- Insulated casing made from black EPP
- High level of integration
- With 24 l heating expansion vessel
- Integral emergency/booster heater
- Connector block available as an accessory
- For wall mounting

Part No.	Model
232805	HM Trend

HM

HMS

- High grade casing made from sheet steel with EPP insulation core
- High level of integration
- Hydraulic connection between heat pump and heating system
- Integral heat pump manager WPM
- Circulation pump with energy efficiency category A
- Integral central heating/DHW diverter valve
- With 24 l heating expansion vessel
- Integral emergency/booster heater
- For wall mounting
- Can be used in conjunction with heat pumps with cooling ability

Part No.	Model
233827	HMS

HM Trend

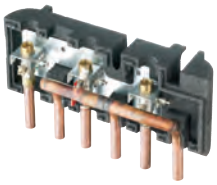
HMS Trend

- Insulated casing made from black EPP
- High level of integration
- Hydraulic connection between heat pump and heating system
- Integral heat pump manager WPM
- Circulation pump with energy efficiency category A
- Integral central heating/DHW diverter valve
- With 24 l heating expansion vessel
- Integral emergency/booster heater
- For wall mounting
- Can be used in conjunction with heat pumps with cooling ability

Part No.	Model
233826	HMS Trend

HEAT PUMPS
ACCESSORIES AIR-WATER HEAT PUMPS

ASL-HM



AS-HM Trend

Accessories for HM and HM-Trend hydraulic modules

The ASL-HM or AS-HM Trend connector block can be used for simplified connection of the hydraulic module.

- ASL-HM insulated connector block
- AS-HM Trend connection set, comprising ball valves with adaptor to CU 28

Part No.	Model	Height	Width	Depth	Weight	Connection
232806	ASL-HM	285 mm	580 mm	215 mm	4.5 kg	28 mm
233750	AS-HM Trend					G 1 - 28 mm

HEAT PUMPS
ACCESSORIES AIR-WATER HEAT PUMPS

HSBC 300 (L) cool

HSBC 300 cool integral cylinder

APPLICATION: Integral cylinder for heat pump operation for DHW heating, also for simultaneous integration into heating systems for hydraulic connection and for propulsion and separation of the heat pump and heating circuit flow. Designed for use in detached houses for heating and cooling.

EQUIPMENT/CONVENIENCE: DHW cylinder, enamelled steel with directly applied foam insulation, equipped with internal indirect coil and magnesium signal anode for additional corrosion protection. Buffer cylinder, steel with directly applied foam insulation. Separable cylinders arranged one above the other, with recessed grips to facilitate handling. Hydraulic connections on the heating side routed upwards; on the DHW side towards the back. Equipped with cylinder charging pump, heating circuit pump and 3/2-way diverter valve. Hydraulic working parts are thermally insulated before the cylinder foam insulation is applied and are arranged behind the front panel. Prepared for optional extension with a heating circuit with mixer. Cylinder casing consisting of plastic jacket in pure white (permanently attached at the sides and rear), removable front panel made from sheet metal in white.

EFFICIENCY: Low standby losses due to high grade thermal insulation.

- DHW cylinder and buffer cylinder in a single appliance for space saving installation
- Hydraulic connection between heat pump module and DHW cylinder and heating circuit
- DHW connections to be made towards the back, or alternatively to the top
- High level of integration – Minimal installation effort
- Equipment matched to recommended heat pump types
- High efficiency thanks to highly effective thermal insulation
- Suitable for cooling via fan convectors (7 °C/12 °C)

Part No.	Model	Nominal capacity, DHW cylinder	Nominal capacity, buffer cylinder	Height	Width	Depth
236686	HSBC 300 cool	270 l	100 l	1918 mm	680 mm	910 mm

Specification

Model	HSBC 300 cool
Energy efficiency class	B
Standby energy consumption/24 h at 65 °C	1.50 kWh
Surface, indirect coil	3.3 m²
Heat pump connection	28 mm
Heating circuit connection	22 mm
Cold water connection	G 1 A
DHW connection	G 1 A
DHW circulation connection	G ½ A
Height of unit when tilted	2123 mm
Weight	250 kg
Suitable for	WPL 15/20/25 AC(S), WPL 19/24 I

HEAT PUMPS
ACCESSORIES AIR-WATER HEAT PUMPS

HSBC 300 (L) cool

HSBC 300 L cool integral cylinder

APPLICATION: Integral cylinder for heat pump operation for DHW heating, also for simultaneous integration into heating systems for hydraulic connection and for propulsion and separation of the heat pump and heating circuit flow. Designed for use in detached houses for heating and cooling.

EQUIPMENT/CONVENIENCE: DHW cylinder, enamelled steel with directly applied foam insulation, equipped with internal indirect coil and magnesium signal anode for additional corrosion protection. Buffer cylinder, steel with directly applied foam insulation. Separable cylinders arranged one above the other, with recessed grips to facilitate handling. Hydraulic connections on the heating side routed upwards; on the DHW side towards the back. Equipped with heating circuit pump and 3/2-way diverter valve. Connection adaptors provided for joining/separating the flow and return, depending on the heat pump type. Hydraulic working parts are thermally insulated before the cylinder foam insulation is applied and are arranged behind the front panel. Prepared for optional extension with a heating circuit with mixer. Cylinder casing consisting of plastic jacket in pure white (permanently attached at the sides and rear), removable front panel made from sheet metal in white.

EFFICIENCY: Low standby losses due to high grade thermal insulation.

- DHW cylinder and buffer cylinder in a single appliance for space saving installation
- Hydraulic connection between heat pump module and DHW cylinder and heating circuit
- DHW connections to be made towards the back, or alternatively to the top
- High level of integration – Minimal installation effort
- Not equipped with a cylinder charging pump; matched to recommended heat pump types
- High efficiency thanks to highly effective thermal insulation
- Suitable for cooling via fan convectors (7 °C/12 °C)

Part No.	Model	Nominal capacity, DHW cylinder	Nominal capacity, buffer cylinder	Height	Width	Depth
238826	HSBC 300 L cool	270 l	100 l	1918 mm	680 mm	910 mm

Specification

Model	HSBC 300 L cool
Energy efficiency class	B
Standby energy consumption/24 h at 65 °C	1.5 kWh
Surface, indirect coil	3.3 m²
Heat pump connection	28 mm
Heating circuit connection	22 mm
Cold water connection	G 1 A
DHW connection	G 1 A
DHW circulation connection	G ½ A
Height of unit when tilted	2123 mm
Weight	248 kg
Suitable for	WPL 07/09/13/17 ICS/IKCS classic, WPL 19/24 IK, WPF 04/05/07/10 (cool)

RBS-SBC

Pipe assembly for HSBC 300 (L) cool integral cylinder

Insulated pipe assembly, for use with 300 integral cylinders. As a set for optional, simple upward routing of the DHW connections downstream of the cylinder. From there, the on-site connections are made to the copper connectors. Pipes are run through an installation rail (to be mounted on the integral cylinder) to align the individual pre-assembled connection lines.

- Optional relocation of the DHW connections to the top, behind the cylinder
- Straightforward connection technology on the cylinder using union nuts and copper connectors on site

Part No.	Model	Suitable for
238827	RBS-SBC	...SBC 300 cool / plus and 300 L cool / plus

Specification

Model	RBS-SBC
Cold water connection	22 mm
DHW connection	22 mm
DHW circulation connection	12 mm

HEAT PUMPS
ACCESSORIES AIR-WATER HEAT PUMPS

HSBC 200

Integral cylinder HSBC 200

APPLICATION: Integral cylinder for heat pump operation for DHW heating, also for simultaneous integration into heating systems for hydraulic connection and for propulsion and separation of the heat pump and heating circuit flow. For use in detached houses.

EQUIPMENT/CONVENIENCE: DHW cylinder, enamelled steel with directly applied foam insulation, equipped with internal indirect coil and magnesium signal anode for additional corrosion protection. Buffer cylinder, steel with directly applied foam insulation. Separable cylinders arranged one above the other, with recessed grips to facilitate handling. Hydraulic connections at the top. Equipped with WPM 3 heat pump manager with backlit symbol and plain text display, cylinder charging pump, heating circuit pump, 3/2-way diverter valve, safety valve with drain routed out of the rear of the appliance and electric emergency/booster heater. Prepared for optional extension with a heating circuit with mixer. Cylinder casing consisting of plastic jacket in pure white (permanently attached at the sides and rear), removable front panel made from sheet metal in white with designer fascia in Eloxal silver.

EFFICIENCY: Low standby losses and cylinder capacity sized to suit the application.

- DHW cylinder and buffer cylinder in a single appliance for space saving installation
- Hydraulic connection between heat pump module and DHW cylinder and heating circuit
- High level of integration – Minimal installation effort
- Equipment matched to recommended heat pump types
- Integral heat pump manager WPM
- Suitable for cooling via area heating system (18 °C / 23 °C)

Part No.	Model	Nominal capacity, DHW cylinder	Nominal capacity, buffer cylinder	Height	Width	Depth
233510	HSBC 200	168 l	100 l	1908 mm	680 mm	871 mm
234801	HSBC 200 S	168 l	100 l	1908 mm	680 mm	871 mm

Specification

Model	HSBC 200	HSBC 200 S
Energy efficiency class	B	B
Standby energy consumption/24 h at 65 °C	1.3 kWh	1.30 kWh
Surface, indirect coil	3.3 m²	3.3 m²
Rated control voltage	230 V	230 V
Rated voltage, emergency/booster heater	400 V	230 V
Power consumption, emergency/booster heater	8.8 kW	5.90 kW
Heat pump connection	28 mm	28 mm
Heating circuit connection	22 mm	22 mm
Cold water connection	22 mm	22 mm
DHW connection	22 mm	22 mm
DHW circulation connection	12 mm	12 mm
Height of unit when tilted	2107 mm	2107 mm
Weight	203 kg	203 kg
Suitable for	WPL 19/24 I, WPL 15/20/25 AC(S), WPL 07/09/13/17 ACS classic, WPL 33 HT(S)	WPL 19/24, WPL 15/20/25 AC(S), WPL classic, WPL 33 HT(S), HPA-O Premium, HPA-O plus

HEAT PUMPS
ACCESSORIES AIR-WATER HEAT PUMPS

HSBC 200 L

HSBC 200 L integral cylinder

APPLICATION: Integral cylinder for heat pump operation for DHW heating, also for simultaneous integration into heating systems for hydraulic connection and for propulsion and separation of the heat pump and heating circuit flow. For use in detached houses.

EQUIPMENT/CONVENIENCE: DHW cylinder, enamelled steel with directly applied foam insulation, equipped with internal indirect coil and magnesium anode for additional corrosion protection. Buffer cylinder, steel with directly applied foam insulation. Separable cylinders arranged one above the other, with recessed grips to facilitate handling. Hydraulic connections at the top; cold water and DHW circulation at the back. Equipment with heating circuit pump. Prepared for optional extension with a heating circuit with mixer. Cylinder casing consisting of plastic jacket in pure white (permanently attached at the sides and rear) and removable front panel made from sheet metal in white.

EFFICIENCY: Low standby losses and cylinder capacity sized to suit the application.

- DHW cylinder and buffer cylinder in a single appliance for space saving installation
- Hydraulic connection between heat pump module and DHW cylinder and heating circuit
- High level of integration – Minimal installation effort
- Equipment matched to recommended heat pump types
- Suitable for cooling via area heating system (18 °C / 23 °C)

Part No.	Model	Nominal capacity, DHW cylinder	Nominal capacity, buffer cylinder	Height	Width	Depth
236684	HSBC 200 L	180 l	100 l	1908 mm	680 mm	800 mm

Specification

Model	HSBC 200 L
Energy efficiency class	B
Standby energy consumption/24 h at 65 °C	1.30 kWh
Surface, indirect coil	1.6 m²
Rated voltage	230 V
Heat pump connection	22 mm
Heating circuit connection	22 mm
Cold water connection	G 1 A
DHW connection	22 mm
DHW circulation connection	G ½ A
Height of unit when tilted	2107 mm
Weight	185 kg
Suitable for	WPL 09/17 ICS/IKCS classic

HSBC-HKM

HSBC 3-HKM

Mixer circuit pump assembly for integral cylinder

Mixer circuit pump assembly for integral cylinder as a set for extending a heating circuit with mixer. The assembly comprises insulated connection pipework, the heating circuit pump and 3-way mixer with servomotor. It is intended for use inside the integral cylinder using the prepared connections.

- Optional extension with a heating circuit with mixer
- Straightforward installation of the prefitted set in the integral cylinder
- Hydraulic connections at the top towards the front

Part No.	Model	Suitable for	Heating circuit connection
238825	HSBC 3-HKM	...SBC 300 cool / plus and 300 L cool / plus	22 mm
234648	HSBC-HKM	...SBC 200 and 200 L / eco	22 mm

HEAT PUMPS
ACCESSORIES AIR-WATER HEAT PUMPS

HSBB 200

Cylinder and hydraulic module HSBB 200

APPLICATION: Cylinder and hydraulic module for heat pump operation as a set including a WPL classic heating heat pump for DHW heating and simultaneous integration into heating systems, for hydraulic connection and delivery of the heat pump/heating circuit flow. For use in detached houses.

EQUIPMENT/CONVENIENCE: DHW cylinder, enamelled steel with directly applied foam insulation, equipped with internal indirect coil and magnesium anode for additional corrosion protection. Hydraulic connections at the top or rear of the appliance (cold water and DHW circulation). Equipped with WPM heat pump manager with backlit symbol and plain text display, circulation pump, 3/2-way diverter valve, 12 litre expansion vessel for the heating system, safety valve with drain connector routed out of the rear of the appliance and electric emergency/booster heater. Cylinder casing consisting of plastic jacket in pure white (permanently attached at the sides and rear), removable cover in telegrey and removable front panel made of sheet metal in white.

EFFICIENCY: Low standby losses due to high grade thermal insulation as well as an optimised cylinder capacity and a heat transfer area appropriate to the application.

- Compact DHW cylinder with integral hydraulic components for connection to heat pump and heating circuit
- High level of integration – Minimal installation effort
- Integral heat pump manager WPM
- Integral heating expansion vessel
- Little space is required
- Suitable for cooling via area heating system (18 °C / 23 °C)

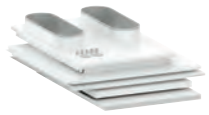
Part No.	Model
235197	HSBB 200 S

Specification

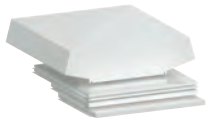
Model	HSBB 200 S
Energy efficiency class	B
Standby energy consumption/24 h at 65 °C	1.30 kWh
Nominal capacity, DHW cylinder	181 l
Surface, indirect coil	1.6 m²
Rated control voltage	230 V
Rated voltage, emergency/booster heater	230 V
Power consumption, emergency/booster heater	5.90 kW
Heat pump connection	22 mm
Heating circuit connection	22 mm
Cold water connection	G 1 A
DHW connection	22 mm
DHW circulation connection	G 1/2 A
Height	1328 mm
Width	694 mm
Depth	875 mm
Height of unit when tilted	1483 mm
Weight	150 kg

HEAT PUMPS
ACCESSORIES AIR-WATER HEAT PUMPS

ZVK-WPL indoor installation



ZVK-WPL outdoor installation



Casing for Air-water heat pumps
The painted metal casings are a vital accessory for Air-water heat pumps.

Part No.	Model	Suitable for	Colour
074412	ZVK-WPL 13/18/23 I	WPL 13/18/23	white
074413	ZVK-WPL 13/18/23 A	WPL 13/18/23	white
231890	ZVK-WPL 13/18/23 A SR	WPL 13/18/23	silver

HEAT PUMPS
ACCESSORIES AIR-WATER HEAT PUMPS

WPIC

WPIC 3 - compact air handling module for WPL 13/18/23 E

The compact air handling module enables easy, neat connection of the air ducts to the external walls. The buffer cylinder, DHW charging pump and heat pump manager are already integrated and pre-installed. The module is supplied with a safety assembly for the heating circuit. The WPIC module comprises all casing parts required for an indoor heat pump.

- Suitable for WPL E and WPL cool of the series 13/18/23
- Circulation pump with energy efficiency category A
- Integral heat pump manager WPM 3
- Pre-assembled thermally insulated air hoses included in the pack.
- Anti-vibration fittings DN 32: 40 cm packed separately
- Anti-vibration fittings DN 32: 100 cm packed separately

Part No.	Model	Height	Width	Depth
235874	WPIC 3	637 mm	1240 mm	800 mm

Specification

Model	WPIC 3
Weight	80 kg
External available pressure differential at 1.0 m³/h	681 hPa
External available pressure differential at 1.4 m³/h	610 hPa
External available pressure differential at 2 m³/h	454 hPa
Rated control voltage	230 V
Connection on the heating system side	G 1 ¼
Diameter, air hose	560 mm
IP-Rating	IP1XB

The required AWG 560 wall outlets are available in horizontal or vertical form and as light shaft versions. AWG 560 H-SR (233837), AWG 560 V-SR (233838), AWG 560 L (231041)

HEAT PUMPS
ACCESSORIES AIR-WATER HEAT PUMPS

AWG 315 SR

AWG 315 GL

AWG 315/600 L

Air routing, wall transition AWG 315

Thermally insulated external wall outlet for routing air from Air-water heat pumps installed indoors, with round connection for DN 315.

- AWG 315 SR with silver metallic painted weather grille
- AWG 315 GL with grey painted weather grille
- AWG 315 L for the light shaft version

Part No.	Model
233836	AWG 315 SR
232955	AWG 315 GL
231039	AWG 315 L

Specification

Model	AWG 315 SR	AWG 315 GL	AWG 315 L
Colour	silver metallic	RAL 9006	Aluminium, anodised
Internal diameter	315 mm	315 mm	315 mm
Height	490 mm	490 mm	477 mm
Width	483 mm	483 mm	479 mm
Depth	627 mm	627 mm	625 mm
Straight-through aperture min.	450x450 mm	450x450 mm	450x450 mm

HEAT PUMPS
ACCESSORIES AIR-WATER HEAT PUMPS

AWG 560 H-SR

AWG 560 V-SR

AWG 560 H-GL

AWG 560 V-GL

AWG 560 L

AWG 315/600 L

Air routing, wall transition AWG 560/600

Thermally insulated external wall outlet for routing air from Air-water heat pumps installed indoors, with oval connection for DN 560.

- AWG 560 H-SR horizontal with silver metallic painted weather grille
- AWG 560 H-GL horizontal with grey painted weather grille
- AWG 560 V- SR vertical with silver metallic painted weather grille
- AWG 560 V-GL vertical with grey painted weather grille
- AWG 560/600 L for the light shaft version

Part No.	Model
233837	AWG 560 H-SR
232956	AWG 560 H-GL
231041	AWG 560 L
233838	AWG 560 V-SR
232957	AWG 560 V-GL
231044	AWG 600 L

Specification

Model	AWG 560 H-SR	AWG 560 H-GL	AWG 560 L	AWG 560 V-SR	AWG 560 V-GL	AWG 600 L
Colour	silver metallic	RAL 9006	Aluminium, anodised	silver metallic	RAL 9006	Aluminium, anodised
Internal diameter	560 mm	560 mm	560 mm	560 mm	560 mm	560 mm
Suitable for	WPL 13/18/ 19/23/24/33	WPL 13/18/ 19/23/24/33	WPL 13/18/ 19/23/24/33	WPL 13/18/ 19/23/24/33	WPL 13/18/ 19/23/24/33	WPL 13/18/ 19/23/24/33
Height	490 mm	490 mm	477 mm	894 mm	894 mm	647 mm
Width	897 mm	897 mm	878 mm	483 mm	483 mm	649 mm
Depth	627 mm	627 mm	625 mm	627 mm	627 mm	525 mm

HEAT PUMPS
ACCESSORIES AIR-WATER HEAT PUMPS

Hose connection panel LWZ/WPL

LSWP 315/560-4 S air hose

Air hose SG

LLB AWG 315/560 L

LWF SF 315-1

Air routing accessories; internal installation

Accessory for routing air with Air-water heat pumps installed indoors.

- LSWP 315/560-4 S sound-optimised air hose, with 50 mm thermal insulation and aluminium coloured outer sheath
- LSWP 315/560-4 SG sound-optimised air hose, with 50 mm thermal insulation and grey coloured outer sheath
- LLB AWG 315/560 L exhaust air deflector for the light shaft
- LWF SF 315-1 silencer

Part No.	Model	Suitable for	Length
234646	LSWP 315-4 S	09/17	4 m
201618	LSWP 315-4 SG	09/17	4 m
201721	LSWP 560-3 SG	13/18/19/23/24/33	3 m
234647	LSWP 560-4 S	13/18/19/23/24/33	4 m
201619	LSWP 560-4 SG	13/18/19/23/24/33	4 m
232341	LLB AWG 315 L	AWG 315 L	
232342	LLB AWG 560 L	AWG 560 L	
003478	Hose connection plate DN 560	13/18/19/23/24/33	
170018	LWF SF 315-1	09/17	1 m

HEAT PUMPS
ACCESSORIES AIR-WATER HEAT PUMPS

PK 10

Condensate pump

Condensate pump with hose connection for indoor Air-water heat pumps.

- Compact design
- Quiet operation
- Alarm contact closed at zero volt
- Integral 2.0 l cylinder
- Integral non-return valve

Part No.	Model	Max. head	Max. pump rate
229286	PK 10	5 m	500 l/h

Specification

Model	PK 10
Power consumption	70 W
Power connection	1/N/PE~230 V
Height	171 mm
Width	279 mm
Depth	130 mm
Weight	2 kg

Ribbon heater

Ribbon heater for condensate connection

Self-limiting flexible ribbon heater to keep the condensate connection for air source heat pumps free of ice.

Part No.	Model	Rated	Power supply
232978	HZB-1	230 V	1/N/PE
232979	HZB-2	230 V	1/N/PE

Duct silencer KSD 13/18/23

Duct silencer for WPL 13/18/19/23/24/33 (only for outdoor installation)

Duct silencer for intake and discharge apertures for reducing sound emissions. Subject to appliance, this will reduce the sound pressure level by up to 3 dB.

- Duct silencer for intake and discharge aperture included in standard delivery
- KSD 1 suitable for heat pump series 13/18/23
- KSD 2 suitable for heat pump series 33

Part No.	Model	Colour
185325	KSD 1	white
185370	KSD 2	white

NOTES

Brine-water heat pumps

WPE-I 33/44 H 400 Premium

WPE-I 59/87 H 400 Premium

INVERTER GROUND SOURCE HEAT PUMPS

WPE-I 33/44/59/87 H 400 Premium

APPLICATION: Inverter Brine-Water heat pump with output-dependent control for indoor installation. Can be used in mono mode to provide heating and DHW. With the help of additional hydraulic components, the existing source system can be used for passive and active cooling, or even for simultaneous heating and cooling. Suitable for apartment buildings and commercial applications. For a high heating output, up to 16 heat pumps can be connected in a cascade. Optimised for small installation area thanks to vertical design.

EQUIPMENT/CONVENIENCE: The integral inverter makes the heat pump extremely flexible and versatile, enabling it to be installed in different types of building. The inverter continually adapts the heating output of the heat pump to the amount of energy currently required. One high efficiency circulation pump is provided for the brine side and one for the heating side. During normal heat pump operation, the hot gas technology enables the hot gas to be utilised directly to simultaneously heat the DHW via an additional heat exchanger. The integral heat pump controller with colour touchscreen enables fully automated, weather-compensated control of the heating system and, when combined with the optional ISG, the ability to control the system via a home network or a mobile terminal device. External control of the heating system by a building management system is possible as an option. To minimise the transfer of structure-borne sound to the building, the refrigerant circuit is mounted on an anti-vibration base plate and its hydraulic connections are flexible. The refrigerant circuit is hermetically sealed, tested for tightness at the factory and filled with safety refrigerant R410A.

EFFICIENCY: The integral inverter ensures optimum heat pump operation all year round and consequently maximum efficiency. The standard hot gas technology enables high DHW temperatures to be achieved very efficiently and at low cost.

INSTALLATION: Internal pressure hoses allow a direct hydraulic connection to the heating and brine circuits. The high level of integration ensures quick and simplified installation, even with larger systems. The appliances are fully installed and delivered ready for operation.

- Very efficient DHW heating using hot gas technology
- Inverter technology: Variable speed compressor for maximum efficiency and minimum operating noise
- Extremely versatile due to cascade control and dual mode integration
- Intuitive operation via colour touchscreen
- Easy to integrate thanks to various BMW interfaces

Part No.	Model	Heating output at B0/W35 (min/max)	Output at B0/W35 (EN 14511)	Coefficient of performance at B0/W35 (EN 14511)
201412	WPE-I 33 H 400 Premium	10 - 33 kW	20,18 kW	4.73
201413	WPE-I 44 H 400 Premium	11 - 44 kW	26,71 kW	4.6
201414	WPE-I 59 H 400 Premium	14 - 59 kW	35,60 kW	4.5
201415	WPE-I 87 H 400 Premium	21 - 87 kW	52,00 kW	4.71

Specification

Model	WPE-I 33 H 400 Premium	WPE-I 44 H 400 Premium	WPE-I 59 H 400 Premium	WPE-I 87 H 400 Premium
Energy efficiency class, heat pump W35	A+++	A+++	A+++	A+++
Energy efficiency class, W55 heat pump	A+++	A+++	A+++ A+++	A+++
SCOP (EN 14825)	5.55	5.65	5.19	5.17
Max. heating flow temperature	65 °C	65 °C	65 °C	65 °C
Max. application limit on the heating side	65 °C	65 °C	65 °C	65 °C
Sound power level (EN 12102)	41-56 dB(A)	41-56 dB(A)	46-61 dB(A)	46-63 dB(A)
Rated compressor voltage	400 V	400 V	400 V	400 V
Hot gas connection	28.00 mm	28.00 mm	28.00 mm	28.00 mm
Height	1723 mm	1723 mm	1742 mm	1742 mm
Width	692 mm	692 mm	900 mm	900 mm
Depth	803 mm	803 mm	848 mm	848 mm
Weight	300 kg	300 kg	430 kg	550 kg

HEAT PUMPS
INVERTER GROUND SOURCE HEAT PUMPS

EM WPE-I 33-87

Extension module

Extension module for additional control of other functions, such as other heating circuits or additional heat generators.

› Swimming pool controller
› Additional mixing circuit controller

Part No.	Model
201715	EM WPE-I 33-87

HG set WPE-I 33-87

Hot gas set

Set for DHW heating via hot gas. Comprising 1x circulation pump and 1x line regulating valve.

Part No.	Model
201716	HG set WPE-I 33-87

FE WPE-I 33-87

Remote control FE

Remote control with integral sensor for capturing the room temperature in the lead room. The room/set temperature can also be adjusted. For use exclusively with the WPE-I 33-87.

› Suitable for WPE-I 33-87

Part No.	Model
201767	FE WPE-I 33-87

SD

Pressure hoses for flow and return SD...G

Pressure hoses for flow and return lines (without insulation). With threaded fitting on one side and locking ring fitting on the other.

Part No.	Model	For pressure hose size DN	Length	External diameter	Connections for the heating and source side
201710	SD 32-0.6 G	32	620 mm	52 mm	35 mm / G 1 ¼
201711	SD 40-0.8 G	40	820 mm	60 mm	42 mm / G 1 ½

SDB

Pressure hoses for brine flow and return SDB...G

Pressure hoses for brine flow and return lines (without insulation). With threaded fitting on one side and locking ring fitting on the other.

Part No.	Model	For pressure hose size DN	Length	External diameter	Connections for the heating and source side
201713	SDB 40-0.8 G	40	820 mm	57 mm	42 mm / G 1 ½
201714	SDB 50-0.8 G	50	820 mm	67 mm	54 mm / G 2

HEAT PUMPS
BRINE-WATER HEAT PUMPS

WPC

DESIGN PLUS powered by building

reddot award 2014 winner

German Design Award SPECIAL MENTION 2015

WPC 04/05/07/10/13

APPLICATION: Compact Brine-Water heat pump for indoor installation with integral DHW cylinder and high level of integration. Can be used in mono mode to provide heating and DHW in new builds and modernisation projects due to the high flow temperatures. The compact design of the appliance requires only a very small installation area.

EQUIPMENT/CONVENIENCE: To minimise the transfer of structure-borne sound to the building, the refrigerant circuit is mounted on an anti-vibration base plate. The consistent source temperature guarantees unchanging heating output all year round, with flow temperatures up to 65 °C. The integral heat pump controller enables fully automated, weather-compensated control of the heating system and, when combined with the optional ISG, the ability to control the system via a home network or a mobile terminal device. With integral heat and electricity metering via refrigerant circuit data. One high efficiency circulation pump is provided for the brine side and one for the heating side. An electric emergency/booster heater for mono energetic operation and pasteurisation, diverter valve for DHW heating, brine pressure switch to monitor pressure in the brine circuit, and safety valve with discharge hose are integrated as standard. The refrigerant circuit is hermetically sealed, tested for tightness at the factory and filled with safety refrigerant R410A.

EFFICIENCY: The heat pump unit is equipped with a scroll compressor with a soft starter and optimised heat exchangers for improved efficiency.

INSTALLATION: The supplied pressure hoses enable direct hydraulic connection to the heating side and source side. The metal casing is corrosion-protected and made from galvanised, powder-coated sheet steel, with an alpine white stove enamel finish. To facilitate heat pump handling, the refrigerant circuit can be separated from the cylinder module with little effort. Carrying handles at the top and bottom make it easier to transport the appliance.

- Compact Brine-Water heat pump for heating
- High COP all year round enables low running costs
- Available as a „cool“ version for passive cooling via a geothermal probe system to minimise operating costs
- Easy and space-saving installation thanks to integral DHW cylinder and high level of integration
- Extremely quiet operation thanks to multiple anti-vibration coupling
- Easier handling through split design and handles
- Flow temperatures up to 65 °C ensure high level of DHW convenience
- Integral brine pressure switch for monitoring the source circuit pressure

Part No.	Model	Output at B0/W35 (EN 14511)	Coefficient of performance at B0/W35 (EN
232926	WPC 04	4,77 kW	4.5
232927	WPC 05	5,82 kW	4.8
232928	WPC 07	7,50 kW	4.84
232929	WPC 10	10,31 kW	5.02
232930	WPC 13	13,21 kW	4.82
232931	WPC 04 cool	4,77 kW	4.5
232932	WPC 05 cool	5,82 kW	4.8
232933	WPC 07 cool	7,50 kW	4.84
232934	WPC 10 cool	10,31 kW	5.02
232935	WPC 13 cool	13,21 kW	4.82

„Cool“ versions available until May 2020.

Specification

Model	WPC 04	WPC 05	WPC 07	WPC 10	WPC 13	WPC 04 cool	WPC 05 cool	WPC 07 cool	WPC 10 cool	WPC 13 cool
Energy efficiency class, heat pump W35	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
Energy efficiency class, W55 heat pump	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++
Energy efficiency class, DHW heating, load profile L	A	A	A	A	A	A	A	A	A	A
SCOP (EN 14825)	4.925	5.325	5.325	5.6	5.275	4.925	5.325	5.325	5.6	5.275
Max. application limit on the heating side	65 °C	65 °C	65 °C	65 °C	65 °C	65 °C	65 °C	65 °C	65 °C	65 °C
Sound power level W35 (EN 12102)	43 dB(A)	45 dB(A)	50 dB(A)	51 dB(A)	52 dB(A)					
Rated compressor voltage	400 V	400 V	400 V	400 V	400 V	400 V	400 V	400 V	400 V	400 V
Rated voltage, emergency/booster heater	400 V	400 V	400 V	400 V	400 V	400 V	400 V	400 V	400 V	400 V
Surface, indirect coil	2.1 m²	2.1 m²	2.1 m²	3.6 m²	3.6 m²	2.1 m²	2.1 m²	2.1 m²	3.6 m²	3.6 m²
Rated capacity	175 l	175 l	175 l	162 l	162 l	175 l	175 l	175 l	162 l	162 l
Height / Width / Depth	1917 / 600 / 703 mm	1917 / 600 / 703 mm	1917 / 600 / 703 mm	1917 / 600 / 703 mm	1917 / 600 / 703 mm	1917 / 600 / 703 mm	1917 / 600 / 703 mm	1917 / 600 / 703 mm	1917 / 600 / 703 mm	1917 / 600 / 703 mm
Weight	243 kg	246 kg	259 kg	277 kg	283 kg	248 kg	251 kg	264 kg	283 kg	288 kg

HEAT PUMPS
BRINE-WATER HEAT PUMPS

WPC

DESIGN PLUS

WPC 05/07/10/13 S

APPLICATION: Compact Brine-Water heat pump for indoor installation with integral DHW cylinder and high level of integration. Can be used in mono mode to provide heating and DHW in new builds and modernisation projects due to the high flow temperatures. The compact design of the appliance requires only a very small installation area.

EQUIPMENT/CONVENIENCE: To minimise the transfer of structure-borne sound to the building, the refrigerant circuit is mounted on an anti-vibration base plate. The consistent source temperature guarantees unchanging heating output all year round, with flow temperatures up to 60 °C. The integral heat pump controller enables fully automated, weather-compensated control of the heating system and, when combined with the optional ISG, the ability to control the system via a home network or a mobile terminal device. With integral heat and electricity metering via refrigerant circuit data. One high efficiency circulation pump is provided for the brine side and one for the heating side. An electric emergency/booster heater for mono energetic operation and pasteurisation, diverter valve for DHW heating and safety valve with discharge hose are integrated as standard. The refrigerant circuit is hermetically sealed, tested for tightness at the factory and filled with safety refrigerant R410A.

EFFICIENCY: The heat pump unit is equipped with a scroll compressor with a soft starter and optimised heat exchangers for improved efficiency.

INSTALLATION: The supplied pressure hoses enable direct hydraulic connection to the heating side and source side. The metal casing is corrosion-protected and made from galvanised, powder-coated sheet steel, with an alpine white stove enamel finish. To facilitate heat pump handling, the refrigerant circuit can be separated from the cylinder module with little effort. Carrying handles at the top and bottom make it easier to transport the appliance.

- High COP all year round enables low running costs
- Easy and space-saving installation thanks to integral DHW cylinder and high level of integration
- Extremely quiet operation thanks to multiple anti-vibration coupling
- Easier handling through split design and handles
- Flow temperatures up to 65 °C ensure high level of DHW convenience

Part No.	Model	Output at B0/W35 (EN 14511)	Coefficient of performance at B0/W35 (EN
232937	WPC 05 S	5,88 kW	4.78
232938	WPC 07 S	7,61 kW	4.75
232939	WPC 10 S	10,31 kW	4.76
232940	WPC 13 S	13,01 kW	4.75

Specification

Model	WPC 05 S	WPC 07 S	WPC 10 S	WPC 13 S
Energy efficiency class, heat pump W35	A+++	A+++	A+++	A+++
Energy efficiency class, W55 heat pump	A++	A++	A++	A++
Energy efficiency class, DHW heating, load profile L	A	A	A	A
SCOP (EN 14825)	5.225	5.3	5.2	5.175
Max. application limit on the heating side	65 °C	65 °C	65 °C	65 °C
Sound power level W35 (EN 12102)	45 dB(A)	50 dB(A)	51 dB(A)	52 dB(A)
Rated compressor voltage	230 V	230 V	230 V	230 V
Rated voltage, emergency/booster heater	230 V	230 V	230 V	230 V
Starting current	31 A	30 A	41 A	34 A
Surface, indirect coil	2.1 m²	2.1 m²	3.6 m²	3.6 m²
Rated capacity	175 l	175 l	162 l	162 l
Height	1917 mm	1917 mm	1917 mm	1917 mm
Width	600 mm	600 mm	600 mm	600 mm
Depth	703 mm	703 mm	703 mm	703 mm
Weight	246 kg	259 kg	277 kg	283 kg

HEAT PUMPS
BRINE-WATER HEAT PUMPS

WPF

reddot design award winner 2009

WPF 04/05/07/10/13/16

APPLICATION: Brine-water heat pump for indoor installation with a high level of integration. Can be used in mono mode to provide heating and DHW in new builds and modernisation projects due to the high flow temperatures. Can also be used for apartment buildings, depending on the heat load of the building.

EQUIPMENT/CONVENIENCE: To minimise the transfer of structure-borne sound to the building, the refrigerant circuit is mounted on an anti-vibration base plate. The consistent source temperature guarantees unchanging heating output all year round, with flow temperatures up to 65 °C. The integral heat pump controller enables fully automated, weather-compensated control of the heating system and, when combined with the optional ISG, the ability to control the system via a home network or a mobile terminal device. With integral heat and electricity metering via refrigerant circuit data. A high efficiency circulation pump and expansion vessel are provided for both the brine side and the heating side. An electric emergency/booster heater for mono energetic operation and pasteurisation, diverter valve for DHW heating, brine pressure switch to monitor pressure in the brine circuit, and safety valve with discharge hose are integrated as standard. The refrigerant circuit is hermetically sealed, tested for tightness at the factory and filled with safety refrigerant R410A.

EFFICIENCY: The heat pump unit is equipped with a scroll compressor with a soft starter and optimised heat exchangers for improved efficiency.

INSTALLATION: The internal pressure hoses enable direct hydraulic connection to the heating and brine circuits. For easy installation, the hydraulic connections are equipped with quick-release fittings and are already thermally insulated. The metal casing is corrosion-protected and made from galvanised, powder-coated sheet steel, with an alpine white stove enamel finish. Carrying handles on the back panel facilitate appliance handling.

- Brine-Water heat pump for heating
- High COP all year round enables low running costs
- Available as a „cool“ version for passive cooling via a geothermal probe system to minimise operating costs
- Easy and time-saving installation with high level of integration
- Extremely quiet operation thanks to multiple anti-vibration coupling
- Flow temperatures up to 65 °C ensure high level of DHW convenience
- Integral brine pressure switch for monitoring the source circuit pressure

Part No.	Model	Output at B0/W35 (EN 14511)	Coefficient of performance at B0/W35 (EN 14511)
232909	WPF 04	4,77 kW	4.5
232910	WPF 05	5,82 kW	4.8
232911	WPF 07	7,50 kW	4.84
232912	WPF 10	10,31 kW	5.02
232913	WPF 13	13,21 kW	4.82
232914	WPF 16	17,02 kW	4.54
232915	WPF 04 cool	4,77 kW	4.5
232916	WPF 05 cool	5,82 kW	4.8
232917	WPF 07 cool	7,50 kW	4.84
232918	WPF 10 cool	10,31 kW	5.02
232919	WPF 13 cool	13,21 kW	4.82

„Cool“ versions available until May 2020.

Specification

Model	WPF 04	WPF 05	WPF 07	WPF 10	WPF 13	WPF 16	WPF 04 cool	WPF 05 cool	WPF 07 cool	WPF 10 cool	WPF 13 cool	WPF 16 cool
Energy efficiency class, heat pump W35	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
Energy efficiency class, W55 heat pump	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++
SCOP (EN 14825)	4.925	5.325	5.325	5.6	5.275	4.925	4.925	5.325	5.325	5.6	5.275	4.925
Max. application limit on the heating side	65 °C	65 °C	65 °C	65 °C	65 °C	65 °C	65 °C	65 °C	65 °C	65 °C	65 °C	65 °C
Sound power level W35 (EN 12102)	43 dB(A)	44 dB(A)	48 dB(A)	48 dB(A)	49 dB(A)	53 dB(A)						
Rated compressor voltage	400 V	400 V	400 V	400 V	400 V	400 V	400 V	400 V	400 V	400 V	400 V	400 V
Rated voltage, emergency/booster heater	400 V	400 V	400 V	400 V	400 V	400 V	400 V	400 V	400 V	400 V	400 V	400 V
Height	1319 mm	1319 mm	1319 mm	1319 mm	1319 mm	1319 mm	1319 mm	1319 mm	1319 mm	1319 mm	1319 mm	1319 mm
Width	598 mm	598 mm	598 mm	598 mm	598 mm	598 mm	598 mm	598 mm	598 mm	598 mm	598 mm	598 mm
Depth	658 mm	658 mm	658 mm	658 mm	658 mm	658 mm	658 mm	658 mm	658 mm	658 mm	658 mm	658 mm
Weight	142 kg	144 kg	161 kg	168 kg	171 kg	185 kg	158 kg	160 kg	165 kg	177 kg	182 kg	192 kg

HEAT PUMPS
BRINE-WATER HEAT PUMPS

WPF

WPF 05/07/10/13 S

APPLICATION: Brine-water heat pump for indoor installation with a high level of integration. Can be used in mono mode to provide heating and DHW in new builds and modernisation projects due to the high flow temperatures. Can also be used for apartment buildings, depending on the heat load of the building.

EQUIPMENT/CONVENIENCE: To minimise the transfer of structure-borne sound to the building, the refrigerant circuit is mounted on an anti-vibration base plate. The consistent source temperature guarantees unchanging heating output all year round, with flow temperatures up to 60 °C. The integral heat pump controller enables fully automated, weather-compensated control of the heating system and, when combined with the optional ISG, the ability to control the system via a home network or a mobile terminal device. With integral heat and electricity metering via refrigerant circuit data. A high efficiency circulation pump and expansion vessel are provided for both the brine side and the heating side. An electric emergency/booster heater for mono energetic operation and pasteurisation, diverter valve for DHW heating and safety valve with discharge hose are integrated as standard. The refrigerant circuit is hermetically sealed, tested for tightness at the factory and filled with safety refrigerant R410A.

EFFICIENCY: The heat pump unit is equipped with a scroll compressor with a soft starter and optimised heat exchangers for improved efficiency.

INSTALLATION: The internal pressure hoses enable direct hydraulic connection to the heating and brine circuits. For easy installation, the hydraulic connections are equipped with quick-release fittings and are already thermally insulated. The metal casing is corrosion-protected and made from galvanised, powder-coated sheet steel, with an alpine white stove enamel finish. Carrying handles on the back panel facilitate appliance handling.

- Brine-Water heat pump for heating
- High COP all year round enables low running costs
- Easy and time-saving installation with high level of integration
- Extremely quiet operation thanks to multiple anti-vibration coupling
- Flow temperatures up to 65 °C ensure high level of DHW convenience

Part No.	Model	Output at B0/W35 (EN 14511)	Power consumption at B0/W35 (EN 14511)
232922	WPF 05 S	5,88 kW	1,23 kW
232923	WPF 07 S	7,61 kW	1,60 kW
232924	WPF 10 S	10,31 kW	2,17 kW
232925	WPF 13 S	13,01 kW	2,74 kW

Specification

Model	WPF 05 S	WPF 07 S	WPF 10 S	WPF 13 S
Energy efficiency class, heat pump W35	A+++	A+++	A+++	A+++
Energy efficiency class, W55 heat pump	A++	A++	A++	A++
SCOP (EN 14825)	5.225	5.3	5.2	5.175
Max. application limit on the heating side	60 °C	60 °C	60 °C	60 °C
Sound power level W35 (EN 12102)	44 dB(A)	48 dB(A)	48 dB(A)	49 dB(A)
Rated compressor voltage	230 V	230 V	230 V	230 V
Rated voltage, emergency/booster heater	230 V	230 V	230 V	230 V
Starting current	31 A	30 A	41 A	34 A
Height	1319 mm	1319 mm	1319 mm	1319 mm
Width	598 mm	598 mm	598 mm	598 mm
Depth	658 mm	658 mm	658 mm	658 mm
Weight	144 kg	161 kg	168 kg	170 kg

HEAT PUMPS
BRINE-WATER HEAT PUMPS

WPF M

WPF 10/13/16 M

Heat pump for internal installation as combination set. Corrosion-protected casing components, made from white powder-coated, zinc-plated sheet steel. Integral starting current limiter and safety assembly for the heating circuit. Optimum control via the heat pump manager. The heat pump is filled with safety refrigerant R410A.

- Brine-Water heat pump for heating
- Suitable for cascade control for a higher output requirements
- Limit of application WQA from -5 °C to +20 °C
- Heating flow temperature up to 60 °C
- With integrated heat and electricity meters

Part No.	Model	Output at B0/W35 (EN 14511)	Coefficient of performance at B0/W35 (EN
185349	WPF 10 M	10,02 kW	4.49
182135	WPF 13 M	12,98 kW	4.57
220894	WPF 16 M	16,99 kW	4.35

Specification

Model	WPF 10 M	WPF 13 M	WPF 16 M
Energy efficiency class, heat pump W35	A+++	A+++	A+++
Energy efficiency class, W55 heat pump	A+	A+	A+
SCOP (EN 14825)	5.075	5.125	4.875
Max. application limit on the heating side	60 °C	60 °C	60 °C
Sound power level W35 (EN 12102)			
Rated compressor voltage	400 V	400 V	400 V
Height	960 mm	960 mm	960 mm
Width	510 mm	510 mm	510 mm
Depth	680 mm	680 mm	680 mm
Weight	112 kg	120 kg	125 kg

Short term (max. 30 min) HS temperature up to 40 °C permissible.

HEAT PUMPS
BRINE-WATER HEAT PUMPS

WPF/WPW Set

WPF 20/23/26/29/32 Set

The heat pump sets each comprise two WPF M heat pumps, the pipework set for heating and heat source, and the heat pump manager. The modular design enables sizing in line with the heat demand, as well as 2-stage output matching subject to outside temperature. The heat pumps are equipped with a hermetically sealed compressor, a starting current limiter, a condenser, an evaporator, safety equipment such as high and low pressure limiters, and frost protection. The heat pump is filled with safety refrigerant R410A.

- Brine-Water heat pump for heating
- Heat pump manager included in the pack
- Two HE circulation pumps are part of the standard delivery.
- Pipework set for heating and heat source included
- Heating flow temperature up to 60 °C
- Limit of application WQA from -5 °C to +20 °C
- With integrated heat and electricity meters
- A joint brine circulation pump or separate brine circulation pumps can be installed

Part No.	Model	Output at B0/W35 (EN 14511)	Coefficient of performance at B0/W35 (EN
185365	WPF 20 Set	20,04 kW	4.49
185366	WPF 23 Set	23,00 kW	4.54
182139	WPF 26 Set	25,96 kW	4.57
220896	WPF 29 Set	29,94 kW	4.44
220897	WPF 32 Set	33,98 kW	4.35

Specification

Model	WPF 20 Set	WPF 23 Set	WPF 26 Set	WPF 29 Set	WPF 32 Set
Flow rate, heat source side	4,4 m³/h	5,4 m³/h	6,2 m³/h	7,2 m³/h	8,2 m³/h
Nominal design flow rate of heating system at B0/W35 and 7 K	2.44 m³/h	2.87 m³/h	3.30 m³/h	3.63 m³/h	3.96 m³/h
Rated compressor voltage	400 V	400 V	400 V	400 V	400 V
Height	960 mm	960 mm	960 mm	960 mm	960 mm
Width	1240 mm	1240 mm	1240 mm	1240 mm	1240 mm
Depth	680 mm	680 mm	680 mm	680 mm	680 mm
Weight	224 kg	232 kg	240 kg	245 kg	250 kg

The weight is split approx. equally over both heat pumps.
See individual appliances for energy efficiency class

HEAT PUMPS
BRINE-WATER HEAT PUMPS

WPF

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DESIGN PLUS

ehpa

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DESIGNPREIS 2008 NOMINIERT

WPF 20/27/35/40/52/66

APPLICATION: Brine-Water heat pump for indoor installation or weather-protected outdoor installation. Can be used in mono mode to provide heating and DHW. With the help of additional hydraulic components, the existing source system can be used for passive and active cooling, or even for simultaneous heating and cooling. Suitable for apartment buildings and commercial applications due to an output of up to 66 kW as a single appliance or up to 400 kW in a cascade. Optimised for space saving installation thanks to fact that 2 appliances can be stacked one on top of the other.

EQUIPMENT/CONVENIENCE: To minimise the transfer of structure-borne sound to the building, the refrigerant circuit is mounted on an anti-vibration base plate. In combination with the ISG (optional accessory), the heat pump controller (accessory) can be used to control the system via a home network or a mobile terminal device. With integral heat and electricity metering via refrigerant circuit data. Fault messages can be processed externally via a 230 V signal. Can be integrated into a building automation system if required using a software extension. Robust single compressor heat pump unit with scroll compressor and stainless steel plate heat exchanger. Integral safety equipment, such as high/low pressure switch and frost protection. The refrigerant circuit is hermetically sealed, tested for tightness at the factory and filled with safety refrigerant R410A.

EFFICIENCY: The heat pump unit is equipped with a scroll compressor with a soft starter and optimised heat exchangers for improved efficiency.

INSTALLATION: Internal pressure hoses enable direct hydraulic connection to the heating and brine circuits. The metal casing is corrosion-protected and made from galvanised, powder-coated sheet steel, with an alpine white stove enamel finish. To facilitate handling in confined spaces, it is possible to reduce the standard appliance to a width of < 800 mm for transport. In addition, there are fixing points on the standard appliance for lifting eyes.

- Brine-Water heat pump for flexible use
- High COP all year round enables low running costs
- High output levels make it suitable for use in residential and commercial buildings
- Two devices may be stacked where space is at a premium
- High reliability through robust single compressor design

Part No.	Model	Output at B0/W35 (EN 14511)	Coefficient of performance at B0/W35 (EN
233003	WPF 20	21,5 kW	4.66
233004	WPF 27	29,69 kW	4.85
233005	WPF 35	38,04 kW	4.78
233006	WPF 40	43,1 kW	4.67
233007	WPF 52	55,83 kW	4.81
233008	WPF 66	67,10 kW	4.56

Specification

Model	WPF 20	WPF 27	WPF 35	WPF 40	WPF 52	WPF 66
Energy efficiency class, heat pump W35	A^{+++}	A^{+++}	A^{+++}	A^{+++}	A^{+++}	A^{+++}
Energy efficiency class, W55 heat pump	A^{++}	A^{++}	A^{++}	A^{++}	A^{++}	A^{++}
SCOP (EN 14825)	5	5.28	5.2	5.05	5.2	4.95
Max. application limit on the heating side	60 °C	60 °C	60 °C	60 °C	60 °C	60 °C
Flow rate, heat source side	5 m³/h	7 m³/h	8,8 m³/h	10,5 m³/h	13 m³/h	16,1 m³/h
Nominal design flow rate of heating system at B0/W35 and 7 K	2.65 m³/h	3.65 m³/h	4.48 m³/h	5.3 m³/h	6.86 m³/h	8.26 m³/h
Sound power level W35 (EN 12102)	54 dB(A)	55 dB(A)	55 dB(A)	58 dB(A)	58 dB(A)	59 dB(A)
Rated compressor voltage	400 V	400 V	400 V	400 V	400 V	400 V
Height	1154 mm	1154 mm	1154 mm	1154 mm	1154 mm	1154 mm
Width	1242 mm	1242 mm	1242 mm	1242 mm	1242 mm	1242 mm
Depth	860 mm	860 mm	860 mm	860 mm	860 mm	860 mm
Weight	345 kg	367 kg	391 kg	415 kg	539 kg	655 kg

HEAT PUMPS
BRINE-WATER HEAT PUMPS

WPF

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DESIGN PLUS

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WPF 27 HT

APPLICATION: Brine-Water heat pump for indoor installation or weather-protected outdoor installation. Can be used in mono mode to provide heating and DHW. With the help of additional hydraulic components, the existing source system can be used for passive and active cooling, or even for simultaneous heating and cooling. Suitable for apartment buildings and commercial applications due to cascade compatibility with the 20-66 series. Ideal for use up to 75 °C heating flow temperature in pure heat pump mode. This makes it possible to achieve a DHW temperature in the cylinder which exceeds 60 °C without reheating. Optimised for space saving installation thanks to fact that 2 appliances can be stacked one on top of the other.

EQUIPMENT/CONVENIENCE: To minimise the transfer of structure-borne sound to the building, the refrigerant circuit is mounted on an anti-vibration base plate. In combination with the ISG (optional accessory), the heat pump controller (accessory) can be used to control the system via a home network or a mobile terminal device. With integral heat and electricity metering via refrigerant circuit data. Fault messages can be processed externally via a 230 V signal. Can be integrated into a building automation system if required using a software extension. Robust single compressor heat pump unit with scroll compressor and stainless steel plate heat exchanger. Integral safety equipment, such as high/low pressure switch and frost protection. The refrigerant circuit is hermetically sealed, tested for tightness at the factory and filled with safety refrigerant R134A.

EFFICIENCY: The heat pump unit is equipped with a scroll compressor with a soft starter and optimised heat exchangers for improved efficiency.

INSTALLATION: Internal pressure hoses enable direct hydraulic connection to the heating and brine circuits. The metal casing is corrosion-protected and made from galvanised and powder-coated sheet steel, with an Alpine white stove enamel finish. To facilitate handling in confined spaces, it is possible to reduce the standard unit to a width of 800 mm for transport. In addition, there are fixing points on the standard unit for lifting eyes.

- Brine-Water heat pump for flexible use
- Flow temperatures up to 75 °C ensure high level of DHW convenience
- High COP all year round enables low running costs
- High output levels make it suitable for use in residential and commercial buildings
- Ideal for use for DHW heating in a Brine-Water heat pump cascade
- Two devices may be stacked where space is at a premium
- High reliability through robust single compressor design

Part No.	Model	Output at B0/W35 (EN 14511)	Coefficient of performance at B0/W35 (EN
233009	WPF 27 HT	27,41 kW	4.34

Specification

Model	WPF 27 HT
Energy efficiency class, heat pump W35	A+++
Energy efficiency class, W55 heat pump	A++
SCOP (EN 14825)	4.58
Max. application limit on the heating side	75 °C
Flow rate, heat source side	6,75 m³/h
Nominal design flow rate of heating system at B0/W35 and 7 K	3.29 m³/h
Sound power level W35 (EN 12102)	60 dB(A)
Rated compressor voltage	400 V
Height	1154 mm
Width	1242 mm
Depth	860 mm
Weight	409 kg

NOTES

Heat pumps accessories

ACCESSORIES BRINE-WATER HEAT PUMPS

GWS

Groundwater module

Module with intermediate heat exchanger for the use of groundwater as a heat source. The groundwater station can be connected to all brine|water heat pumps with the exception of the large modules. The groundwater station comprises a stainless steel plate heat exchanger with 34 plates (GWS 1) or 60 plates (GWS 2), two 3-way diverter valves as shut-off valves with drain & fill valves and a duplex casing made from thermally insulating plastic.

- For the use of groundwater as a heat source
- For connection to brine|water heat pumps
- Thermally insulated casing
- High operational reliability

Part No.	Model	Height	Width	Depth	Weight
230659	GWS 1	630 mm	640 mm	230 mm	20.50 kg
230660	GWS 2	630 mm	640 mm	230 mm	26.50 kg

Details for flow rate and pressure drop of the GWS 1 and GWS 2 can be found in the specifications for the WPW sets and WPW basic sets.

WPSV

WPSV brine Manifold

Plastic flow and return distributor for the brine circuits. Every brine circuit is fitted with shut-off devices (ball valves with clamp fittings); connections at the flow and return R 1 1/4, incl. wall mounting brackets and air vent valves for each distributor.

Part No.	Model	Number of brine circuits	Ball valve with clamp fitting
232460	WPSV 25-4	4	DN 20
232461	WPSV 25-6	6	DN 20
232462	WPSV 32-4	4	DN 25
232463	WPSV 32-6	6	DN 25
232464	WPSV 40-4	4	DN 32
232465	WPSV 40-6	6	DN 32

Note: Clamp fitting DN 20 corresponds to 25 mm, as per DN 25 (32 mm) and DN 32 (40 mm)

WPSB

WPSB brine assembly

Compact assembly with wall mounting bracket for the heat source system (brine) for quick and easy installation. Incorporating an HE brine circuit pump, incl. shut-off valves, brine-resistant 25 l expansion vessel with wall mounting bracket, pressure gauge, safety valve, drain & fill valve as well as insulation shells for the HE brine circuit pump.

- Circulation pump with energy efficiency category A
- Quick and easy installation

Part No.	Model	Circulation pump type
222375	WPSB 308 E	Stratos PARA 30/1-8 E
232883	WPSB 312 E	Stratos PARA 30/1-12 E
232884	WPSB 408 E	Stratos 40/1-8 E

WPSF

Brine filling unit

Multifunction brine filling unit, including vapour diffusion-proof insulation for filling and flushing the brine circuit, for straightforward and quick installation on the heat source side. Suitable for Brine-Water heat pumps with a heating output of up to 16 kW.

- Easy installation
- All important components for the source side are factory fitted
- Microbubble separator and filter already integrated.
- Filter element easy to remove

Part No.	Model
233307	WPSF

Specification

Model	WPSF
Heat source application limit (max.)	40 °C
Response pressure, safety relief valve	0.3 MPa
Connection on the heat source side	G 1 ¼ A
Max. operating pressure	0.6 MPa

HEAT PUMPS
ACCESSORIES BRINE-WATER HEAT PUMPS

Limiter of starting current of heat pumps

The WPAB can be mounted inside the domestic fuse box to limit the starting current of the WPF (S),WPC (S) or WPL (S). The WPAB limits the starting current to the values listed in the specification.

Part No.	Model
220833	WPAB 25
232412	WPAB 32

Brine circuit pumps

Energy efficient brine circuit pump (EEI ≤ 0.23), electronic control, with vapour diffusion-proof thermal insulation.

- Suitable for Brine-Water heat pumps
- Circulation pump with energy efficiency category A
- UPF 30/1-12 E with 1500 mm connecting cable
- UPF 30/1-8 E with 1500 mm connecting cable

UPF 40/1-8 E

Part No.	Model
232532	UPF 30/1-8 E
235053	UPF 30/1-12 E
227413	UPF 40/1-8 E
227414	UPF 50/1-12 E

UPF 30/1-8 E

Specification

Model	UPF 30/1-8 E	UPF 30/1-12 E	UPF 40/1-8 E	UPF 50/1-12 E
Energy Efficiency Index EEI	0.23	0.23	0.23	0.23
Power consumption	8-130 W	16-310 W	12-310 W	25-590 W
Fitted length (gauge)	180 mm	180 mm	180 mm	180 mm
Connection	G 2	G 2	DN 40	DN 50
Head	8.00 m	12.00 m	8.00 m	11.00 m
Max. throughput	8.00 m³/h	10.00 m³/h	15.00 m³/h	29.00 m³/h
Rated voltage	230 V	230 V	230 V	230 V

DWS1 brine pressure switch

DWS1 brine pressure switch

Brine pressure switch for the ground collectors and probes in accordance with VDI 4640 for leak detection.

- Adjustable switching point: - 0.08 MPa to 0.15 MPa
- Connection thread R 1/4 (male)
- Connection to the brine assembly via the pressure hose supplied

Part No.	Model
221382	DWS1

MAG 18

Brine expansion vessel

Brine-resistant expansion vessel for the heat source side of the Brine-Water heat pump.

Part No.	Model	Expansion vessel	Inlet pressure
235218	MAG 12	12 l	0.05 MPa
235219	MAG 18	18 l	0.05 MPa
235220	MAG 25	25 l	0.05 MPa
235221	MAG 50	50 l	0.05 MPa

Can of concentrate

Heat transfer medium concentrate

Heat transfer medium for Brine-Water heat pump systems to provide frost and corrosion protection. The concentrate must be mixed with water prior to filling the heat source system. Observe the mixing ratio shown in the heat pump instructions.

Part No.	Model	Type of liquid	Liquid content
231109	MEG 10	Ethylene glycol	10 l
161696	MEG 30	Ethylene glycol	30 l

HEAT PUMP CONTROLLERS

WPM system
The WPM system is the modular control system for heat pumps. The components of the system are connected to each other via the STIEBEL ELTRON system bus and, in conjunction with the WPE, can control up to 6 heat pumps with a total of 5 heating circuits. An FET remote control with temperature and humidity sensor can be assigned to each of the 5 heating circuits. The heat pump manager (WPM) is the central control unit of the system, and is operated via a touch wheel and a graphic LCD on the integral FES2 programming unit. The WPE extension controller expands the functions of the WPM with a 6-stage cascade controller, a swimming pool controller, two additional heating circuits with mixer and a universal differential controller (e.g. to integrate a woodburning stove). WPM system components are not backward compatible with WPM 1,2,3 components.

WPM

WPM international
- Heat pump manager in a designer wall mounting enclosure
- Management of a 2-stage on/off or inverter cascade for one direct and two heating circuits with mixer
- Optimum electrical installation thanks to RAST5 connector technology
- Integral heat metering
- Cooling control function
- Control of a second heat generator
- Screed heat-up program
- DHW circulation pump management
- PWM recirculation pump management
- Incl. 3 immersion/contact sensors and 1 outside temperature sensor

Part No.	Model	Height	Width	Depth
236000	WPM international	72 mm	146 mm	96 mm

WPE

WPE
- Function extension module for the WPM
- Data link via the STIEBEL ELTRON system bus
- Optimum electrical installation thanks to RAST5 connector technology
- Operation and adjustment via programming unit in WPM
- Management of a further 4 heat pump stages
- Control of two additional heating circuits with mixer
- Swimming pool management
- Universal differential controller
- Incl. 3 immersion/contact sensors

Part No.	Model	Height	Width	Depth
234725	WPE	400 mm	310 mm	100 mm

FET

FET
- Room based remote control with thermostat function for the WPM
- Data link via the STIEBEL ELTRON system bus
- Can be used for each of the five heating circuits in the WPM system
- Illuminated graphic display
- Display of time, room temperature, relative humidity and outside temperature
- Touch wheel operation
- Room temperature and humidity measurement
- Easy adjustment of the comfort temperature
- Energy savings with selectable eco function
- Activation of DHW heating

Part No.	Model	Height	Width	Depth
234723	FET	96.00 mm	145.00 mm	31 mm

Remote control FE 7

FE 7
- WPM system compatible
- Remote control for WPM
- With room temperature sensor
- Day, setback and program operating modes

Part No.	Model	Height	Width	Depth
185579	FE 7	80.00 mm	80.00 mm	30 mm

HEAT PUMPS
HEAT PUMP CONTROLLERS

TAP PT

TAF PT 5m

- WPM system compatible
- Can be used as an immersion sensor or contact sensor
- PT 1000 sensor

Part No.	Model	Length
235995	TAF PT 5m	5 m

TAP PT

TAF PT 2m

- WPM system compatible
- Can be used as an immersion sensor or contact sensor
- PT 1000 sensor

Part No.	Model	Length
235996	TAF PT 2m	5 m

AF PT

AF PT

- WPM system compatible
- Outside temperature sensor
- PT 1000 sensor

Part No.	Model	Length
235997	AF PT	0 m

WPM-RBS

Relay box for high efficiency pumps

Generally required for heat pump systems with separate high efficiency pumps in conjunction with the WPM heat pump manager or the MSM mixer module. Wall mounting enclosure with integral relay PCB for up to six 230 V inputs and six MSR relay outputs. All inputs and outputs via encoded Rast5 plug-in connectors with screw terminal. This relay set is not required for the circulation pump series UP 25/7.5 PCV (235949) or for the WPM system.

Part No.	Model	Suitable for	Height	Width	Depth
230381	WPM-RBS	Wall mounting enclosure	211 mm	205 mm	56 mm

Remote control FE 7

FE 7

- WPM system compatible
- Remote control for WPM
- With room temperature sensor
- Day, setback and program operating modes

Part No.	Model	Height	Width	Depth
185579	FE 7	80.00 mm	80.00 mm	30 mm

FEK 2

Digital remote control

Digital remote control for the WPM II and WPM 3 enables convenient entry and display of system parameters (e.g. operating modes, outside temperature, relative humidity and heating circuit parameters). For cooling via an area heating system, install the FEK in a reference room. It measures the relative humidity and room temperature for dew point monitoring.

Part No.	Model	Height	Width	Depth
200168	FEK 2	97.00 mm	147.00 mm	33 mm

HEAT PUMPS
HEAT PUMP CONTROLLERS

Immersion sensor TF 6

Additional sensors for heat pump systems with WPM 2 and 3

Additional sensor for the heat pump system.

Part No.	Model	Length
165341	AVF 6	2 m
165342	TF 6 immersion sensor	1 m
165339	Outside temperature sensor AFS 2	

ISG web

Internet Service Gateway

Application: Ethernet gateway in wall mounted enclosure for local communication and connection to the internet. Can be connected to the heat pump manager (WPM) for compatible heat pump types and the LWZ integral units.
Operating principle: Automatic transfer of appliance data to the STIEBEL ELTRON Internet Service Portal. Data transfer requires an internet connection to be provided by the customer. Integral data interfaces for integration in smart buildings.
Operation: Controller operation via computer, notebook or tablet browser on the local ISG website.
Alternative auxiliary functions: KNX IP, Modbus TCP, EM Trend or EMI (pairing with the SMA Sunny Home Manager).

- Easy operation of the heat pump controller via a mobile website
- Local homepage for operating the heat pump in a home network
- Modbus TCP/IP software interface for integration into building automation systems
- EMI software extension enables forecast-based utilisation of PV power generated on site
- Possibility for automation with KNX IP software interface

Part No.	Model
229336	ISG web

For system and country-specific compatibility and availability, please see the information at: www.stiebel-eltron.de/iotcompatibility

SP cool

Electrical distribution bar

Electrical distribution bar for connecting heating circuit valves for changeover between heating and cooling mode. Optimised for operation with cooling via the underfloor heating system.

- 6 electro-thermal 230-V heating circuit valves can be connected
- As cascade for the connection of additional heating circuits
- For fitting on top-hat rail

Part No.	Model	Height	Width	Depth
223358	SP cool	90 mm	310 mm	65 mm

HEAT PUMPS
ACCESSORIES FOR DHW HEATING

SBBE WP (SOL)

ACCESSORIES FOR DHW HEATING

DHW cylinder SBBE 301/302 WP, SBBE 401/501 WP SOL

APPLICATION: DHW cylinder for heat pump operation, for use in detached houses, two-family houses and apartment buildings, depending on the nominal capacity and heat transfer surface area. Optional integration of solar thermal backup possible with „SOL“ types.

EQUIPMENT: Enamelled steel cylinder with directly applied foam insulation, equipped with a controlled impressed current anode for additional corrosion protection. One internal indirect coil for connecting a heat pump and another for solar connection in relation to „SOL“ types. With inspection flange inside the cylinder, can be fitted with an optional flanged immersion heater behind the front fascia. Recessed grips to facilitate handling. Equipped with temperature sensor for connection to the heat pump control unit and temperature shown on the display. Hydraulic connections arranged to the rear; can be rerouted to the top using accessory assemblies. Cylinder casing consisting of two plastic side panels and a cylinder cover finished in pure white, plus front fascia in Eloxal silver. Rectangular shaped cylinder.

EFFICIENCY: Minimal standby losses thanks to highly efficient thermal insulation. Large amounts of mixed water due to matched inlet and outlet technology.

- Minimum standby losses with energy efficiency class A (300 l) due to optimised insulation concept
- Enamelled steel with directly applied foam insulation and impressed current anode for additional corrosion protection
- Rectangular shape in line with our in-house design for system cylinders | heat pumps
- Temperature shown on the display
- Hydraulic connections arranged at the rear, alternatively at the top
- Casing can be removed during handling if required
- Recessed grips to facilitate handling
- Large delivery of domestic hot water due to matched inlet and outlet technology

Part No.	Model	Rated capacity	Height	Width	Depth
234348	SBBE 301 WP	299 l	1737 mm	786 mm	852 mm
234349	SBBE 302 WP	290 l	1737 mm	786 mm	852 mm
234350	SBBE 401 WP SOL	395 l	1972 mm	786 mm	852 mm
234351	SBBE 501 WP SOL	495 l	1972 mm	786 mm	852 mm

Specification

Model	SBBE 301 WP	SBBE 302 WP	SBBE 401 WP SOL	SBBE 501 WP SOL
Energy efficiency class	A	A	B	B
Standby energy consumption/24 h at 65 °C	1.20 kWh	1.20 kWh	1.40 kWh	1.8 kWh
Surface, indirect coil, top	3.2 m²	4.8 m²	4.0 m²	5.0 m²
Surface area, lower indirect coil			1.4 m²	1.4 m²
Flanged aperture	210 mm	210 mm	210 mm	210 mm
Height of unit when tilted	1885 mm	1885 mm	2125 mm	2125 mm
Max. recommended collector aperture area			8 m²	10 m²
Weight	206 kg	225 kg	268 kg	270 kg

The max. recommended collector aperture area relates to STIEBEL ELTRON flat-plate collectors.

HEAT PUMPS
ACCESSORIES FOR DHW HEATING

RBS 301-302

RBS 401.2-501.2

RBS 401-501

Pipe assembly RBS 301-501, 401.2-501.2

Pipe assembly RBS, thermally insulated, for use with floorstanding DHW cylinders SBBE 301 - 501 WP SOL. Available as a set for easy optional relocation of the hydraulic connections of indirect coils and the DHW connections to the top, behind the cylinder. From there, the on-site connections are made to the copper connectors. One drain valve each is included in the return connections of each indirect coil. Pipes are run through an installation rail on the cylinder to align the individual pre-assembled connection pipework.

- Optional upward relocation of hydraulic cylinder connections, behind the cylinder
- Straightforward connection technology on the cylinder using union nuts and copper connectors on site
- RBS 401.2 and RBS 501.2 must be used when connecting both indirect coils in series

Part No.	Model	Suitable for
234515	RBS 301	...E 301 WP
234516	RBS 302	...E 302 WP
234511	RBS 401	...E 401 WP SOL
234512	RBS 401.2	...E 401 WP SOL
234513	RBS 501	...E 501 WP SOL
234514	RBS 501.2	...E 501 WP SOL

Specification

Model	RBS 301	RBS 302	RBS 401	RBS 401.2	RBS 501	RBS 501.2
Heat pump connection	28 mm	28 mm	28 mm	28 mm	28 mm	28 mm
Solar connection	22 mm	22 mm	22 mm	22 mm	22 mm	22 mm
Cold water connection	22 mm	22 mm	22 mm	22 mm	22 mm	22 mm
DHW connection	22 mm	22 mm	22 mm	22 mm	22 mm	22 mm
DHW circulation connection	15 mm	15 mm	15 mm	15 mm	15 mm	15 mm

HEAT PUMPS
ACCESSORIES FOR DHW HEATING

SBB 400-1 Plus

NEW

DHW cylinder SBB 300/400/500-1 Plus

APPLICATION: DHW cylinder for heat pump operation, for use in detached houses, two-family houses and apartment buildings, depending on the nominal capacity and indirect coil surface area.

EQUIPMENT/CONVENIENCE: Enamelled steel cylinder with directly applied foam insulation in the plastic jacket, equipped with a magnesium anode for additional corrosion protection, inspection flange and connectors for assembly with an electric threaded immersion heater. One internal indirect coil for connecting a heat pump. Plug-in dial thermometer included in the standard delivery. Cylinder casing consisting of a permanently attached plastic jacket in signal white and a cylinder cover in graphite grey.

EFFICIENCY: Low standby losses and matched inlet and outlet technology for efficient operation.

- DHW cylinder for combination with heating heat pumps
- Low standby losses and matched inlet and outlet technology for efficient operation
- Heat exchanger surface areas matched to the DHW performance of the recommended heat pump types

Part No.	Model	Rated capa-	Height	Diameter incl. thermal insulation
202487	SBB 300-1 Plus	314 l	1619 mm	650 mm
202488	SBB 400-1 Plus	418 l	1799 mm	730 mm
202489	SBB 500-1 Plus	522 l	1904 mm	780 mm

Specification

Model	SBB 300-1 Plus	SBB 400-1 Plus	SBB 500-1 Plus
Energy efficiency class	B	B	B
Standby energy consumption/24 h at 65 °C	1.7 kWh	1.8 kWh	1.9 kWh
Surface, indirect coil, top	2.0 m²	2.6 m²	3.2 m²
Flanged aperture	140 mm	140 mm	140 mm
Height of unit when tilted	1750 mm	1946 mm	2063 mm
Weight	111 kg	139 kg	182 kg

HEAT PUMPS
ACCESSORIES FOR DHW HEATING

SBB 401 WP SOL

DHW cylinder SBB 301/302 WP, SBB 401/501 WP SOL

APPLICATION: DHW cylinder for heat pump operation, for use in detached and semi-detached houses and apartment buildings, depending on the nominal capacity and heat transfer surface area. Optional integration of solar thermal backup is possible with ‚SOL' types.

EQUIPMENT: Enamelled steel cylinder with directly applied foam insulation, equipped with a magnesium signal anode for additional corrosion protection. One internal indirect coil for connecting a heat pump and another for solar connection in relation to ‚SOL' types. With inspection flange inside the cylinder, can optionally be fitted with a further heat exchanger or flanged immersion heater. Temperature sensor for connection to the heat pump control unit, plug-in dial thermometer and cold water inlet pipe for all-round connection alignment included in standard delivery. Cylinder casing consisting of outer plastic jacket in pure white, plus cylinder cover and plinth trim in grey.

EFFICIENCY: Low heat losses due to highly effective thermal insulation. Large volume of mixed water due to matched inlet and outlet technology.

- Enamelled steel with directly applied foam insulation and magnesium signal anode for additional corrosion protection
- Cold water inlet pipe for all-round alignment of the connection
- Accessories such as indirect coils, flanged immersion heaters or threaded immersion heaters can be installed
- Casing can be removed during handling if required
- Large delivery of domestic hot water due to matched inlet and outlet technology

Part No.	Model	Rated capa-	Height	Diameter incl. thermal insulation
221360	SBB 301 WP	301 l	1710 mm	700 mm
221361	SBB 302 WP	290 l	1710 mm	700 mm
221362	SBB 401 WP SOL	395 l	1880 mm	750 mm
227534	SBB 501 WP SOL	495 l	1988 mm	810 mm

Specification

Model	SBB 301 WP	SBB 302 WP	SBB 401 WP SOL	SBB 501 WP SOL
Energy efficiency class	C	C	C	C
Standby energy consumption/24 h at 65 °C	2.10 kWh	2.10 kWh	2.40 kWh	2.4 kWh
Surface, indirect coil, top	3.2 m²	4.8 m²	4.0 m²	5.0 m²
Surface area, lower indirect coil			1.4 m²	1.4 m²
Flanged aperture	210 mm	210 mm	210 mm	210 mm
Height of unit when tilted	1750 mm	1750 mm	1930 mm	2035 mm
Max. recommended collector aperture area			8 m²	10 m²
Weight	156 kg	184 kg	219 kg	260 kg

The max. recommended collector aperture area relates to STIEBEL ELTRON flat-plate collectors.

WRV 32

Corrugated pipe connector, heat exchanger

Corrugated connection pipe with union nut and threaded end for optional linking of the lower and upper indirect coils.

- Suitable for DHW cylinders SBB 401/501 WP SOL

Part No.	Model	Internal diameter, corrugated pipe
232628	WRV 32	DN 32

HEAT PUMPS
ACCESSORIES FOR DHW HEATING

SB-VTI 200

NEW

DHW cylinder SB-VTI 100-500

APPLICATION: DHW cylinder for heat pump operation, for use in detached and two-family houses, depending on nominal capacity and heat transfer surface area.

EQUIPMENT: Enamelled steel cylinder with directly applied foam insulation and sheet metal jacket, equipped with inspection flange and a protective magnesium anode for additional corrosion protection. One internal indirect coil for connecting a heat pump. Plug-in dial thermometer included in the standard delivery.

- Special heat exchanger for heat pump operation
- Insulated with directly applied foam in the form of a sheet metal jacket
- Protective anode for corrosion protection as standard

Part No.	Model	Rated capa-	Height	Diameter incl. thermal insulation
200156	SB-VTI 100	113 l	1022 mm	550 mm
200157	SB-VTI 150	147 l	1262 mm	550 mm
200158	SB-VTI 200	192 l	1574 mm	550 mm
200159	SB-VTI 300	295 l	1552 mm	650 mm
200160	SB-VTI 400	412 l	1543 mm	750 mm
200161	SB-VTI 500	496 l	1813 mm	750 mm

Specification

Model	SB-VTI 100	SB-VTI 150	SB-VTI 200	SB-VTI 300	SB-VTI 400	SB-VTI 500
Energy efficiency class	B	C	C	C	C	C
Standby energy consumption/24 h at 65 °C	1.1 kWh	1.4 kWh	1.5 kWh	2.2 kWh	2.5 kWh	2.7 kWh
Surface, indirect coil, top	1 m²	1.1 m²	1.3 m²	1.5 m²	1.9 m²	2.3 m²
Flanged aperture	180 mm	180 mm	180 mm	180 mm	180 mm	180 mm
Height of unit when tilted	1180 mm	1400 mm	1700 mm	1730 mm	1700 mm	1970 mm
Weight	66 kg	81 kg	96 kg	126 kg	188 kg	213 kg

SB-VTH 150

NEW

DHW cylinder SB-VTH 100/120/150

APPLICATION: DHW cylinder for indirect heating of DHW in heating systems and supply of DHW to multiple draw-off points in detached houses.

EQUIPMENT: Enamelled steel cylinder with directly applied foam insulation and sheet metal jacket, equipped with an inspection flange, a protective magnesium anode for additional corrosion protection and an internal indirect coil for connection of a heat generator. The cylinder thermostat signals a heat demand when the temperature falls below the selected set temperature. Plug-in dial thermometer included in the standard delivery.

- Hydraulic connections on the top of the appliance
- Insulated with directly applied foam in the form of a sheet metal jacket
- Protective anode for corrosion protection as standard
- Adjustable feet for levelling on uneven floors

Part No.	Model	Rated capa-	Height	Diameter incl. thermal insulation
200153	SB-VTH 100	94 l	938 mm	550 mm
200154	SB-VTH 120	115 l	1067 mm	550 mm
200155	SB-VTH 150	150 l	1307 mm	550 mm

Specification

Model	SB-VTH 100	SB-VTH 120	SB-VTH 150
Energy efficiency class	B	C	C
Standby energy consumption/24 h at 65 °C	1.1 kWh	1.3 kWh	1.5 kWh
Surface, indirect coil, top	1.0 m²	1.0 m²	1.0 m²
Temperature adjustment	10-80 °C	10-80 °C	10-80 °C
IP-Rating	IP24	IP24	IP24
Weight	58 kg	65 kg	76 kg

HEAT PUMPS
ACCESSORIES FOR DHW HEATING

HSBC 300 (L) cool

HSBC 300 cool integral cylinder

APPLICATION: Integral cylinder for heat pump operation for DHW heating, also for simultaneous integration into heating systems for hydraulic connection and for propulsion and separation of the heat pump and heating circuit flow. Designed for use in detached houses for heating and cooling.

EQUIPMENT/CONVENIENCE: DHW cylinder, enamelled steel with directly applied foam insulation, equipped with internal indirect coil and magnesium signal anode for additional corrosion protection. Buffer cylinder, steel with directly applied foam insulation. Separable cylinders arranged one above the other, with recessed grips to facilitate handling. Hydraulic connections on the heating side routed upwards; on the DHW side towards the back. Equipped with cylinder charging pump, heating circuit pump and 3/2-way diverter valve. Hydraulic working parts are thermally insulated before the cylinder foam insulation is applied and are arranged behind the front panel. Prepared for optional extension with a heating circuit with mixer. Cylinder casing consisting of plastic jacket in pure white (permanently attached at the sides and rear), removable front panel made from sheet metal in white.

EFFICIENCY: Low standby losses due to high grade thermal insulation.

- DHW cylinder and buffer cylinder in a single appliance for space saving installation
- Hydraulic connection between heat pump module and DHW cylinder and heating circuit
- DHW connections to be made towards the back, or alternatively to the top
- High level of integration – Minimal installation effort
- Equipment matched to recommended heat pump types
- High efficiency thanks to highly effective thermal insulation
- Suitable for cooling via fan convectors (7 °C/12 °C)

Part No.	Model	Nominal capacity, DHW cylinder	Nominal capacity, buffer cylinder	Height	Width	Depth
236686	HSBC 300 cool	270 l	100 l	1918 mm	680 mm	910 mm

Specification

Model	HSBC 300 cool
Energy efficiency class	B
Standby energy consumption/24 h at 65 °C	1.50 kWh
Surface, indirect coil	3.3 m²
Heat pump connection	28 mm
Heating circuit connection	22 mm
Cold water connection	G 1 A
DHW connection	G 1 A
DHW circulation connection	G ½ A
Height of unit when tilted	2123 mm
Weight	250 kg
Suitable for	WPL 15/20/25 AC(S), WPL 19/24 I

HEAT PUMPS
ACCESSORIES FOR DHW HEATING

HSBC 300 (L) cool

HSBC 300 L cool integral cylinder

APPLICATION: Integral cylinder for heat pump operation for DHW heating, also for simultaneous integration into heating systems for hydraulic connection and for propulsion and separation of the heat pump and heating circuit flow. Designed for use in detached houses for heating and cooling.

EQUIPMENT/CONVENIENCE: DHW cylinder, enamelled steel with directly applied foam insulation, equipped with internal indirect coil and magnesium signal anode for additional corrosion protection. Buffer cylinder, steel with directly applied foam insulation. Separable cylinders arranged one above the other, with recessed grips to facilitate handling. Hydraulic connections on the heating side routed upwards; on the DHW side towards the back. Equipped with heating circuit pump and 3/2-way diverter valve. Connection adaptors provided for joining/separating the flow and return, depending on the heat pump type. Hydraulic working parts are thermally insulated before the cylinder foam insulation is applied and are arranged behind the front panel. Prepared for optional extension with a heating circuit with mixer. Cylinder casing consisting of plastic jacket in pure white (permanently attached at the sides and rear), removable front panel made from sheet metal in white.

EFFICIENCY: Low standby losses due to high grade thermal insulation.

- DHW cylinder and buffer cylinder in a single appliance for space saving installation
- Hydraulic connection between heat pump module and DHW cylinder and heating circuit
- DHW connections to be made towards the back, or alternatively to the top
- High level of integration – Minimal installation effort
- Not equipped with a cylinder charging pump; matched to recommended heat pump types
- High efficiency thanks to highly effective thermal insulation
- Suitable for cooling via fan convectors (7 °C/12 °C)

Part No.	Model	Nominal capacity, DHW cylinder	Nominal capacity, buffer cylinder	Height	Width	Depth
238826	HSBC 300 L cool	270 l	100 l	1918 mm	680 mm	910 mm

Specification

Model	HSBC 300 L cool
Energy efficiency class	B
Standby energy consumption/24 h at 65 °C	1.5 kWh
Surface, indirect coil	3.3 m²
Heat pump connection	28 mm
Heating circuit connection	22 mm
Cold water connection	G 1 A
DHW connection	G 1 A
DHW circulation connection	G ½ A
Height of unit when tilted	2123 mm
Weight	248 kg
Suitable for	WPL 07/09/13/17 ICS/IKCS classic, WPL 19/24 IK, WPF 04/05/07/10 (cool)

RBS-SBC

Pipe assembly for HSBC 300 (L) cool integral cylinder

Insulated pipe assembly, for use with 300 integral cylinders. As a set for optional, simple upward routing of the DHW connections downstream of the cylinder. From there, the on-site connections are made to the copper connectors. Pipes are run through an installation rail (to be mounted on the integral cylinder) to align the individual pre-assembled connection lines.

- Optional relocation of the DHW connections to the top, behind the cylinder
- Straightforward connection technology on the cylinder using union nuts and copper connectors on site

Part No.	Model	Suitable for
238827	RBS-SBC	...SBC 300 cool / plus and 300 L cool / plus

Specification

Model	RBS-SBC
Cold water connection	22 mm
DHW connection	22 mm
DHW circulation connection	12 mm

HEAT PUMPS
ACCESSORIES FOR DHW HEATING

HSBC 200

Integral cylinder HSBC 200

APPLICATION: Integral cylinder for heat pump operation for DHW heating, also for simultaneous integration into heating systems for hydraulic connection and for propulsion and separation of the heat pump and heating circuit flow. For use in detached houses.

EQUIPMENT/CONVENIENCE: DHW cylinder, enamelled steel with directly applied foam insulation, equipped with internal indirect coil and magnesium signal anode for additional corrosion protection. Buffer cylinder, steel with directly applied foam insulation. Separable cylinders arranged one above the other, with recessed grips to facilitate handling. Hydraulic connections at the top. Equipped with WPM 3 heat pump manager with backlit symbol and plain text display, cylinder charging pump, heating circuit pump, 3/2-way diverter valve, safety valve with drain routed out of the rear of the appliance and electric emergency/booster heater. Prepared for optional extension with a heating circuit with mixer. Cylinder casing consisting of plastic jacket in pure white (permanently attached at the sides and rear), removable front panel made from sheet metal in white with designer fascia in Eloxal silver.

EFFICIENCY: Low standby losses and cylinder capacity sized to suit the application.

- DHW cylinder and buffer cylinder in a single appliance for space saving installation
- Hydraulic connection between heat pump module and DHW cylinder and heating circuit
- High level of integration – Minimal installation effort
- Equipment matched to recommended heat pump types
- Integral heat pump manager WPM
- Suitable for cooling via area heating system (18 °C / 23 °C)

Part No.	Model	Nominal capacity, DHW cylinder	Nominal capacity, buffer cylinder	Height	Width	Depth
233510	HSBC 200	168 l	100 l	1908 mm	680 mm	871 mm
234801	HSBC 200 S	168 l	100 l	1908 mm	680 mm	871 mm

Specification

Model	HSBC 200	HSBC 200 S
Energy efficiency class	B	B
Standby energy consumption/24 h at 65 °C	1.3 kWh	1.30 kWh
Surface, indirect coil	3.3 m²	3.3 m²
Rated control voltage	230 V	230 V
Rated voltage, emergency/booster heater	400 V	230 V
Power consumption, emergency/booster heater	8.8 kW	5.90 kW
Heat pump connection	28 mm	28 mm
Heating circuit connection	22 mm	22 mm
Cold water connection	22 mm	22 mm
DHW connection	22 mm	22 mm
DHW circulation connection	12 mm	12 mm
Height of unit when tilted	2107 mm	2107 mm
Weight	203 kg	203 kg
Suitable for	WPL 19/24 I, WPL 15/20/25 AC(S), WPL 07/09/13/17 ACS classic, WPL 33 HT(S)	WPL 19/24, WPL 15/20/25 AC(S), WPL classic, WPL 33 HT(S), HPA-O Premium, HPA-O plus

HEAT PUMPS
ACCESSORIES FOR DHW HEATING

HSBC 200 L

HSBC 200 L integral cylinder

APPLICATION: Integral cylinder for heat pump operation for DHW heating, also for simultaneous integration into heating systems for hydraulic connection and for propulsion and separation of the heat pump and heating circuit flow. For use in detached houses.

EQUIPMENT/CONVENIENCE: DHW cylinder, enamelled steel with directly applied foam insulation, equipped with internal indirect coil and magnesium anode for additional corrosion protection. Buffer cylinder, steel with directly applied foam insulation. Separable cylinders arranged one above the other, with recessed grips to facilitate handling. Hydraulic connections at the top; cold water and DHW circulation at the back. Equipment with heating circuit pump. Prepared for optional extension with a heating circuit with mixer. Cylinder casing consisting of plastic jacket in pure white (permanently attached at the sides and rear) and removable front panel made from sheet metal in white.

EFFICIENCY: Low standby losses and cylinder capacity sized to suit the application.

- DHW cylinder and buffer cylinder in a single appliance for space saving installation
- Hydraulic connection between heat pump module and DHW cylinder and heating circuit
- High level of integration – Minimal installation effort
- Equipment matched to recommended heat pump types
- Suitable for cooling via area heating system (18 °C / 23 °C)

Part No.	Model	Nominal capacity, DHW cylinder	Nominal capacity, buffer cylinder	Height	Width	Depth
236684	HSBC 200 L	180 l	100 l	1908 mm	680 mm	800 mm

Specification

Model	HSBC 200 L
Energy efficiency class	B
Standby energy consumption/24 h at 65 °C	1.30 kWh
Surface, indirect coil	1.6 m²
Rated voltage	230 V
Heat pump connection	22 mm
Heating circuit connection	22 mm
Cold water connection	G 1 A
DHW connection	22 mm
DHW circulation connection	G ½ A
Height of unit when tilted	2107 mm
Weight	185 kg
Suitable for	WPL 09/17 ICS/IKCS classic

HSBC-HKM

HSBC 3 -HKM

Mixer circuit pump assembly for integral cylinder

Mixer circuit pump assembly for integral cylinder as a set for extending a heating circuit with mixer. The assembly comprises insulated connection pipework, the heating circuit pump and 3-way mixer with servomotor. It is intended for use inside the integral cylinder using the prepared connections.

- Optional extension with a heating circuit with mixer
- Straightforward installation of the prefitted set in the integral cylinder
- Hydraulic connections at the top towards the front

Part No.	Model	Suitable for	Heating circuit connection
238825	HSBC 3-HKM	...SBC 300 cool / plus and 300 L cool / plus	22 mm
234648	HSBC-HKM	...SBC 200 and 200 L / eco	22 mm

HEAT PUMPS
ACCESSORIES FOR DHW HEATING

HSBB 200

Cylinder and hydraulic module HSBB 200

APPLICATION: Cylinder and hydraulic module for heat pump operation as a set including a WPL classic heating heat pump for DHW heating and simultaneous integration into heating systems, for hydraulic connection and delivery of the heat pump/heating circuit flow. For use in detached houses.

EQUIPMENT/CONVENIENCE: DHW cylinder, enamelled steel with directly applied foam insulation, equipped with internal indirect coil and magnesium anode for additional corrosion protection. Hydraulic connections at the top or rear of the appliance (cold water and DHW circulation). Equipped with WPM heat pump manager with backlit symbol and plain text display, circulation pump, 3/2-way diverter valve, 12 litre expansion vessel for the heating system, safety valve with drain connector routed out of the rear of the appliance and electric emergency/booster heater. Cylinder casing consisting of plastic jacket in pure white (permanently attached at the sides and rear), removable cover in telegrey and removable front panel made of sheet metal in white.

EFFICIENCY: Low standby losses due to high grade thermal insulation as well as an optimised cylinder capacity and a heat transfer area appropriate to the application.

- Compact DHW cylinder with integral hydraulic components for connection to heat pump and heating circuit
- High level of integration – Minimal installation effort
- Integral heat pump manager WPM
- Integral heating expansion vessel
- Little space is required
- Suitable for cooling via area heating system (18 °C / 23 °C)

Part No.	Model
235197	HSBB 200 S

Specification

Model	HSBB 200 S
Energy efficiency class	B
Standby energy consumption/24 h at 65 °C	1.30 kWh
Nominal capacity, DHW cylinder	181 l
Surface, indirect coil	1.6 m²
Rated control voltage	230 V
Rated voltage, emergency/booster heater	230 V
Power consumption, emergency/booster heater	5.90 kW
Heat pump connection	22 mm
Heating circuit connection	22 mm
Cold water connection	G 1 A
DHW connection	22 mm
DHW circulation connection	G ½ A
Height	1328 mm
Width	694 mm
Depth	875 mm
Height of unit when tilted	1483 mm
Weight	150 kg
Suitable for	

HEAT PUMPS
ACCESSORIES FOR DHW HEATING

SBB 1001 SOL

DHW cylinder SBB 751/1001, SBB 751/1001 SOL

APPLICATION: DHW cylinder for high output heat pumps for use in apartment buildings and commercial buildings. Intended for use in combination with a charging station as an accessory for DHW heating outside of the cylinder and subsequent storage. Optional integration of solar thermal backup possible with ... SOL types.
EQUIPMENT: Enamelled steel cylinder, equipped with a signal anode for additional corrosion protection. A radial DHW inlet optimises stratification in the cylinder. Inspection flanges sealed with blank flanges can also be fitted with additional indirect coils or flanged immersion heaters. The ... SOL types are equipped with an internal smooth tube indirect solar coil.
EFFICIENCY: Low standby losses in combination with the high grade EPTS rigid foam thermal insulation as an accessory. Matched inlet and outlet technology for good temperature stratification.

- Protective anode for corrosion protection as standard
- DHW heating in heat pump mode via charging station WTS 30/40 E (accessory)

Part No.	Model	Rated capa-	Height	Diameter incl. thermal insulation
229292	SBB 751	763 l	1777 mm	1010 mm
229294	SBB 751 SOL	736 l	1777 mm	1010 mm
229293	SBB 1001	1004 l	2277 mm	1010 mm
229295	SBB 1001 SOL	971 l	2277 mm	1010 mm

Specification

Model	SBB 751	SBB 751 SOL	SBB 1001	SBB 1001 SOL
DHW connection	G 2 A	G 2 A	G 2 A	G 2 A
Cold water connection	G 1 A	G 2 A	G 2 A	G 2 A
Charging station connection	G 2 A	G 2 A	G 2 A	G 2 A
Heat exchanger connection		G 1 A		G 1 A
Surface, indirect coil		3 m²		3.9 m²
Flanged aperture	280 mm	280 mm	280 mm	280 mm
Height of unit when tilted	1840 mm	1840 mm	2335 mm	2335 mm
Max. recommended collector aperture area		15 m²		20 m²
Weight	210 kg	242 kg	267 kg	296 kg

The max. recommended collector aperture area relates to STIEBEL ELTRON flat-plate collectors.

WDH 1001 SBB

Thermal insulation WDH 751/1001 SBB

High grade EPTS rigid foam thermal insulation with insulation cover and floor disc for floorstanding DHW cylinders SBB 751/1001 and SBB 751/1001 SOL. Graphite inserts in the EPTS and fleece for lowest heat losses. Wedge-shaped cut-outs and fleece layer ensure an optimum match to the cylinder. Prepared adhesive joint in the wedge-shaped cut-outs enables adjustment to the shape prior to installation. External plastic jacket in white; cover in basalt grey. Thermal insulation secured with a quick-release hook strip.

- Composite thermal insulation made from rigid foam and fleece
- Best insulation properties through graphite inclusions
- Prepared to be shaped into a semi-shell

Part No.	Model	Standby energy consumption/24 h at 65 °C	Insulation for	Height	Thickness
231923	WDH 751 SBB	2.9 kWh	SBB 751 and 751 SOL	1840 mm	110 mm
231924	WDH 1001 SBB	3.5 kWh	SBB 1001 and 1001 SOL	2350 mm	110 mm

HEAT PUMPS
ACCESSORIES FOR DHW HEATING

WTS E

Charging stations WTS 30/40 E

DHW heating by means of a charging station with plate heat exchanger for heating the floorstanding cylinder without integral indirect coil. Equipped on the primary side for heat pump heating with an HE pump and on the secondary side for cylinder heating with a circulation pump. Additionally equipped with shut-off devices, non-return valves and safety valve, all inside a thermally insulated casing. Prefitted on mounting frame for wall mounting.

Part No.	Model	Height	Width	Depth
232907	WTS 30 E	860 mm	500 mm	290 mm
232908	WTS 40 E	1090 mm	520 mm	305 mm

SBB 600 WP SOL

DHW cylinder SBB 600/800/1000 WP SOL

APPLICATION: DHW cylinder for high output heat pumps for use in two-family houses, apartment buildings and commercial buildings. Optional integration of solar thermal backup.

EQUIPMENT: Enamelled steel cylinder, equipped with a signal anode for additional corrosion protection. Features two internal twin pipe indirect coils; the lower indirect coil connects to the solar thermal system whilst the upper coil connects to the heat pump. For heat pumps with a higher output, the two indirect coils can be connected in series. Inspection flanges sealed with blank flanges can also be fitted with additional indirect coils or flanged immersion heaters.

EFFICIENCY: Low standby losses in combination with the high grade EPTS rigid foam thermal insulation as an accessory. Matched inlet and outlet technology for good temperature stratification.

- Matched to DHW heating with high heat pump output
- Large transfer area through two integral twin pipe heat exchangers
- Protective anode for corrosion protection as standard

SBB 800-1000 WP SOL

Part No.	Model	Rated capa-	Height	Diameter incl. thermal insulation
235906	SBB 600 WP SOL	575 l	1775 mm	970 mm
235907	SBB 800 WP SOL	770 l	1943 mm	1010 mm
235908	SBB 1000 WP SOL	835 l	2153 mm	1010 mm

Specification

Model	SBB 600 WP SOL	SBB 800 WP SOL	SBB 1000 WP SOL
DHW connection	G 1 ¼ A	G 2 A	G 2 A
Cold water connection	G 1 ¼ A	G 2 A	G 2 A
Heat exchanger connection	G 1 ½ A	G 1 ½ A	G 1 ½ A
Surface, indirect coil, top	5.70 m²	6.20 m²	6.20 m²
Surface area, lower indirect coil	2.00 m²	2.60 m²	3.60 m²
Flanged aperture	280 mm	280 mm	280 mm
Height of unit when tilted	1813 mm	1990 mm	2185 mm
Max. recommended collector aperture area	12 m²	14 m²	17 m²
Weight	256 kg	302 kg	321 kg

The max. recommended collector aperture area relates to STIEBEL ELTRON flat-plate collectors.

HEAT PUMPS
ACCESSORIES FOR DHW HEATING

WDH 800-1000 SBB

Thermal insulation WDH 600/800/1000 SBB

High grade EPTS rigid foam thermal insulation with insulation cover and floor disc for floorstanding DHW cylinders SBB 600/800/1000 WP SOL. Graphite inserts in the EPTS and fleece ensure lowest heat losses. Wedge-shaped cut-outs and fleece layer ensure an optimum match to the cylinder. Prepared adhesive joint in the wedge-shaped cut-outs enables adjustment to the shape prior to installation. External plastic jacket in white; cover in basalt grey. Thermal insulation secured with a quick-release hook strip.

- Composite thermal insulation made from rigid foam and fleece
- Best insulation properties through graphite inclusions
- Prepared to be shaped into a semi-shell

Part No.	Model	Standby energy consumption/24 h at 65 °C	Insulation for	Height	Thickness
235909	WDH 600 SBB	2.7 kWh	SBB 600 WP SOL	1803 mm	110 mm
235910	WDH 800 SBB	3.0 kWh	SBB 800 WP SOL	2065 mm	110 mm
235911	WDH 1000 SBB	3.4 kWh	SBB 1000 WP SOL	2275 mm	110 mm

WRV 40

Corrugated pipe connector, heat exchanger

Corrugated connection pipe with union nut and threaded end for optional linking of the lower and upper indirect coils.

- Suitable for DHW cylinders SBB 600/800/1000 WP SOL

Part No.	Model	Internal diameter, corrugated pipe
232629	WRV 40	DN 40

HEAT PUMPS
ACCESSORIES FOR DHW HEATING

SBS 801 W SOL

Instantaneous water cylinders SBS 601/801/1001/1501 W and SBS 601/801/1001/1501 W SOL

APPLICATION: Instantaneous water cylinder for combined use to provide DHW heating, as a buffer cylinder for hydraulic separation of the liquid flowing in the heat pump and heating circuit, and to store heating energy. For use in detached and two-family houses and apartment buildings with hydraulically interconnected cylinders. Optional integration of solar thermal backup possible with ... SOL types.

EQUIPMENT: Steel cylinder with an integral stainless steel corrugated pipe indirect coil for instantaneous DHW heating. Connectors at the front enable several system-specific hydraulic circuits. Temperature stratification is supported by the Protemp-Flow inlets integrated in the cylinder. A threaded immersion heater can be optionally built in via the inspection connector. Optional integration of solar thermal backup possible with ... SOL types.

EFFICIENCY: Low standby losses in combination with the high grade EPTS rigid foam thermal insulation as an accessory. Matched inlet and outlet technology for good temperature stratification and a reduction in flow turbulence of up to 60 %.

- Only one cylinder to serve for DHW heating and as heating buffer cylinder
- Inlet device for zoned heating and discharging
- Hydraulic separation between the solar, heating and DHW zones
- Hygienic DHW heating through instantaneous water heater principle
- SOL types with integral solar indirect coil
- 3 thermometers are part of the standard delivery
- Heat pump operation, can be combined with additional heat source and threaded immersion heater (BGC)

Part No.	Model	Rated capa-	Height	Diameter incl. thermal insulation
229980	SBS 601 W	613 l	1665 mm	970 mm
229984	SBS 601 W SOL	599 l	1665 mm	970 mm
229981	SBS 801 W	759 l	1830 mm	1010 mm
229985	SBS 801 W SOL	740 l	1830 mm	1010 mm
229982	SBS 1001 W	941 l	2240 mm	1010 mm
229986	SBS 1001 W SOL	916 l	2240 mm	1010 mm
229983	SBS 1501 W	1430 l	2155 mm	1220 mm
229987	SBS 1501 W SOL	1399 l	2155 mm	1220 mm

Specification

Model	SBS 601 W	SBS 601 W SOL	SBS 801 W	SBS 801 W SOL	SBS 1001 W	SBS 1001 W SOL	SBS 1501 W	SBS 1501 W SOL
Cold water inlet	G 1 ¼ A	G 1 ¼ A	G 1 ¼ A	G 1 ¼ A	G 1 ¼ A	G 1 ¼ A	G 1 ¼ A	G 1 ¼ A
DHW outlet	G 1 ¼ A	G 1 ¼ A	G 1 ¼ A	G 1 ¼ A	G 1 ¼ A	G 1 ¼ A	G 1 ¼ A	G 1 ¼ A
Heat pump connection	G 1 ½ A	G 1 ½ A	G 1 ½ A	G 1 ½ A	G 1 ½ A	G 1 ½ A	G 2 A	G 2 A
Heating flow/return connection	G 1 ½ A	G 1 ½ A	G 1 ½ A	G 1 ½ A	G 1 ½ A	G 1 ½ A	G 2 A	G 2 A
Solar flow		G 1		G 1		G 1		G 1
Solar return		G 1		G 1		G 1		G 1
Surface area, DHW indirect coil	6.00 m²	6.00 m²	6.50 m²	6.50 m²	8.70 m²	8.70 m²	10.00 m²	10.00 m²
Surface area, lower indirect coil		1.50 m²		2.40 m²		3.20 m²		3.70 m²
Height of unit when tilted	1840 mm	1840 mm	1880 mm	1880 mm	2285 mm	2285 mm	2225 mm	2225 mm
Max. recommended collector aperture area		12 m²		16 m²		20 m²		30 m²
Weight	135 kg	180 kg	150 kg	195 kg	175 kg	220 kg	236 kg	291 kg

The max. recommended collector aperture area relates to STIEBEL ELTRON flat-plate collectors.

HEAT PUMPS
ACCESSORIES FOR DHW HEATING

WDH 801 SBS

Thermal insulation WDH 601/801/1001/1501 SBS

High grade EPTS rigid foam thermal insulation with insulation cover and floor disc for SBS 601-1001 W and W SOL instantaneous water cylinders. Graphite inserts in the EPTS and fleece for lowest heat losses. Wedge-shaped cut-outs and fleece layer ensure an optimum match to the cylinder. Prepared adhesive joint in the wedge-shaped cut-outs enables adjustment to the shape prior to installation. External plastic jacket in white; cover in basalt grey. Thermal insulation secured with a quick-release hook strip.

- Composite thermal insulation made from rigid foam and fleece
- Best insulation properties through graphite inclusions
- Prepared to be shaped into a semi-shell

Part No.	Model	Standby energy consumption/24 h at 65 °C	Insulation for	Height	Thickness
231925	WDH 601 SBS	2.6 kWh	SBS 601 W, W SOL	1775 mm	110 mm
231926	WDH 801 SBS	2.9 kWh	SBS 801 W, W SOL	1940 mm	110 mm
231927	WDH 1001 SBS	3.5 kWh	SBS 1001 W, W SOL	2350 mm	110 mm
231928	WDH 1501 SBS	4.1 kWh	SBS 1501 W, W SOL	2265 mm	110 mm

UBS-VL UBS-RL

Diverter valve assembly

Insulated pipe assemblies, each with diverter valve for the single flow and return connection of a heat pump with zoned charging of the 601, 801, 1001 W and W SOL instantaneous water cylinders. Cylinder-specific adjustments are made by trimming the pipe sections. The assemblies are installed upstream of the cylinder using union nuts. Any orientation of the heat pump connection at the side is possible.

- Consisting of an insulated pipe section and diverter valve

Part No.	Model	Application	Suitable for	Connection	Heat pump connection
238489	UBS-VL	heat pump connection flow	... 601-1001 W/ W SOL	G 1 ½	42 mm
238490	UBS-RL	heat pump connection return	... 601-1001 W/ W SOL	G 1 ½	42 mm

ZW 1 ¼

DHW circulation set

- DHW circulation set for SBS 601-1501 W and W SOL instantaneous water cylinders
- Comprising a gunmetal tee and inserted stainless steel corrugated pipe
- Connection for DHW circulation R ½, connection for DHW Rp 1 ¼

Part No.	Model
230312	ZW 1 ¼

UPZ

DHW circulation pump

Highly efficient DHW circulation pump with automatic ventilation mode and insulation shell, for use in detached houses and apartment buildings. The DHW circulation pump can be controlled via electronic control thermostat and/or time switch. The rotary selector can be used to select a temperature at which the pump will automatically switch off. This allows the pump run time and the electric energy demand for DHW provision to be reduced to a minimum.

- Highly efficient DHW circulation pump
- Control thermostat adjustable from 20 °C–70 °C
- LED operating and fault display
- Maintenance-free, highly efficient spherical motor
- Max. power consumption 9 W
- Connection fittings and non-return valve supplied

Part No.	Model	Connection
233719	UPZ	G ½

UP 25-60 B

Bronze DHW circulation pump

Drinking water-approved circulation pump for heating an external DHW cylinder.

Part No.	Model
056899	UP 25-60 B

HEAT PUMPS
ACCESSORIES FOR DHW HEATING

Inlet pipes
Inlet connector for freestanding cylinder to heat up an external DHW cylinder.

Part No.	Model
072997	Inlet pipe 200/500 l
072998	Inlet pipe 600/1000 l

WT

Plate-type heat exchanger
The plate heat exchanger comprises several hard-soldered stainless steel plates with thermal insulation, and is designed for DHW heating or swimming pool heating. For swimming pool heating, please observe application limits.

Part No.	Model	Height	Width	Depth
070633	WT 10	313 mm	113 mm	99.6 mm
070634	WT 20	313 mm	113 mm	136.5 mm
071091	WT 30	313 mm	113 mm	173.5 mm
229338	WT 40	313 mm	113 mm	219.7 mm

Specification

Model	WT 10	WT 20	WT 30	WT 40
Primary temperature	55 > 45 °C	55 > 45 °C	55 > 45 °C	55 > 45 °C
Secondary temperature	35 < 30 °C	35 < 30 °C	35 < 30 °C	35 < 30 °C
Pressure drop, primary	70 hPa	100 hPa	90 hPa	120 hPa
Pressure drop, secondary	50 hPa	70 hPa	60 hPa	200 hPa
Primary flow rate	1.1 m³/h	2.3 m³/h	3.2 m³/h	6 m³/h
Secondary flow rate	0.9 m³/h	1.9 m³/h	2.5 m³/h	4.8 m³/h
Output	15 kW	30 kW	40 kW	50 kW
Weight	4.4 kg	6.2 kg	8.0 kg	10.2 kg
Connection	G 1	G 1	G 1	G 1 / G 1 1/4
Liquid content	0.9 l	1.7 l	2.5 l	4.0 l

HEATING HYDRAULIC ACCESSORIES

SBP 100 classic

Buffer cylinder SBP 100 classic
APPLICATION: Buffer cylinder for hydraulic separation of the liquid flowing in the heat pumps and heating/cooling circuit.
EQUIPMENT: The steel cylinder with directly applied foam insulation is equipped with a protective cover and connections for venting and draining. The hydraulic connections are at the top.
EFFICIENCY: Low standby losses due to efficient thermal insulation. Matched inlet and outlet technology to reduce mixing.

Part No.	Model	Rated capa-	Height	Diameter
235200	SBP 100 classic	100 l	877 mm	510 mm

Specification

Model	SBP 100 classic
Energy efficiency class	C
Standby energy consumption/24 h at 65 °C	1.20 kWh
Heat pump connection	G 1 1/4 A
Heating connection	G 1 1/4 A
Weight	21 kg

SBP 200 E

Buffer cylinder SBP 200/400/700 E
APPLICATION: Buffer cylinders for heat pump heating systems; also suitable for cooling mode. They enable hydraulic separation of the liquid flowing in the heat pump and heating circuit, to extend heat pump runtimes and store heating energy. For use in detached and two-family houses, depending on nominal capacity. Optional integration of solar thermal backup is possible with „SOL“ types.
EQUIPMENT: Steel cylinder with directly applied foam insulation, hydraulic connections arranged at the front one above the other, plus connectors for optional fitting of threaded immersion heaters. With „SOL“ types, one internal indirect coil for solar connection. Cylinder casing consisting of outer plastic jacket in pure white, plus cylinder cover and plinth trim in grey.
EFFICIENCY: Low standby losses due to highly effective thermal insulation. Designed for connecting heat pumps with high flow rates on the primary side.

- Suitable for cooling due to diffusion-proof complete foam application, therefore can be used for heating and cooling
- Low standby losses thanks to highly effective thermal insulation
- Steel cylinder with directly applied foam insulation
- Accessories such as threaded immersion heaters can be installed
- Casing can be removed during handling if required

Part No.	Model	Rated capa-	Height	Diameter incl. thermal insulation
185458	SBP 200 E	207 l	1535 mm	630 mm
220824	SBP 400 E	415 l	1710 mm	750 mm
185459	SBP 700 E	720 l	1890 mm	910 mm
185460	SBP 700 E SOL	703 l	1890 mm	910 mm

Specification

Model	SBP 200 E	SBP 400 E	SBP 700 E	SBP 700 E SOL
Energy efficiency class	B	B		
Standby energy consumption/24 h at 65 °C	1.10 kWh	1.60 kWh	2.2 kWh	2.2 kWh
Connection	4 x G2 A	4 x G2 A	4 x G2 A	4 x G2 A
Heat exchanger connection				G 1
Surface, indirect coil				2 m²
Height of unit when tilted	1650 mm	1800 mm	2000 mm	2000 mm
Max. recommended collector aperture area				14 m²
Weight	58 kg	81 kg	185 kg	216 kg

The max. recommended collector aperture area relates to STIEBEL ELTRON flat-plate collectors.

SBPE 400

Buffer cylinder SBPE 400

APPLICATION: Buffer cylinder for heat pump heating systems, also suitable for cooling mode. They serve for hydraulic separation of the heat pump flow and the heating/cooling circuit flow, for extending heat pump runtimes and for storing heating energy. For use in detached houses.

EQUIPMENT: Steel cylinder with directly applied foam insulation, hydraulic connections arranged at the rear. Rectangular shaped cylinder with diffusion-proof foam. Recessed grips to support handling. Can optionally be fitted with a threaded immersion heater behind the front fascia. Cylinder casing consisting of two plastic side panels and a cylinder cover finished in pure white, plus front fascia in Eloxal silver.

EFFICIENCY: Extremely low heat losses thanks to highly effective diffusion-proof thermal insulation. Designed for connecting heat pumps with high flow rates on the primary side.

- Minimum standby losses with energy efficiency class A due to optimised insulation concept
- Can be used for both heating and cooling mode due to steel cylinder with completely diffusion-proof foam insulation
- Rectangular shape in line with our in-house design for system cylinders | heat pumps
- All hydraulic connections at the back of the appliance
- Can be used for both heating and cooling
- Easy to transport with recessed grips and removable casing

Part No.	Model	Rated capacity	Height	Width	Depth
235199	SBPE 400	396 l	1717 mm	787 mm	852 mm

Specification

Model	SBPE 400
Energy efficiency class	A
Standby energy consumption/24 h at 65 °C	1.30 kWh
Connection	4 x G2 A
Height of unit when tilted	1895 mm
Weight	131 kg

HEAT PUMPS
HEATING HYDRAULIC ACCESSORIES

SBP 1000 E SOL

Buffer cylinder SBP 1000/1010/1500 E and SBP 1000/1500 E SOL

APPLICATION: Buffer cylinders for heating heat pumps in large systems. They enable hydraulic separation of the liquid flowing in the heat pump and heating circuit, to extend heat pump runtimes and store heating energy. Suitable for use in apartment buildings and commercial buildings.

EQUIPMENT: Steel cylinder with flange connections arranged at the front one above the other for the primary and secondary circuit and additional connectors for the option of combining further heat generators. A flanged aperture sealed with a blank flange can also be fitted with an additional indirect coil or flanged immersion heater as required for the specific system. The ... E SOL types are also equipped with an internal smooth tube indirect solar coil.

EFFICIENCY: Low standby losses in combination with the high grade EPTS rigid foam thermal insulation as an accessory. Matched inlet and outlet technology for good temperature stratification. Designed for connecting heat pumps with high flow rates on the primary side

- For use in conjunction with large heat pumps
- May be combined with up to two heat sources and two electric immersion heaters (BGC)
- Flanged connections DN 80 for heat pump and heating circuit
- Flange aperture 280 mm with dummy flange for the optional use of WTW, WTFS and FCR electric immersion heater
- SBP 1000/1500 E SOL with solar indirect coil
- SBP 1010 E: High permissible operating pressure, preferably for use in multi storey buildings

Part No.	Model	Rated capa-	Height	Diameter incl. thermal insulation
227564	SBP 1000 E	1006 l	2300 mm	1010 mm
236569	SBP 1010 E	1006 l	2300 mm	1010 mm
227565	SBP 1500 E	1503 l	2220 mm	1220 mm
227566	SBP 1000 E SOL	979 l	2300 mm	1010 mm
227567	SBP 1500 E SOL	1473 l	2220 mm	1220 mm

Specification

Model	SBP 1000 E	SBP 1010 E	SBP 1500 E	SBP 1000 E SOL	SBP 1500 E SOL
Heat pump flange	DN 80	DN 80	DN 80	DN 80	DN 80
Immersion heater flange	DN 80	DN 80	DN 80	DN 80	DN 80
Heat exchanger connection				G 1	G 1
Max. recommended collector aperture area				20 m²	30 m²
Flanged aperture	280 mm	280 mm	280 mm	280 mm	280 mm
Surface, indirect coil				3 m²	3.6 m²
Height of unit when tilted	2335 mm	2335 mm	2250 mm	2335 mm	2250 mm
Max. permissible pressure	0.30 MPa	1.00 MPa	0.30 MPa	0.30 MPa	0.30 MPa
Weight	172 kg	233 kg	229 kg	219 kg	285 kg

The max. recommended collector aperture area relates to STIEBEL ELTRON flat-plate collectors.

SBP 1000 E SOL

Buffer cylinder SBP 1000/1010/1500 E cool

APPLICATION: Buffer cylinders for heat pumps in large systems for heating and cooling mode. They enable hydraulic separation of the liquid flowing in the heat pump and heating circuit, to extend heat pump runtimes and store heating energy. Suitable for use in apartment buildings and commercial buildings.

EQUIPMENT: Pre-insulated steel cylinder with flange connections arranged at the front one above the other for the primary and secondary circuit and additional connectors for the option of combining further heat generators. A flanged aperture sealed with a blank flange can also be fitted with an additional indirect coil or flanged immersion heater as required for the specific system.

EFFICIENCY: Low standby losses in combination with the high grade EPTS rigid foam thermal insulation (suitable for cooling) as an accessory and the pre-insulation fitted to the cylinder. This combination is an essential requirement for the buffer cylinder cooling capability. Matched inlet and outlet technology for good temperature stratification. Designed for connecting heat pumps with high flow rates on the primary side.

- Suitable for cooling, useable for heating and cooling operation
- Diffusion-proof preinsulated
- For use in conjunction with large heat pumps
- Further details as for the SBP 1000/1500 E
- SBP 1010 E cool: High permissible operating pressure, preferably for use in multi storey buildings

Part No.	Model	Rated capa-	Height	Diameter incl. thermal insulation
227588	SBP 1000 E cool	1006 l	2300 mm	1010 mm
236570	SBP 1010 E cool	1006 l	2300 mm	1010 mm
227589	SBP 1500 E cool	1503 l	2220 mm	1220 mm

Specification

Model	SBP 1000 E cool	SBP 1010 E cool	SBP 1500 E cool
Heat pump flange	DN 80	DN 80	DN 80
Immersion heater flange	DN 80	DN 80	DN 80
Max. permissible pressure	0.30 MPa	1.00 MPa	0.30 MPa
Flanged aperture	280 mm	280 mm	280 mm
Height of unit when tilted	2335 mm	2335 mm	2250 mm
Weight	181 kg	242 kg	239 kg

WDH 1000 SBP

Thermal insulation WDH 1000/1500 SBP and WDH 1000/1500 cool

High grade EPTS rigid foam thermal insulation with insulated cover and floor disc for buffer cylinders SBP 1000 to 1500. Graphite inserts in the EPTS and fleece for lowest heat losses. Wedge-shaped cut-outs and fleece layer ensure an optimum match to the cylinder. Prepared adhesive joint in the wedge-shaped cut-outs enables adjustment to the shape prior to installation. External plastic jacket in white; cover in basalt grey. Thermal insulation secured with a quick-release hook strip.

- Composite thermal insulation made from rigid foam and fleece
- Best insulation properties through graphite inclusions
- Prepared to be shaped into a semi-shell
- Suitability for cooling operation WDH...cool only in conjunction with pre-insulation on the cylinder SBP...E cool

Part No.	Model	Standby energy consumption/24 h at 65 °C	Insulation for	Height	Thickness
231929	WDH 1000 SBP	3.6 kWh	SBP 1000 E and E SOL	2340 mm	110 mm
201662	WDH 1010 SBP	3.6 kWh	SBP 1010 E	2340 mm	110 mm
231930	WDH 1500 SBP	4.1 kWh	SBP 1500 E and E SOL	2255 mm	110 mm
231921	WDH 1000 cool	3.5 kWh	SBP 1000 and 1010 E cool	2340 mm	110 mm
231922	WDH 1500 cool	4.0 kWh	SBP 1500 E cool	2255 mm	110 mm

HEAT PUMPS
HEATING HYDRAULIC ACCESSORIES

BF 80

Dummy flange BF 80

Two dummy flanges for optionally closing the DN 80 flange connections in the SBP 1000 - 1500 E | E SOL and cool buffer cylinders.

Part No.	Model	Flange diameter
231884	BF 80	DN 80

FG 80/2

Flange reducer FG 80/2

Two flange reducers in connection with the SBP 1000 - 1500 E | E SOL and cool buffer cylinders. The DN 80 flanges are reduced to G 2 A if required.

Part No.	Model	Flange diameter	Threaded connection
231885	FG 80/2	DN 80	G 2 A

UP 25/7.5 PCV

Heating circuit pumps

Energy efficient heating circuit pump (EEI ≤ 0.23), electronically controlled and with thermal insulation, to pump the heat transfer medium. The circulation pumps UP 25/7.5 PCV, UP 25/1-8 PCV and UP 30/1-8 PCV can be controlled via either a PWM signal or differential pressure. The UP 40/1-8 E and UP 50/1-12 E can be controlled via an IF module (accessories) with a 0-10 V signal.

- UP 25/7.5 PCV, UP 25/1-8 PCV and UP 30/1-8 PCV with 1500 mm connecting cable
- When using an IF module, UP 40/1-8 E and UP 50/1-12 E can be controlled via 0-10 V switching
- Circulation pump with energy efficiency category A

Part No.	Model
201620	UP 25/7.5 PCV
235950	UP 25/1-8 PCV
235951	UP 30/1-8 PCV
227422	UP 40/1-8 E
227423	UP 50/1-12 E

UP 25/30 1-8 PCV

Specification

Model	UP 25/7.5 PCV	UP 25/1-8 PCV	UP 30/1-8 PCV	UP 40/1-8 E	UP 50/1-12 E
Energy Efficiency Index EEI	0.20	0.23	0.23	0.23	0.23
Power consumption	10-60 W	8-130 W	8-130 W	12-310 W	25-590 W
Rated voltage	230 V	230 V	230 V	230 V	230 V
Fitted length (gauge)	180 mm	180 mm	180 mm	220 mm	220 mm
Connection	G 1 1/2	G 1 1/2	G 2	DN 40	DN 50
Head	8.40 m	8.00 m	8.00 m	8.00 m	11.00 m
Max. throughput	4.00 m³/h	8.00 m³/h	8.00 m³/h	15.00 m³/h	29.00 m³/h
Controlled via differential pressure	x	x	x	x	x
Control via PWM signal	x	x	x	-	-
Controlled via 0-10 V signal with IF module	-	-	-	x	x

UP 50/1-12 E

Stratos IF module

Extension module for UP 40 and 50

IF module as a retrofittable plug-in to extend the 0-10 V communication interface of UP 40/1-8 E and UP 50/1-12 E pumps

Part No.	Model
235952	Stratos IF module

HEAT PUMPS
HEATING HYDRAULIC ACCESSORIES

Compact installation WPKI for buffer cylinder SBP 100

Compact installations with all required components for the connection to the heating side (excl. circulation pumps) of the heat pump and the heating system to the buffer cylinder SBP 100. Subject to compact installation and heat pump, select the respective circulation pump.

WPKI-V

WPKI-V

- Compact installation for the connection of the WPF to buffer cylinder SBP 100
- Incl. optional connection for the DHW return

Part No.	Model
074347	WPKI-V

WPKI-P E

WPKI-P E

- Compact installation (without circulation pump) for the connection of the WPF..M to a SBP 100 buffer cylinder
- Incl. thermal insulation
- Incl. pump fitting

Part No.	Model
233097	WPKI-P E

WPKI-H E

WPKI-H E

- Compact installation for the connection of the heating circuit (incl. pump fitting) to the buffer cylinder SBP 100
- Incl. pump fitting (excl. circulation pump)
- Incl. thermal insulation

Part No.	Model
233098	WPKI-H E

WPKI-W E

WPKI-W E

- Compact installation for DHW heating with the heat pumps WPF..M
- Incl. thermal insulation
- Incl. pump fitting

Part No.	Model
233099	WPKI-W E

HEAT PUMPS
HEATING HYDRAULIC ACCESSORIES

Compact installation WPKI for buffer cylinder SBP 200/400/700

The compact installation includes all required components for the hydraulic connection of the heating heat pump to the 200-700 l buffer cylinders. All required components are included, such as a safety valve, thermometer/pressure gauge, shut-off valves, non-return valve and the option to connect an expansion vessel, plus the DHW heating set BBI 5. Subject to system, select and retrofit the heating circuit pump in DN 25. The WPKI 5 is suitable for heating heat pumps without integrated heating circuit pump.

WPKI 5

WPKI 5

- For heating heat pumps <20 kW, without integral circulation pump for 200 l, 400 l and 700 l buffer cylinders
- Incl. pump fitting (excl. circulation pump)
- Including insulation assembly for flow/return connector
- Integral non-return valve

Part No.	Model
234763	WPKI 5

BBI 5

BBI 5

- For hydraulic connection of the heat pump to a DHW cylinder in conjunction with the WPKI 5
- Integral non-return valve
- The required circulation pump (accessories UP 25/7.5 E) must be ordered separately

Part No.	Model
234764	BBI 5

WPKI 6

WPKI 6

- Compact installation for heating heat pumps (<20 kW, with integral circulation pump) for 200 l, 400 l and 700 l buffer cylinders
- Including insulation assembly for return connector

Part No.	Model
234762	WPKI 6

SBP inserts

Connection Components SBP

- Inserts for the connection of a buffer cylinder on the heating side

Part No.	Model
003711	Connection Components SBP

UP 25/7.5 PCV

Circulation pumps for compact installations

Circulation pump for the compact installation without pump fitting.

- Circulation pumps in energy efficiency category A

Part No.	Model	Connection
201620	UP 25/7.5 PCV	G 1 1/2

HEAT PUMPS
HEATING HYDRAULIC ACCESSORIES

Compact installations WPKI for hydraulic connection
Insulated heat pump assembly with white fascia, for heating circuit with or without mixer. The heating circuit assembly comprises an integral high efficiency circulation pump, shut-off valves with dial thermometers and gravity brake, including opening device.

Specification

Model	WPKI-HK E	WPKI-HKM E
Height	420 mm	420 mm
Width	250 mm	250 mm
Depth	269 mm	269 mm
Head	6.2 m	6.2 m
Max. throughput	3.3 m³/h	3.3 m³/h
Energy Efficiency Index EEI	0.20	0.20
Connection, top	G 1	G 1
Connection below	G 1 1/2 A	G 1 1/2 A
Circulation pump type	Yonos Para RS 25/6 RKA	Yonos Para RS 25/6 RKA

WPKI-HK(M) E

WPKI-HK E
- Insulated pump assembly for unmixed heating circuits
- Shut-off valves with thermometer
- Circulation pump with energy efficiency category A
- Including gravity brake

Part No.	Model
233602	WPKI-HK E

WPKI-HK(M) E

WPKI-HKM E
- Insulated pump casing for mixer heating circuits
- Including gravity brake
- With mixer and mixer motor
- Shut-off valves with thermometer
- Circulation pumps in energy efficiency category A

Part No.	Model
233603	WPKI-HKM E

WPKI-HKV 2

Accessories for compact installations
Manifold including insulation and fittings for use in heating systems for the installation of two or three WPKI-HK E and WPKI-HKM E heating circuit pump assemblies, subject to version.
- WPKI-HKV 2 for two pump assemblies
- WPKI-HKV 3 for three pump assemblies

Part No.	Model
221142	WPKI-HKV 2
236708	WPKI-HKV 3

WPKI-HKV 3

HEAT PUMPS
HEATING HYDRAULIC ACCESSORIES

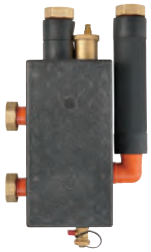
WPKI-RB

Pipe assembly

Pipe assembly for the connection of the WPKI-HK E and WPKI-HKM E to the 400/700 l buffer cylinders.

Part No.	Model
221141	WPKI-RB

WPHW



Low loss headers

For the hydraulic separation of heat pump and heating circuit with air separator and dirt trap. Welded casing with connectors. Fully insulated, with automatic float air vent valves, sensor wells for return sensor and drain valve.

Part No.	Model	Heating connection	Heat pump connection	Flow rate
221135	WPHW 25	G 1 ½	G 1 ½	2 m³/h

Electric booster heater for SBP 100

Heating flange for retrofitting into the SBP 100 with adjustable output of 2, 4 or 6 kW.

Part No.	Model
074252	SBP-HF Electric booster heater

Threaded immersion heater BGC

Threaded immersion heater for sealed heating and DHW heating systems. Infinitely variable temperature selection from approx. 10 °C to 80 °C. Temperature limit can be set to 45/60/80 °C. Integral temperature controller with high limit safety cut-out. Heating element and protective pipe material: Copper; threaded connection: Brass, thread G 1 1/2 with PTFE gasket.

Specification

Model	BGC/45	BGC	BGC 2/60
Connected load with ~ 230 V	2-5,7 kW	2-5,7 kW	2-5,7 kW
Connected load with ~ 400 V	6 kW	6 kW	6 kW
Power supply	1/N/PE, 2/PE, 3/PE	1/N/PE, 2/PE, 3/PE	1/N/PE, 2/PE, 3/PE
Rated voltage	230/400 V	230/400 V	230/400 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
IP-Rating	IP44	IP44	IP44
Max. permissible pressure	1 MPa	1 MPa	1 MPa

BGC

BGC/45

- Complete connection nipple G 1 1/2 for optional threading through the thermal insulation
- Suitable for use with DHW cylinders SBB (WP) basic and Trend
- Suitable for use with SB, SBB and SBP cylinders up to 500 litres, with directly applied foam insulation

Part No.	Model	Depth of insertion
075115	BGC/45	455 mm

BGC

BGC

- For use in WPRB pipe assembly for electric reheating

Part No.	Model	Depth of insertion
003769	BGC	500 mm

HEAT PUMPS
HEATING HYDRAULIC ACCESSORIES

BGC

BGC 2/60

- Complete with connector 60 mm G 1 1/2 to enable threaded fitting through the thermal insulation
- Suitable for use with SBB, SBS and SBP system cylinders in conjunction with WD and WDH thermal insulation
- Suitable for use with buffer cylinders SBP 700 E/E SOL and solar cylinders SBB 600 plus
- Suitable for use with SB, SBB and SBP cylinders up to 500 litres, with directly applied foam insulation (exception SBB (WP) basic and Trend)

Part No.	Model	Depth of insertion
232030	BGC 2/60	480 mm

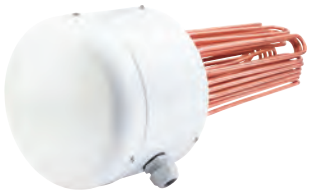
WPRB

Pipe set for electric booster heater

Pipe set for threaded heater element type BGC for electrical re-heating.

Part No.	Model
074233	WPRB Pipework set

FCR 28/360



Flanged immersion heaters FCR 28

Flanged immersion heaters for horizontal installation in sealed DHW cylinders with flange connector to DIN 4805, e.g. mating flange GF 28. Observe the details supplied by the cylinder manufacturer and DIN 4753 or 4751.Standard delivery: Temperature controller with frost protection setting, high limit safety cut-out, flange gasket, protective cover with two cable inlets.

- Infinitely variable temperature selection from approx. 35 °C to approx. 85 °C
- FCR (single circuit) temperature selection from the control room
- FCR (dual circuit/single circuit) external control for temperature selection
- Replaceable copper immersion heaters
- Heating element made from high grade stainless steel for problematic water qualities (FCR 28/120 CrNi)
- Permissible operating pressure 1.0 MPa (10 bar)

Part No.	Model	Connected load with ~ 400 V	Version
000694	FCR 28/120	12 kW	Single circuit
000695	FCR 28/180	18 kW	Single circuit
000696	FCR 28/270	27 kW	Single circuit
001502	FCR 28/360	36 kW	Single circuit
071332	FCR 28/120	6/12 kW	Single/two line
234503	FCR 28/120 CrNi	6/12 kW	Single/two line
071333	FCR 28/180	9/18 kW	Single/two line

Specification

Model	FCR 28/120	FCR 28/180	FCR 28/270	FCR 28/360	FCR 28/120	FCR 28/120 CrNi	FCR 28/180
Flange diameter	280 mm	280 mm	280 mm	280 mm	280 mm	280 mm	280 mm
Power supply	3/PE	3/PE	3/PE	3/PE	3/PE	3/PE	3/PE
Rated voltage	400 V	400 V	400 V	400 V	400 V	400 V	400 V
Frequency	50 Hz	50 Hz	50 Hz	50/60 Hz	50 Hz	50 Hz	50 Hz
Depth of insertion	325 mm	325 mm	325 mm	450 mm	450 mm	450 mm	450 mm
May be fitted into type	SB 602-1002 AC, SBP 1000-1500 E and E SOL, SBB 751-1001 and SOL	SB 602-1002 AC, SBP 1000-1500 E and E SOL, SBB 751-1001 and SOL	SB 602-1002 AC, SBP 1000-1500 E and E SOL, SBB 751-1001 and SOL	SB 602-1002 AC, SBP 1000-1500 E and E SOL, SBB 751-1001 and SOL	SB 602-1002 AC, SBP 1000-1500 E and E SOL, SBB 751-1001 and SOL	SB 602-1002 AC, SBP 1000-1500 E and E SOL, SBB 751-1001 and SOL	SB 602-1002 AC, SBP 1000-1500 E and E SOL, SBB 751-1001 and SOL
IP-Rating	IP24	IP24	IP24	IP24	IP24	IP24	IP24
Integral contactor	X	X	X	-	X	X	X
Coil voltage	400 V	400 V	400 V		230 V	230 V	230 V

HEAT PUMPS
HEATING HYDRAULIC ACCESSORIES

FS-WP 22

FS-WP 28

MFS-WP 22

Filter sets

Filter for installation in the heat generator return. To protect the heat pump against contamination.

- FS-WP 22 with backwash facility
- FS-WP 28 with a removable filter element
- MFS-WP 22 with backflushing facility, pressure gauge and ball valve
- MFS-WP 28 with removable filter element, pressure gauge and ball valve

Part No.	Model	Connection
233511	FS-WP 22	G 1 A / Cu 22 x 1
233512	FS-WP 28	G 1 ¼ A / Cu 28 x 1.5
235233	MFS-WP 22	G 1 A / Cu 22 x 1
235234	MFS-WP 28	G 1 ¼ A / Cu 28 x 1.5

HUV 1/2

HUV 65

Heating diverter valve

Three-way diverter valve with servomotor.

Part No.	Model	Connection
227420	HUV 1	G1
223391	HUV 2	G 2 ¾
227425	HUV 65	DN 65
227426	HUV 80	DN 80

STB-FB

STB-FB safety temperature controller for underfloor heating

Bi-metal contact thermostat with casing for limiting the maximum permissible flow temperature.

Part No.	Model
233711	STB-FB

Specification

Model	STB-FB
Available temperature range	20-90 °C
IP-Rating	IP30
Switching hysteresis	8±3 K

HZEA

Heating descaler

Heating descaler for the initial filling and topping up of heating systems. Subject to system volume, keep some spare cartridges for the initial filling.

- The volume of softened water is subject to the level of hardness in the water.

Part No.	Model	Height	Width	Depth
230013	HZEA	600 mm	260 mm	130 mm

Specification

Model	HZEA
Weight	3 kg
Max. permissible pressure	0.80 MPa
Max. operating temperature	40 °C
Max. flow rate	0.30 m³/h
Connection	Rp 1/2

HZEN

Spare cartridge for HZEA

Spare cartridge for the heating descaler HZEA.

- The volume of softened water is subject to the level of hardness in the water.

Part No.	Model
230031	HZEN

HEAT PUMPS
HEATING HYDRAULIC ACCESSORIES

Pressure hose straight/straight

Pressure hoses for flow and return lines SD..G

Pressure hoses for flow and return lines (with 19 mm thermal insulation), operating pressure 0.3 MPa with threaded fittings. With straight ends.

Part No.	Model	For pressure hose size DN	Length	External diameter with insulation	Connections for the heating and source side
232976	SD 25-1 G	25	1 m	80 mm	G 1 ¼
232977	SD 32-1 G	32	1 m	86 mm	G 1 ¼

Pressure hose straight/straight

Pressure hoses for flow and return lines SD..GE

Pressure hoses for flow and return lines (with 30 mm thermal insulation), operating pressure 0.25 MPa with threaded fittings. With straight ends.

Part No.	Model	For pressure hose size DN	Length	External diameter with insulation	Connections for the heating and source side
233828	SD 25-2 GE	25	2 m	99 mm	G 1 ¼
232971	SD 25-2.5 GE	25	2,5 m	99 mm	G 1 ¼
233831	SD 32-2 GE	32	2 m	106 mm	G 1 ¼

Pressure-tested hose, straight/angled

Pressure hoses for flow and return lines SD

Pressure hoses for flow and return lines (with 19 mm thermal insulation), operating pressure 0.25 MPa with threaded fittings. With one right angle and one straight end piece.

Part No.	Model	For pressure hose size DN	Length	External diameter with insulation	Connections for the heating and source side
074415	SD 25-1	25	1 m	80 mm	G 1 ¼
074414	SD 32-1	32	1 m	86 mm	G 1 ¼

Pressure-tested hose, straight/angled

Pressure hoses for flow and return lines SD..E

Pressure hoses for flow and return lines (with 30 mm thermal insulation), operating pressure 0.25 MPa with threaded fittings. With one right angle and one straight end piece.

Part No.	Model	For pressure hose size DN	Length	External diameter with insulation	Connections for the heating and source side
232965	SD 25-1 E	25	1 m	99 mm	G 1 ¼
232968	SD 32-1 E	32	1 m	106 mm	G 1 ¼
232972	SD 50-1 E	50	1 m	134 mm	G 2

SD 32-1 KE

Pressure hoses (may be trimmed to size)

Pressure hoses (can be trimmed) for flow and return lines (with 30 mm thermal insulation), operating pressure 0.25 MPa with threaded fittings.

Part No.	Model	For pressure hose size DN	Length	External diameter with insulation	Connections for the heating and source side
232974	SD 25-1 KE	25	1 m	99 mm	G 1 ¼
232975	SD 32-1 KE	32	1 m	106 mm	G 1 ¼

Hose fittings for flow and return lines

Hose fittings for trimming the anti vibration hoses with threaded connections.

Part No.	Model	Connections for the heating and source side
003713	Hose fitting DN 25	G 1 1/4 A
070692	Hose fitting DN 32	G 1 1/4 A

DHW heat pumps

DHW HEAT PUMPS

DHW heat pumps for a centralised DHW provision to several draw-off points. Compact appliance with Air-water heat pump unit, thermally insulated steel cylinder (special enamel coating on the inside).

- Efficient DHW heating throughout the year
- Energy demand for DHW heating reduced by up to 70 %
- In the summer months, central heating can be switched off
- Dehumidifies and protects the fabric of the building
- Easy to install and operate
- Low initial outlay
- Options for targeted increase in the use of self-generated PV power

SHP-A 220 Plus

SHP-A 300 (X) Plus

Compact series SHP-A 220/300 Plus (X) | recirculation air mode

APPLICATION: Compact DHW heat pump for efficient DHW supply to several draw-off points. For recirculation air mode. Quick and easy installation to make efficient use of existing waste heat, e.g. from freezers, tumble dryers, heating systems or other sources of waste heat in the installation room.

EQUIPMENT/CONVENIENCE: Very high level of DHW convenience. Up to max. 65 °C in heat pump only mode for hygienic DHW heating and very large amounts of mixed water. High operating convenience. Electronic controller with LCD indicating the currently available amount of mixed water. Electric emergency/booster heater as standard. Compressor sound-insulated from the air stream for quiet operation. Highly reliable and cost saving due to the integral impressed current anode. Series with highly compact 220 l version, ideal for installation rooms with low ceiling height.

COMBINATION OPTIONS: Intelligent interface for communication with suitable photovoltaic systems as standard (for targeted increase in on-site consumption). SOL version with integrated smooth-tube indirect coil can also be combined with a solar thermal system or an oil, gas or solid fuel boiler (incl. 2 sensor wells giving a choice of heat generator integration).

EFFICIENCY: Outstanding efficiency. All appliances in the series are noted for their A+ energy rating, the highest possible energy efficiency class.

SPECIAL FEATURES: Spring-loaded roll bond heat exchanger for maximum efficiency over the entire service life of the appliance.

Part No.	Model	Average heating output (A15/W10-55)	Height	Diameter	Weight
238633	SHP-A 220 Plus	1,6 kW	1501 mm	690 mm	120 kg
238634	SHP-A 300 Plus	1,6 kW	1905 mm	690 mm	135 kg
238635	SHP-A 300 X Plus	1,6 kW	1905 mm	690 mm	156 kg

Specification

Model	SHP-A 220 Plus	SHP-A 300 Plus	SHP-A 300 X Plus
Energy efficiency class, DHW heating (indoor air), load profile XL		A+	A+
Energy efficiency class, DHW heating (indoor air), load profile L	A+		
Heat source min./max. application limits	+6/+42 °C	+6/+42 °C	+6/+42 °C
Rated capacity	220 l	302 l	291 l
Surface, indirect coil			1.3 m²
Maximum DHW temperature with heat pump	65 °C	65 °C	65 °C
Nominal DHW temperature (EN 16147)	55 °C	55 °C	55 °C
Nominal load profile (EN16147)	L	XL	XL
Maximum available nominal DHW volume at 40 °C (EN 16147 / A20)	278 l	395 l	371 l
Rated heating output Prated (EN 16147/A20)	1.6 kW	1.52 kW	1.43 kW
Heat-up time (EN 16147 / A20)	6,06 h	9,05 h	9,05 h
Power consumption, standby period (EN 16147 / A20)	0,022 kW	0,024 kW	0,028 kW
COP (EN 16147 / A20)	3,55	3,51	3,51
Booster heater power consumption	1.5 kW	1.5 kW	1.5 kW
Sound power level (EN 12102)	60 dB(A)	60 dB(A)	60 dB(A)
Average sound pressure level at 1 m distance, free field	45 dB(A)	45 dB(A)	45 dB(A)
Power supply	1/N/PE 220-240 V 50/60 Hz	1/N/PE 220-240 V 50/60 Hz	1/N/PE 220-240 V 50/60 Hz

Energy efficiency class in accordance with EU Regulation no. 812/2013; rating from September 2017. Highest possible energy rating A until September 2017.
Rated data to EN 16147 – heat pump for recirculated air

HEAT PUMPS
DHW HEAT PUMPS

SHP-F 220 Premium

SHP-F 300 (X) Premium

Compact series SHP-F 220/300 Premium (X) | recirculation air or air duct/outdoor air operation

APPLICATION: Compact DHW heat pump for efficient DHW supply to several draw-off points. For recirculation air or air duct operation, as well as for use with low supply air temperatures. The appliance air routing options to the side and/or from above provide great flexibility for positioning and installation in the installation room (for air routing from above, LUS 221/301 accessory required).

EQUIPMENT/CONVENIENCE: Very high level of DHW convenience. Up to max. 65 °C in heat pump only mode for hygienic DHW heating and very large amounts of mixed water. High operating convenience. Electronic controller with LCD indicating the currently available amount of mixed water. Electric emergency/booster heater as standard. Compressor sound-insulated from the air stream for quiet operation. Highly reliable and cost saving due to the integral impressed current anode. Series with highly compact 220 l version, ideal for installation rooms with low ceiling height.

COMBINATION OPTIONS: Intelligent interface for communication with suitable photovoltaic systems as standard (for targeted increase in on-site consumption). SOL version with integrated smooth-tube indirect coil can also be combined with a solar thermal system or an oil, gas or solid fuel boiler (incl. 2 sensor wells giving a choice of heat generator integration).

EFFICIENCY: Outstanding efficiency. All appliances in the series are noted for their A+ energy rating, the highest possible energy efficiency class.

SPECIAL FEATURES: Spring-loaded roll bond heat exchanger for maximum efficiency over the entire service life of the appliance.

Part No.	Model	Average heating output (A15/W10-55)	Height	Diameter	Weight
238630	SHP-F 220 Premium	1,6 kW	1501 mm	690 mm	120 kg
238631	SHP-F 300 Premium	1,6 kW	1905 mm	690 mm	135 kg
238632	SHP-F 300 X Premium	1,6 kW	1905 mm	690 mm	156 kg

Specification

Model	SHP-F 220 Premium	SHP-F 300 Premium	SHP-F 300 X Premium
Energy efficiency class, DHW heating (indoor air), load profile L	A+		
Energy efficiency class, DHW heating (outdoor air), load profile L	A+		
Energy efficiency class, DHW heating (indoor air), load profile XL		A+	A+
Energy efficiency class, DHW heating (outdoor air), load profile XL		A+	A+
Heat source min./max. application limits	-8/+42 °C	-8/+42 °C	-8/+42 °C
Rated capacity	220 l		291 l
Surface, indirect coil			1.3 m²
Maximum DHW temperature with heat pump	65 °C	65 °C	65 °C
Nominal DHW temperature (EN 16147)	55 °C	55 °C	55 °C
Nominal load profile (EN16147)	L	XL	XL
Maximum available nominal DHW volume at 40 °C (EN 16147 / A20)	284 l	422 l	399 l
Maximum available amount of DHW at 40 °C (EN 16147 / A7)	267 l	422 l	394 l
Rated heating output Prated (EN 16147/A20)	1.51 kW	1.67 kW	1.67 kW
Rated heating output Prated (EN 16147/A7)	1.08 kW	1.3 kW	1.12 kW
COP (EN 16147 / A20)	3,28	3,75	3,75
COP (EN 16147 / A7)	3,07	3,22	2,99
Booster heater power consumption	1.5 kW	1.5 kW	1.5 kW
Sound power level, indoor, with 4 m air duct (EN 12102)	52 dB(A)	52 dB(A)	52 dB(A)
Indoor sound power level without air duct (EN 12102)	60 dB(A)	60 dB(A)	60 dB(A)
Average indoor sound pressure level at 1 m distance, free field with 4 m air duct	37 dB(A)	37 dB(A)	37 dB(A)
Average indoor sound pressure level at 1 m distance, free field, without air duct	45 dB(A)	45 dB(A)	45 dB(A)
Max air duct length at 160/200 mm diameter (including 3 x 90° bends)	20/40 m	20/40 m	20/40 m
Available external pressure	120 Pa	120 Pa	120 Pa
Power supply	1/N/PE ~ 230 V 50Hz	1/N/PE ~ 230 V 50Hz	1/N/PE ~ 230 V 50Hz

Energy efficiency class in accordance with EU Regulation no. 812/2013; rating from September 2017. Highest possible energy rating A until September 2017.
Nominal data to EN 16147 - recirculation air and outdoor air heat pump (indoor installation)

HEAT PUMPS
DHW HEAT PUMPS

WWK 222

WWK 302

Compact series WWK 222/302 (H) | outdoor installation

APPLICATION: Compact DHW heat pump specially developed for outdoor installation, for efficient DHW supply to several draw-off points. Also suitable for indoor installation in recirculation air mode.Quick and easy installation. No settings need to be made, set DHW value is already preset.

EQUIPMENT AND CONVENIENCE: Stove enamelled metal casing and refrigerant circuit assemblies insulated from the air stream for maximum robustness and durability in outdoor installations. Very high level of DHW convenience. Both cylinder sizes achieve the highly demanding XL draw-off profile. Very large amounts of mixed water and hygiene-promoting DHW temperatures > 60 °C are achievable in efficient heat pump mode alone. Compressor sound-insulated from the air stream for quiet operation. Highly reliable and cost saving due to the maintenance-free impressed current anode integrated as standard. WW K ... H version with emergency/booster heater included as standard. Includes connector for on-site temperature and pressure safety valve (T&P valve).

EFFICIENCY: Very high efficiency. Both sizes easily meet the requirements for energy efficiency class A, currently the highest possible classification.

SPECIAL FEATURES: Reliable, high grade equipment. Spring loaded roll bond heat exchanger for maximum safety and enduring high efficiency over the entire service life of the appliance.

Part No.	Model	Average heating output (A15/W10-55)	Height	Diameter	Weight
231209	WWK 222	1,6 kW	1501 mm	690 mm	120 kg
233209	WWK 222 H	1,6 kW	1501 mm	690 mm	120 kg
231211	WWK 302	1,6 kW	1905 mm	690 mm	135 kg
232905	WWK 302 H	1,6 kW	1905 mm	690 mm	135 kg

Specification

Model	WWK 222	WWK 222 H	WWK 302	WWK 302 H
Energy efficiency class, DHW heating (indoor air), load profile L	A+	A+		
Energy efficiency class, DHW heating (indoor air), load profile XL			A	A
Heat source min./max. application limits	-5/+42 °C	-5/+42 °C	-5/+42 °C	-5/+42 °C
Rated capacity	220 l	220 l	302 l	302 l
HP DHW temperature	61 °C	61 °C	61 °C	61 °C
Nominal load profile (EN16147)	L	L	XL	XL
Maximum available nominal DHW volume at 40 °C (EN 16147 / A20)	322 l	322 l	457 l	457 l
Rated heating output Prated (EN 16147/A20)	1.43 kW	1.43 kW	1.5 kW	1.5 kW
Heat-up time (EN 16147 / A20)	7,48 h	7,48 h	11,17 h	11,17 h
Power consumption, standby period (EN 16147 / A20)	0,034 kW	0,034 kW	0,037 kW	0,037 kW
COP (EN 16147 / A20)	2,92	2,92	2,91	2,91
Power consumption, emergency/booster heater		1.5 kW		1.5 kW
Sound power level (EN 12102)	60 dB(A)	60 dB(A)	60 dB(A)	60 dB(A)
Average sound pressure level at 1 m distance, free field	45 dB(A)	45 dB(A)	45 dB(A)	45 dB(A)
Safety valve connection	Rp 3/4	Rp 3/4	Rp 3/4	Rp 3/4
Power supply	1/N/PE 220-240 V 50/60 Hz	1/N/PE 220-240 V 50/60 Hz	1/N/PE 220-240 V 50/60 Hz	1/N/PE 220-240 V 50/60 Hz

Rated data to EN 16147 – heat pump for recirculated air

HEAT PUMPS
ACCESSORIES DHW HEAT PUMPS

ACCESSORIES DHW HEAT PUMPS

ZH 1

Safety assembly

Safety assembly ZH 1 for sealed unvented floorstanding cylinders up to 1000 litres. Pressure reducing valve DMV/ZH1 may be retrofitted. Brass casing, G 3/4 connections.

- Safety valve 0.6 MPa (6 bar) fitted as standard; replacement cartridge supplied 1.0 MPa (10 bar)
- Test symbol PA-IX 1794/I

Part No.	Model	Response pressure, safety relief valve	Connection
074370	ZH 1	0.6 MPa	G 3/4 A

Inlet pipe 200/500 l

Inlet pipe kit WWS 20

Inlet connector with heating lance for heating floorstanding DHW cylinders with DHW connectors in the cylinder dome. Installation connections: to cylinder G1, to draw-off points G1, from heat generator G 3/4. Heating lance may need to be trimmed on site.

Part No.	Model
072997	Inlet pipe 200/500 l

BGC

Threaded immersion heater for optional connection to WWS 20

- If required, can be used in an external cylinder, with control connection to the WWS 20
- Complete connection nipple G 1 1/2 for optional threading through the thermal insulation
- In combination with WWS 20 max. output to be maintained 2 kW
- Cannot be used when using the WWS 20 ‚inlet pipe kit' accessory

Part No.	Model
075115	BGC/45

AWG 160 R

Thermally insulating wall outlet with weather grille

Thermally insulating EPS wall outlet for air duct connection DN 160. No additional thermal insulation required around the pipe when using outdoor air as the heat source. This enables very easy installation even with modest dimensions. Includes weather grille made from painted sheet steel in silver grey. Very quiet weather grille with very low pressure drop. Weather grille with drip edge safely prevents run marks on the external wall.

Part No.	Model	Max. air flow rate	Suitable for	External pipe diameter
234505	AWG 160 R	350 m³/h	Duct connection DN 160	200 mm

LUS 221/301

WWK 221/301 electronic (SOL) air diverter set

With the „LUS 221/301" accessory set, the air flow of DHW heat pump series „221/301 electronic (SOL)", which is routed horizontally at the factory, can be turned upright (DN 160). This enables horizontal and/or vertical air routing of the air intake and/or air discharge and as a result, offers maximum flexibility for installation and positioning in the installation room. Standard delivery includes: conversion accessories for air intake and air discharge.

Part No.	Model	Connection
236899	LUS 221/301	DN 160

NOTES

Ventilation

Ventilation
Integral device with central ventilation air supply

LWZ CS Premium

INTEGRAL DEVICE WITH CENTRAL VENTILATION AIR SUPPLY

LWZ Premium

APPLICATION: Integral system with output-dependent control, with reversible air | water heat pump for central ventilation, central DHW heating, heating and cooling in new build and detached houses.

EQUIPMENT/CONVENIENCE: Integral electronic weather-compensated control unit for output-dependent control of the heating output, DHW output, solar thermal system, cooling and ventilation. Intelligent control unit with preselected programs for fans, heating, DHW and absence/holiday. Additional functions such as humidity protection ventilation with integral humidity sensor in the extract air, air flow rate reduction when humidity is too low, passive cooling and dry heating program. Integral programming unit, remote control unit with humidity sensor optional. Internet Service Gateway (ISG) with optional KNX and PV optimisation. The refrigerant circuit of the air | water heat pump is equipped with all necessary safety equipment. Output-controlled cooling with option of direct area cooling. Electric emergency/booster heater for heating and DHW heating. The integral DHW cylinder has a special enamel coating and is equipped with a protective magnesium anode with electronic monitoring. Highly efficient cross-countercurrent heat exchanger made from plastic with economical, constant flow rate fan. Outdoor air is preheated by a refrigerant circuit supercooler. Additional solar heat exchanger in the heating circuit for utilising solar thermal energy.

EFFICIENCY: High efficiency thanks to demand-dependent control of the inverter compressor. Energy efficient thanks to constant flow rate fan.

INSTALLATION: The outdoor air, supply air, exhaust air and extract air connections are located at the top of the appliance. Robust sheet steel casing in a modern, award-winning design.

- Compact appliance offering the following functions: ventilation, central heating, DHW heating and cooling
- Matrix display with „Touch Wheel“ for intuitive operation
- Integral high efficiency pump for energy saving heat distribution
- Integral DHW cylinder for mixed water volumes of up to 375 litres at 40 °C
- Ergonomically designed programming unit for easy operation

Part No.	Model	Output at A-7/W35 (EN 14511)	Output at A2/W35 (EN 14511)	Coefficient of performance at A-7/W35 (EN 14511)	Coefficient of performance at A2/W35 (EN 14511)
201290	LWZ 8 CS Premium	8.34 kW	5.16 kW	2.61	3.74

Specification

Model	LWZ 8 CS Premium
Energy efficiency class, heat pump W35	A++
Energy efficiency class, W55 heat pump	A++
Energy efficiency class, composite system (heat pump + controller) W35	A++
Energy efficiency class, composite system (heat pump + controller) W55	A++
Energy efficiency class, DHW heating, load profile L	A
Output at A-7/W35 (EN 14511)	8.34 kW
Refrigerating capacity at A35/W7	2.69 kW
Cooling factor at A35/W7	1.92
Rated compressor voltage	230 V
Rated control voltage	230 V
Rated voltage, emergency/booster heater	400 V
Air flow rate	80-300 m³/h
Heat availability level up to	90 %
Cylinder capacity	235 l
Filter class	ePM10 ≥ 50 % (M5) | ISO Coarse > 60 % (G4)
Sound power level (EN 12102)	50 dB(A)
Height	1885 mm
Width	1430 mm
Depth	812 mm
Weight	442 kg

Ventilation
Integral device with central ventilation air supply

LWZ S Plus

LWZ Plus

APPLICATION: Integral system with output-dependent control, featuring an air | water heat pump for central ventilation, central DHW heating and heating in new builds and detached houses.

EQUIPMENT/CONVENIENCE: Integral electronic weather-compensated control unit to regulate the heating output, DHW output and ventilation. Intelligent control unit with preselected programs for fans, heating, DHW and absence/holiday. Additional functions such as humidity protection ventilation with integral humidity sensor in the extract air, air flow rate reduction when humidity is too low, passive cooling and dry heating program. Integral programming unit, remote control with optional humidity sensor, Internet Service Gateway (ISG) with optional KNX and PV optimisation (not possible with the integral version). The refrigerant circuit of the air | water heat pump is equipped with all necessary safety equipment. Electric emergency heater for heating and DHW heating. The integral DHW cylinder has a special enamel coating and is equipped with a protective magnesium anode with electronic monitoring. Highly efficient cross-countercurrent heat exchanger made from plastic with economical, constant flow rate fan. The outdoor air is preheated by a refrigerant circuit supercooler.

EFFICIENCY: High efficiency thanks to optimised refrigerant circuit. Energy efficient thanks to constant flow rate fan.

INSTALLATION: The outdoor air, supply air, exhaust air and extract air connections are located at the top of the appliance. Robust sheet steel casing in a timeless design.

- Compact devices offering the following functions: ventilation, DHW and central heating
- Matrix display with „Touch Wheel“ for intuitive operation
- Integral high efficiency pump for energy saving heat distribution
- Integral DHW cylinder for mixed water volumes of up to 375 litres at 40 °C

Part No.	Model	Output at A-7/W35 (EN 14511)	Output at A2/W35 (EN 14511)	Coefficient of performance at A-7/W35 (EN 14511)	Coefficient of performance at A2/W35 (EN 14511)
201291	LWZ 5 S Plus	5.5 kW	5.16 kW	2.61	3.74

Specification

Model	LWZ 5 S Plus
Energy efficiency class, heat pump W35	A++
Energy efficiency class, W55 heat pump	A+
Energy efficiency class, composite system (heat pump + controller) W35	A++
Energy efficiency class, composite system (heat pump + controller) W55	A++
Energy efficiency class, DHW heating, load profile L	A
Rated compressor voltage	230 V
Rated control voltage	230 V
Rated voltage, emergency/booster heater	400 V
Air flow rate	80-300 m³/h
Heat availability level up to	90 %
Cylinder capacity	235 l
Filter class	ISO Coarse > 60 % (G4)
Sound power level (EN 12102)	52 dB(A)
Height	1885 mm
Width	1430 mm
Depth	735 mm
Weight	400 kg

Ventilation
Integral device with central ventilation air supply

LWZ S Trend

LWZ Trend

APPLICATION: Integral system with output-dependent control, featuring an air | water heat pump for central ventilation and heating, combined with external DHW cylinder in new builds and detached houses.

EQUIPMENT/CONVENIENCE: Integral electronic weather-compensated control unit to regulate the heating output, DHW output and ventilation. Intelligent control unit with preselected programs for fans, heating, DHW and absence/holiday. Additional functions such as humidity protection ventilation with integral humidity sensor in the extract air, air flow rate reduction when humidity is too low, passive cooling and dry heating program. Integral programming unit, remote control with humidity sensor optional, Internet Service Gateway (ISG) with optional KNX and PV optimisation. The refrigerant circuit of the air | water heat pump is equipped with all necessary safety equipment. Electric emergency heater for heating and DHW heating. Possible to combine with external cylinders of various sizes. Highly efficient cross-countercurrent heat exchanger made from plastic with economical, constant flow rate fan. Outdoor air is preheated by a refrigerant circuit supercooler.

EFFICIENCY: High efficiency thanks to optimised refrigerant circuit; energy efficient due to constant flow rate fan.

INSTALLATION: The outdoor air, supply air, exhaust air and extract air connections are located at the top of the appliance. Easy access to electrical connection panel.

- Compact appliances with ventilation and heating functions
- Matrix display with „Touch Wheel“ for intuitive operation
- Integral high efficiency pump for energy saving heat distribution
- Can be combined with 300 l or 400 l DHW cylinder for greater DHW convenience

Part No.	Model	Output at A-7/W35 (EN 14511)	Output at A2/W35 (EN 14511)	Coefficient of performance at A-7/W35 (EN 14511)	Coefficient of performance at A2/W35 (EN 14511)
201292	LWZ 5 S Trend	5.5 kW	5.16 kW	2.61	3.74

Specification

Model	LWZ 5 S Trend
Energy efficiency class, heat pump W35	A++
Energy efficiency class, W55 heat pump	A+
Rated compressor voltage	230 V
Rated control voltage	230 V
Rated voltage, emergency/booster heater	400 V
Air flow rate	80-300 m³/h
Heat availability level up to	90 %
Filter class	ISO Coarse > 60 % (G4)
Sound power level (EN 12102)	52 dB(A)
Height	1885 mm
Width	808 mm
Depth	735 mm
Weight	228 kg

Ventilation
Integral device with central ventilation air supply

FES Komfort

ISG web

AWG 315 SR

LUH 315

LLB AWG 315/560 L

Filter mat set

Summer cassette EPS

LWF SF 315-1

FMS G4-10

Accessories for LWZ integral appliances

Accessories for the LWZ 304/404/504 central compact ventilation units, for remote control, internet service, routing the outdoor and exhaust air, plus spare filters.

Part No.	Model	Description	Internal diameter
227664	FES Comfort	Comfort programming unit for wall mounting	
229336	ISG web	Internet Service Gateway	
233836	AWG 315 SR	Wall outlet with weather grille, thermally insulated	315 mm
232955	AWG 315 GL	Grey painted wall transition with weather grille, thermally insulated	315 mm
231039	AWG 315 L	Wall outlet for light shaft, thermally insulated	315 mm
232341	LLB AWG 315 L	Deflector for the exhaust air in a light shaft	
201618	LSWP 315-4 SG	Thermally and sound insulated air hose, 4 m long, DN 315, grey outer sheath	315 mm
201720	LSWP 315-1.5 SG	Thermally and sound insulated air hose, 1.5 m long, DN 315, grey outer sheath	315 mm
234646	LSWP 315-4 S	Thermally and sound insulated air hose, 4 m long, DN 315	315 mm
232675	LULH 315 o	Air diverter hood, outdoor/exhaust air	
227665	LSK 303/403	Summer cassette	
233867	LWTF inverter	Replacement enthalpy heat exchanger	
233301	ZLWZ circulation set	Connection set for DHW circulation pump	
231330	FMS G4-10 ABL inverter	Filter mat set, extract air ISO coarse < 60 % (G4), 10 pce	
231331	FMS M5-2 ZUL inverter	Filter mat set, supply air ePM10 > 50 % (M5), 2 pce	
231332	FMS F7-2 ZUL inverter	Filter mat set, supply air ePM1 > 50 % (F7), 2 pce	
233485	ZLWZ Trans	Transport aid	

Ventilation
Ventilation equipment with DHW heat pump

LWA 252

VENTILATION EQUIPMENT WITH DHW HEAT PUMP

LWA 252 / SOL

Integral system for ventilation of apartments and detached houses as well as central DHW heating. Supply air provision is decentralised; air flow rates can be infinitely adjusted. Heat recovery from the extract air through a heat pump unit; the recovered heat is fed into the DHW cylinder; as an option with internal indirect coil and integral solar control unit.

- Compact appliances offering the following functions: Ventilation and DHW heating
- Thermal insulation with low thermal losses
- Ventilation and DHW program
- Integral solar controller (for the SOL version)

Part No.	Model	Height	Width	Depth	Air flow rate
074264	LWA 252	1860 mm	696 mm	735 mm	80-400 m³/h
074265	LWA 252 SOL	1860 mm	696 mm	735 mm	80-400 m³/h

Specification

Model	LWA 252	LWA 252 SOL
Energy efficiency class, DHW heating (extract air), load profile XL	A+	A+
Rated capacity	300 l	300 l
HP DHW temperature	60 °C	60 °C
Max. DHW temperature	70 °C	70 °C
Electric emergency/booster heater	1,5 kW	1,5 kW
Nominal DHW temperature (EN 16147)	55 °C	55 °C
Nominal load profile (EN16147)	XL	XL
Maximum available amount of DHW at 40 °C (EN 16147 / A20 extract air)	412 l	412 l
Average heating output (EN 16147 / A20 extract air)	1.40 kW	1.40 kW
Heat-up time (EN 16147 / A20 extract air)	11,3 h	11,3 h
Average heat pump power consumption (EN 16147 / A20 extract air)	0.40 kW	0.40 kW
Power consumption, standby period (EN 16147 / A20 extract air)	0,031 kW	0,031 kW
Performance factor (EN 16147 / A20 extract air)	3.42	3.42
Air connector diameter	160 mm	160 mm
Refrigerant	R134a	R134a
Refrigerant capacity	0,85 kg	0,85 kg
Application range min./max.	15...30 °C	15...30 °C
Weight	150 kg	180 kg
Sound power level (EN 12102)	45 dB(A)	45 dB(A)

Ventilation
Ventilation equipment with DHW heat pump

LWA 100

Compact series LWA 100 | Wall mounted for smaller to medium size apartments

APPLICATION: The wall mounted compact appliance is suitable for supplying DHW to several draw-off points (single and group supply), e.g. simultaneous supply to bathroom and kitchen and for ventilating small to medium sized apartments. A heat pump unit stores the heat recovered from the extract air in the DHW cylinder. Decentralised supply air routing via external wall vents. Pressure-tested appliance for use with all commercially available pressure fittings.

EQUIPMENT AND CONVENIENCE: Variable temperature selection from 35-85 °C. Display for operating the compressor and fan. Rotary selector for three fan stages: standard mode, setback mode, party mode. Button for rapid heat-up (boost function) in the event of increased DHW demand.

EFFICIENCY: The integral heat pump enables inexpensive DHW heating by recovering heat from the extract air. Low energy losses due to high grade thermal insulation. Designed with recycling in mind, the various components can be separated in an environmentally responsible manner.

INSTALLATION AND SERVICE: 3 kW connected load for DHW reheating. Suitable for installation with plastic, copper or stainless steel pipework systems. Protection rating IP 24.

SAFETY AND QUALITY: High grade magnesium anode. Internal steel cylinder with special „anticor“ enamel coating for a long service life. Automatic frost protection monitors the water temperature and prevents the cylinder from freezing.

- Compact appliances offering the following functions: Ventilation and DHW heating
- With facia to cover the air connections
- Optional air inlet in the installation room via the facia
- Automatic ventilation independent of tenant behaviour
- Easy calculation of additional costs
- Maintenance of the fabric of the building

Part No.	Model	Height	Width	Depth	Air flow rate
221470	LWA 100	1290 mm	510 mm	510 mm	60-130 m³/h

Specification

Model	LWA 100
Energy efficiency class, DHW heating (extract air), load profile M	A
Rated capacity	100 l
HP DHW temperature	55 °C
Max. DHW temperature	80 °C
Electric emergency/booster heater	3 kW
Nominal DHW temperature (EN 16147)	55 °C
Nominal load profile (EN16147)	M
Maximum available amount of DHW at 40 °C (EN 16147 / A20 extract air)	138 l
Average heating output (EN 16147 / A20 extract air)	0.80 kW
Heat-up time (EN 16147 / A20 extract air)	7,15 h
Average heat pump power consumption (EN 16147 / A20 extract air)	0.30 kW
Power consumption, standby period (EN 16147 / A20 extract air)	0,017 kW
Performance factor (EN 16147 / A20 extract air)	2.26
Air connector diameter	125 mm
Refrigerant	R290
Refrigerant capacity	0,15 kg
Application range min./max.	15...30 °C
Weight	65 kg
Sound power level (EN 12102)	45 dB(A)
Filter class	ISO Coarse > 30 % (G2)

Ventilation
Accessories, ventilation equipment with DHW heat pump

ACCESSORIES, VENTILATION EQUIPMENT WITH DHW HEAT PUMP

Outside temperature sensor

Accessory LWA 252
Accessories for the central ventilation devices, comprising the remote control and outside temperature sensor.

Part No.	Model
170328	Remote control RC 1
165339	Outside temperature sensor AFS 2

FMS LWA 100

Accessory LWA 100

Part No.	Model	Filter class	Quantity
221398	FMS LWA 100	ISO Coarse > 30 % (G2)	5

Ventilation
Ventilation device with heat recovery

LWZ 180/280

VENTILATION DEVICE WITH HEAT RECOVERY

LWZ 180/280 / Enthalpie

APPLICATION: Central ventilation unit with heat recovery for ventilating detached houses and small commercial properties.
EQUIPMENT/CONVENIENCE: Contemporary design with ergonomic programming unit and separate filter cover panel; can be used for detached houses and large apartments. Integral controller with multifunction display and seven-day program; can also be used as a remote control. Highly efficient backwards-curved fans with constant flow rate control. Highly efficient cross-countercurrent heat exchanger. Electric preheater in the form of a high performance heating coil. Bypass damper in supply air line; integral humidity sensor in extract air line. Straightforward filter replacement using combi filter cassettes. Fine dust filter available as accessory.
EFFICIENCY: Backwards-curved, constant flow rate fans with flow rate control ensure a balanced air flow, thereby promoting efficient operation.
INSTALLATION: Installation in dwellings, utility rooms, basement rooms, etc. The air connections are located at the top of the unit; easy access to the electrical connection panel without having to open the unit; duplex sheet steel casing; visible surface in alpine white with powder coated finish.

- Central ventilation and extract air system for optimum air quality
- Constant flow rate fan enables balanced air flow rate and ensures efficient operation
- Integral preheating coil for flow rate balancing during the winter months
- Integral moisture recovery (for the enthalpy version)
- Ergonomically designed programming unit for easy operation
- Option of using the programming unit as a remote control for controlling all functions

Part No.	Model	Height	Width	Depth	Air flow rate
232361	LWZ 180	997 mm	690 mm	534 mm	60-250 m³/h
232362	LWZ 280	997 mm	690 mm	534 mm	60-350 m³/h

Specification

Model	LWZ 180	LWZ 280
Energy efficiency class in average climates, time control	A	A
Energy efficiency class in average climates, central demand-dependent control	A	A
Heat availability level up to	94 %	94 %
Air connector diameter	160 mm	160 mm
Weight	78 kg	78 kg
Rated voltage	230 V	230 V
Fan power consumption	65 W	132 W
Filter class	ePM10 ≥ 50 % (M5) | ISO Coarse > 60 % (G4)	ePM10 ≥ 50 % (M5) | ISO Coarse > 60 % (G4)
Sound power level (EN 12102)	43 dB(A)	48 dB(A)

Ventilation
Ventilation device with heat recovery

LWZ 70 E

LWZ 170 E plus/LWZ 370 plus

LWZ 70-370 E plus

Compact devices for ventilating apartments and detached houses; heat recovery from the extract air via the cross counterflow heat exchanger; easily replaceable filter (G 3) for filtering the outside and the extract air; air duct connections at the top of the device; three optional air flow rates. Freestanding or wall mounted installation; casing made from zinc-plated and powder-coated sheet steel.

- Central ventilation and extract air system for optimum air quality
- Pollutants are continuously transported away from the living space
- Easy to adjust with constant flow rate fan
- Easy to program using the integral programming unit
- High heat recovery rate through cross-countercurrent heat exchanger

Part No.	Model	Height	Width	Depth	Air flow rate
233851	LWZ 70 E	600 mm	560 mm	290 mm	50-180 m³/h
233850	LWZ 170 E plus	765 mm	677 mm	567 mm	50-300 m³/h
232033	LWZ 370 plus	765 mm	677 mm	567 mm	50-400 m³/h

Specification

Model	LWZ 70 E	LWZ 170 E plus	LWZ 370 plus
Energy efficiency class in average climates, manual control	A	A	A
Energy efficiency class in average climates, time control	A	A	A
Energy efficiency class in average climates, central demand-dependent control	A	A	A
Heat availability level up to	90 %	90 %	90 %
Air connector diameter	125 mm	160 mm	180 mm
Weight	25 kg	38 kg	38 kg
Rated voltage	230 V	230 V	230 V
Filter class	ISO Coarse > 45 % (G3)	ISO Coarse > 45 % (G3)	ISO Coarse > 45 % (G3)
Sound power level (EN 12102)	46 dB(A)	44 dB(A)	54 dB(A)
Power consumption without preheater bank	1.48 A	0.5 A	0.7 A
Power consumption without preheater bank	136 W	132 W	172 W

Sound pressure level at nominal flow rate; stage 3 (EN 12102)

Ventilation
Ventilation device with heat recovery

LWZ 130

LWZ 130 / Enthalpie

APPLICATION: Central ventilation unit with heat recovery for ventilating apartments and small detached houses.
EQUIPMENT/CONVENIENCE: Compact design, optimised for installation in suspended ceilings; can be used for up to approx. 130 m² living space. Hardwired controller with multifunction display, integral humidity sensor and seven-day program, as a programming unit for wall mounting. Efficient constant flow rate fans, highly efficient cross-countercurrent heat exchanger made from PS, electric preheating via high performance heating coil, electronic bypass, simple filter change, with coarse dust filter in the extract air and medium dust filter, with option of fine dust filter, in the supply air.
EFFICIENCY: Constant flow rate fan enables balanced air flow rate and thereby optimises operation for efficiency.
INSTALLATION: Installation as a ceiling mounted appliance in residential units. The air connections are located on the r.h. and l.h. sides of the appliance. Easy access to the electrical connection panel without having to open the appliance. EPS casing with partial enclosure made from zinc-plated sheet steel. Termination on the room side by means of a service flap to be installed on site.

- Central ventilation and extract air system for optimum air quality
- Integral electric air preheater coil
- Integral moisture recovery (for the enthalpy version)
- Space saving installation in the ceiling
- Installation of the enthalpy version is simpler as there is no condensate drain

Part No.	Model	Height	Width	Depth	Air flow rate
237805	LWZ 130	248 mm	520 mm	1113 mm	50-180 m³/h
237806	LWZ 130 Enthalpie	248 mm	520 mm	1113 mm	50-180 m³/h

Specification

Model	LWZ 130	LWZ 130 Enthalpie
Energy efficiency class in average climates, time control	A	A
Energy efficiency class in average climates, central demand-dependent control	A	A
Heat availability level up to	94 %	89 %
Air connector diameter	125 mm	125 mm
Weight	18 kg	18 kg
Rated voltage	230 V	230 V
Fan power consumption	105 W	105 W
Filter class	ePM10 ≥ 50 % (M5) | ISO Coarse > 60 % (G4)	ePM10 ≥ 50 % (M5) | ISO Coarse > 60 % (G4)
Sound power level (EN 12102)	33 dB(A)	33 dB(A)

Ventilation
Accessories, ventilation device with heat recovery

LWF SDA 180/280

FEB

LWTF

Air quality sensor FEQ

LSK LWZ 70

ACCESSORIES, VENTILATION DEVICE WITH HEAT RECOVERY

Accessories for LWZ 180/280 / Enthalpie

Part No.	Model	Description
236039	FEB	Comfort programming unit for wall mounting
234147	FMS G4-10 180	Filter mat set, extract air ISO coarse < 60 % (G4), 10 pce
234148	FMK M5-2 180	Filter mat set, supply air ePM10 > 50 % (M5), 2 pce
234208	FMK F7-2 180	Filter mat set, supply air ePM1 > 50 % (F7), 2 pce
236420	LWTF 180/280	Replacement enthalpy heat exchanger

LWZ 70 E accessories

Accessories for the LWZ 170 E Plus and LWZ 370 plus central ventilation units.

Part No.	Model	Description
189800	FEQ	Programming unit with air quality control unit
185358	FEZ	Programming unit with time switch
234866	ZLWZ 4 S	Four-stage switch with LED
222446	FMS G3-10 70	Filter mat set, ISO coarse > 45 % (G3), 10 pce
227660	FMK F7-2 70	Filter mat set, ePM1 ≥ 50 % (F7), 2 pce
227046	LSK 70 E	Summer cassette
236038	ZLWZ VHR 70 E	Preheater coil 70E

Ventilation
Accessories, ventilation device with heat recovery

FMS G4-10 LWZ 100 Bypass

Extension, combi duct EPS

Accessory LWZ 100

Accessories for the central ventilation units, comprising installation accessories and a replacement filter set.

Part No.	Model	Description
223228	ZLWZ 100 G-DN100	Adaptor LWZ 100 to 2x DN 100
223230	Extension, combi duct EPS	EPS combi duct, DN 225, 645 mm long
231446	FMS G4-10 LWZ 100 Bypass	Filter mat set bypass G4, 10 pce
231447	FMS G4-10 LWZ 100 ABL	Filter mat set extract air G4, 10 pce
231448	FMK M5-2 LWZ 100 ZUL	Filter cassette set M5, 2 pce
231449	FMK F7-2 LWZ 100 ZUL	Filter cassette set F7, 2 pce

FMS G4-10 LWZ 100 Bypass

Accessories for LWZ 130 / Enthalpie

Part No.	Model	Description
238923	FMS G4-10 130/135	Filter mat set, ISO coarse > 60 % (G4), 10 pce
238924	FMK M5-2 130/135	Filter mat set, ePM10 > 50 % (M5), 2 pce
238925	FMK F7-2 130/135	Filter mat set, ePM1 ≥ 50 % (F7), 2 pce

Ventilation

Demand-dependent ventilation appliances without heat recovery

		LA 60 U Trend	LA 60 UB Trend	LA 60 A Trend	LA 60 AB Trend	LA 60 U Plus	LA 60 UB Plus	LA 60 A Plus	LA 60 AB Plus
Fan units									
LA 60 VE-U - 201450 (fan unit with smooth internal panel for casing for unfinished walls)		•	•			•	•		
LA 60 VE-A - 201451 (fan unit with casing and smooth internal panel for installation on finished walls)				•	•			•	•
Casing for LA 60 VE-U and fire protection accessories for LA 60 VE-A									
LA 60 G-U - 201448 (casing for unfinished walls is plastic and without fire protection)		•				•			
LA 60 G-UB - 201449 (casing for unfinished walls made of calcium silicate with fire protection function)			•				•		
LA 60 BRA - 201452 (shut-off fitting for fire protection)					•				•
Controllers									
ZLA 60-T - 201453 (Control module with adjustable start delay and time run-on)		•	•	•	•				
ZLA 60-H - 201454 (Control module with adjustable humidity sensor, fixed start delay and run-on time)						•	•	•	•

Ventilation
Demand-dependent ventilation appliances without heat recovery

LA 60 VE-U

LA 60 VE-A

DEMAND-DEPENDENT VENTILATION APPLIANCES WITHOUT HEAT RECOVERY

LA 60 fan units

APPLICATION: Fan units for installation on finished and unfinished walls for ventilating internal rooms with no external windows.

EQUIPMENT/CONVENIENCE: The casing, the internal panel and the filter holder are made from high grade white plastic. The modular structure with plug-in control module allows flexibility when selecting the range of functions for the extract air unit. Retrospective replacement of the control module while installed is also possible.

EFFICIENCY: The fan unit has a precision external rotary motor.

INSTALLATION: Depending on the selected version, the appliances are suitable for flush installation in walls and ceilings or surface mounting. The electrical connection of the fan unit is easily accessible.

- Fan unit for single ventilation units to DIN 18017-3
- Casings available for installation on finished and unfinished walls
- Casing available with or without fire protection function
- Control via adjustable start delay and time run-on (Trend version)
- Control via adjustable humidity sensor (Plus version)
- Easy to install single room solution

Part No.	Model	Description	Air flow rate
201450	LA 60 VE-U	Fan unit with smooth internal panel for casing for unfinished walls	0/30/60 m³/h
201451	LA 60 VE-A	Fan unit with smooth internal panel for installation on finished walls	0/30/60 m³/h

Specification

Model	LA 60 VE-U	LA 60 VE-A
Air flow rate	0/30/60 m³/h	0/30/60 m³/h
Max. power consumption	25 W	25 W
Rated voltage	230 V	230 V
Frequency	50 Hz	50 Hz
Sound power level L_{wa}	38 dB(A)	42 dB(A)
Filter class	ISO Coarse > 45 % (G3)	ISO Coarse > 45 % (G3)
IP-Rating	IPX5	IPX5
Permissible safety zone	1, 2, 3	1, 2, 3
Height	260 mm	270 mm
Width	260 mm	270 mm
Depth	49 mm	136 mm
Weight	2.0 kg	2.5 kg

Casing for installation on unfinished walls, control system or fire protection equipment for surface mounted version must be ordered separately.
The stated sound power levels refer to the maximum air flow rate.

Ventilation
Demand-dependent ventilation appliances without heat recovery

LA 60 VE-U

LA 60 for installation on unfinished walls

Overview of materials for the LA 60 variants for installation on unfinished walls. A complete appliance comprises fan unit, casing and control system.

- Suitable for installation in walls and ceilings
- Suitable for top, bottom, right or left blow-out direction

Part No.	Model	Description	Height	Width	Depth
201450	LA 60 VE-U	Fan unit with smooth internal panel for casing for unfinished walls	260 mm	260 mm	49 mm
201448	LA 60 G-U	Casing for unfinished walls, made of plastic without fire protection function	245 mm	245 mm	78 mm

LA 60 G-U

LA 60 G-UB

LA 60 VE-A

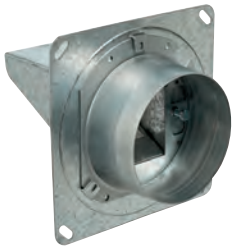
LA 60 for installation on finished walls

Overview of materials for LA 60 variants for finished walls. The complete appliance comprises the fan unit, control system and, if a fire protection function is required, the optional shut-off fitting.

- Suitable for wall mounting
- Rearward blow-out direction

Part No.	Model	Description	Height	Width	Depth
201451	LA 60 VE-A	Fan unit with smooth internal panel for installation on finished walls	270 mm	270 mm	136 mm

LA 60 BRA



Ventilation
Demand-dependent ventilation appliances without heat recovery

ZLA 60-T

LA 60 control systems

Control systems for connecting to the fan units. The control systems offer different functionalities. The control system can be changed retrospectively, even while installed.

- Control via adjustable start delay and time run-on (Trend version)
- Control via adjustable humidity sensor (Plus version)

Part No.	Model	Description
201453	ZLA 60-T	Control module with adjustable start delay and time run-on
201454	ZLA 60-H	Control module with humidity sensor, fixed start delay and run-on time

ZLA 60-H

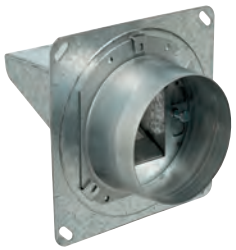
FMS G2-5 LA 60

Accessories for LA 60

Accessories for demand-dependent ventilation units.

Part No.	Model	Description
231104	LWF W 100 VA - 60	Wall duct DN 100, natural stainless steel for LA 60
201455	FMS G2-5 LA 60	Filter mat set, ISO coarse > 30 % (G2), 5 pce.

LA 60 BRA



LWF W 100 VA - 60

Ventilation
Decentralised ventilation units with heat recovery

VLR 70 S Trend

VLR 70 L Trend

DECENTRALISED VENTILATION UNITS WITH HEAT RECOVERY

NEW

VLR 70

APPLICATION: Decentralised ventilation unit with heat recovery for ventilating apartments and small commercial properties.
EQUIPMENT/CONVENIENCE: Modern design with separate programming unit; can be used for up to approx. 100 m² living space. Axial fan with stable backpressure, suitable for use even in locations exposed to the wind. With efficient aluminium heat exchanger and external panel that is watertight against heavy rain. Straightforward filter replacement via easy to remove fan unit. Fine dust filter available as an accessory. White powder coated stainless steel external panel. Internal panel matt white. The specified max. power consumption refers to 2 appliances including controller.
EFFICIENCY: EC fan ensures efficient operation.
INSTALLATION: Installation in round or square wall outlets. Easily accessible electrical connection on the inside of the fan unit.

- Decentralised ventilation unit with heat recovery for new build and modernisation
- Powerful, easy to clean aluminium heat exchanger
- Very good filter effect due to filters on the inside and outside
- Quiet operation
- Up to 8 fans can be combined with a single control unit
- Contemporary EC fan ensures stable air flow rates even in locations which are exposed to wind

Part No.	Model
200002	VLR 70 S Trend EN
201458	VLR 70 L Trend EN

Specification

Model	VLR 70 S Trend EN	VLR 70 L Trend EN
Heat availability level up to	74 %	88 %
Filter class	ISO Coarse > 60 % (G4) | ISO Coarse > 30 % (G2)	ISO Coarse > 60 % (G4) | ISO Coarse > 30 % (G2)
Sound power level L_{wtl} relative to air flow rate	35 (at 20 m³/h) dB(A)	35 (at 20 m³/h) dB(A)
Rated voltage	24 V	24 V
IP-Rating	IP21	IP21
Height	285 mm	285 mm
Width	360 mm	360 mm
Depth	590 mm	780 mm
Weight	5.2 kg	5.2 kg

For sale in countries outside Europe. Sale in European countries on request.
Note the accessories required for operation and control
All air flow rate data is applicable for a single ventilation unit

Accessories VLR 70

Accessories for the decentralised ventilation unit with heat recovery. The control sets consist of a control unit, power supply unit, programming unit and installation accessories.

Part No.	Model
239570	VLR 70-2 CU
239571	VLR 70-4 CU
239572	VLR 70-8 CU
239562	VLR 70 RF COARSE 30 G2-4
239575	VLR 70 RF COARSE 60 G4-4
239576	VLR 70 RF EPM10 50 M5-4
239577	VLR 70 RF EPM1 50 F7-4

Ventilation
Accessories for ventilation systems

ACCESSORIES FOR VENTILATION SYSTEMS

ALD 160

Decentralised ventilation air valves for integration into a wall

Ventilation air valves for decentralised air supply, made from plastic with weather grille, air pressure protection and filter. Can be closed manually for wall installation.

- With integral noise attenuating elements
- Easy to clean

Part No.	Model	For nominal diameter
189813	ALD 160	160 mm

Required ALD accessories: Installation pipe DN 160 (part no. 189816)

Accessories, decentralised ventilation air valves

Accessories for decentralised external wall valves for fitting into walls and replacement filter sets.

Part No.	Model	Description
189816	Installation pipe ALD	Casing for unfinished walls made of calcium silicate with fire protection function

LWF LG 125

Ventilation grille

Ventilation grille for routing the outside and expelled air through the external wall.

Part No.	Model	Description	Connection diameter	Max. air volume
234505	AWG 160 R	Thermally insulating EPS wall outlet incl. weather grille with drip edge	160 mm	350 m³/h

Wall outlet AWG 160 R, 160 VA and air grille 125/160: 2 pce are required for centralised ventilation appliances with heat recovery

Notes

Solar

Solar
High performance flat-plate collector for rooftop installation

SOL 27 premium S

SOL 27 premium W

011-7S1294 F

HIGH PERFORMANCE FLAT-PLATE COLLECTOR FOR ROOFTOP INSTALLATION

DISCONT. PRODUKT

High performance flat-plate collector (rooftop) SOL 27 premium

The collector is available for vertical and horizontal installation and thus designed specifically for the relevant application. The laser-welded aluminium full area absorber with copper harp is provided with highly selective vacuum coating (Miro-Therm). The hydraulic connection between collectors is made by means of a plug-in connector system. An anti-reflection safety glass cover protects the absorber and guarantees a high level of transmission. The collector is insulated on the sides and back panel with low outgassing mineral wool (black backed). Its main characteristic is low thermal conductivity. The hydraulic connection between collectors is made by means of a plug-in connection system. Operating the collectors with a prepared water:glycol mixture (H-30 L) provides the essential frost protection. The collector casing is made from seawater-resistant aluminium.

- High efficiency
- PROFI CLICK ® connection technology
- Easy plug-in connection
- Anti-reflective glass
- Various installation options
- Attractive design
- Highly selectively coated absorber for highest efficiency
- Laser-welded joint between absorber and harp for low loss heat transfer
- Highly efficient thermal insulation prevents heat losses

Part No.	Model	Suitable for
230016	SOL 27 premium S	vertical installation
230017	SOL 27 premium W	vertical installation

Availability: As long as stock lasts

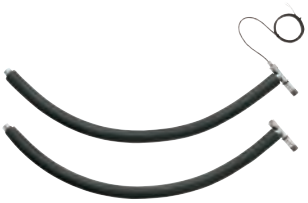
Specification

Model	SOL 27 premium S	SOL 27 premium W
Version	Aufdach	Aufdach
Type	Vertical	Horizontal
Angle of inclination	20°...85°	20°...85°
Collector connection	22 mm plug-in connection	22 mm plug-in connection
Total area	2.54 m²	2.54 m²
Aperture area	2.39 m²	2.39 m²
Absorber area	2.38 m²	2.38 m²
Max. idle temperature	>210 °C	>210 °C
Liquid content	1.50 l	1.83 l
Max. operating pressure	0.60 MPa	0.60 MPa
Nominal volume flow	50...300 l/h	50...300 l/h
Pressure drop at 300 l/h	0.0037 MPa	0.0028 MPa
Height	2171 mm	1171 mm
Width	1171 mm	2171 mm
Depth	96 mm	96 mm
Weight	40.00 kg	40.50 kg
Efficiency	82,3 %	82,5 %

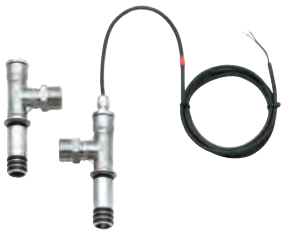
Solar
High performance flat-plate collector for rooftop installation

SOL SV-A

SOL SV-D



SOL SV-F



DISCONT. PRODUKT

Hydraulic connection accessory SOL 27 premium

The PROFI CLICK® connection accessories range comprises various push-fit connections designed for the relevant application. The SOL SV-A and SOL SV-A 50 push-fit connections serve to provide hydraulic connection between two rooftop collectors. The SOL SV-D push-fit connection is designed specifically for rooftop installation. A 1000 mm insulated corrugated hose is factory-fitted to ensure a quick and reliable hydraulic connection to the pipework. The SOL SV-F push-fit connection is designed for hydraulic connection of a collector assembly installed on a flat roof or on a wall. With both push-fit connections (SOL SV-D, SOL SV-F), a collector sensor well and temperature sensor PT 1000 are factory-fitted. An air vent valve is also integrated. The fixing clips included in the standard delivery enable secure installation without tools.

- All important components for the source side are factory fitted
- Faster installation
- Secure hydraulic connection
- Easy installation
- Installation without tools

Part No.	Model	Suitable for
230185	SOL SV-A	Premium rooftop collectors
231322	SOL SV-A50	Premium rooftop collectors, vertical
230186	SOL SV-D	Premium rooftop collectors
230913	SOL SV-F	Premium rooftop collectors

Availability: As long as stock lasts

PROFI CLICK

Solar
High performance flat-plate collector for rooftop installation

SOL 27 basic

SOL 27 basic W

011-7S1294 F

DISCONT. PRODUKT

High performance flat-plate collector for rooftop installation SOL 27 basic

The collector is available for vertical and horizontal installation and thus designed specifically for the relevant application. The laser-welded aluminium full area absorber with copper harp is provided with highly selective vacuum coating (Miro-Therm). The connections are at the sides (l.h. side G 3/4 A, r.h. side G 3/4). The collector is insulated on the sides and back panel with low outgassing mineral wool (black backed). Its main characteristic is low thermal conductivity. Operating the collectors with a premixed water:glycol mixture H-30 L provides the essential frost protection. The collector casing is made from seawater-resistant aluminium.

- Hydraulic connection between the collectors factory-fitted
- Up to 5 collectors can be hydraulically connected in series
- Low weight
- Attractive design
- Low height

Part No.	Model	Suitable for
228927	SOL 27 basic	horizontal installation
230912	SOL 27 basic W	horizontal installation

Availability: As long as stock lasts

Specification

Model	SOL 27 basic	SOL 27 basic W
Version	Aufdach	AufdachRooftop
Type	Vertical	Horizontal
Angle of inclination	20°...85°	20°...85°
Collector connection	G 3/4	G 3/4
Total area	2.53 m²	2.53 m²
Aperture area	2.39 m²	2.39 m²
Absorber area	2.38 m²	2.38 m²
Max. idle temperature	213 °C	213 °C
Max. operating pressure	0.60 MPa	0.60 MPa
Liquid content	1.30 l	1.70 l
Nominal volume flow	50...300 l/h	50...300 l/h
Pressure drop at 300 l/h	0.0035 MPa	0.002 MPa
Height	2168 mm	1168 mm
Width	1168 mm	2168 mm
Depth	93 mm	93 mm
Weight	38.50 kg	39.20 kg
Efficiency	79 %	79 %

KTH basic

Corrugated stainless steel hose

DISCONT. PRODUKT

Hydraulic connection accessory SOL 27 basic

The collector sensor well KTH basic with G ¾ on both sides is specifically designed for collectors of the Basic series. The thermally insulated stainless steel corrugated hose is provided (standard delivery 2 pce) for connection of the collectors on the heat transfer medium side, e.g. on pitched roofs. This is also used as a roof outlet. The thermal insulation consists of a temperature and UV-resistant EPDM hose. Two hoses are part of the standard delivery.

Part No.	Model	Suitable for
229322	KTH basic	SOL 27 basic I W
073469	Corrugated stainless steel hose	Basic collectors, horizontal

Availability: As long as stock lasts

Solar
Fixing accessory, flat-plate collector (rooftop)

FIXING ACCESSORY, FLAT-PLATE COLLECTOR (ROOFTOP)

SOL SBP-S

SOL SBP-W

SOL SBP-WE

DISCONT. PRODUKT

Quick fixing system

The quick-acting fixing system enables a fast and secure installation of rooftop collectors on pitched roofs with pantiles. In the case of the vertical and horizontal installation side by side, the quick-acting fixing system is fitted without tools, thereby reducing the installation effort. Prefitted components make handling easier and further reduce the installation time. The flexible collector installation system, together with the collectors matched to the specific orientation, enables collectors to be installed vertically, horizontally and horizontally one above the other. Use the SOL SBP-S for vertical installation side by side. The SOL SBP-W is required for horizontal installation side by side. To enable horizontal installation one above the other, the SOL SBP-WE is used as extension kit together with the SOL SBP-W as standard set.

- Installation without tools (SOL SBP-S | SOL SBP-W)
- Faster installation
- Flexible installation options
- Easy and reliable installation
- With PROFI CLICK® push-fit connections for complete rooftop installation without tools
- Pre-assembled components save time
- Suitable for tiles with level corrugation valley.

Part No.	Model	Suitable for
231980	SOL SBP-S	Rooftop collectors
231981	SOL SBP-W	Premium rooftop collectors, horizontal; basic collectors, horizontal
231982	SOL SBP-WE	Premium rooftop collectors, vertical

Availability: As long as stock lasts

SOL BP

SOL BW

SOL BS

DISCONT. PRODUKT

Fixing sets

The fixing sets SOL BP (tiled roof), SOL BW (corrugated roof), SOL BS (slate/shingle cover), SOL BB (plain tile) and SOL BB-CU (copper) enable installation on pitched roofs. For fixing on flat roofs, the fixing sets SOL BF-S (on-end installation) and SOL BF-W (across installation) are provided.

Part No.	Model	Suitable for
230175	SOL BP	Rooftop collectors
231998	SOL BW	Rooftop collectors
230189	SOL BS	Rooftop collectors
230177	SOL BF-S	Rooftop collectors, vertical
230178	SOL BF-W	Rooftop collectors, horizontal

Availability: As long as stock lasts

SOL BF-S

SOL BF-W

SOL BB

SOL BB-Cu

Solar
Fixing accessory, flat-plate collector (rooftop)

SOL R2

DISCONT. PRODUKT

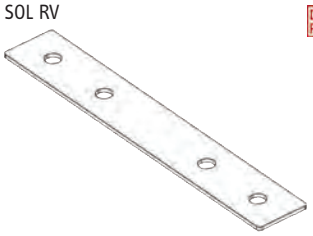
Mounting frame

In combination with the fixing sets, the mounting frames SOL R1 and SOL R2 enable on-end installation of the collectors next to each other. The SOL R1 W is specifically designed for across installation of the collectors next to and above each other.

Part No.	Model	Suitable for
230169	SOL R1	Premium rooftop collectors, basic collectors
230920	SOL R1 W	Premium rooftop collectors, basic rooftop collectors, horizontal
230170	SOL R2	Premium rooftop collectors, vertical; basic rooftop collectors, vertical

Availability: As long as stock lasts

SOL RV



DISCONT. PRODUKT

Frame connection sets

The frame connection sets ensure secure connection of two mounting frames. The frame connection set SOL RV should be used for connection in the case of on-end installation and across installation next to each other. For across installation above each other, RV-W should be selected.

Part No.	Model	Suitable for
230171	SOL RV	Rooftop collectors
230172	SOL RV-W	Premium rooftop collectors, vertical

Availability: As long as stock lasts

SOL RV-W

SOL RA

DISCONT. PRODUKT

Frame support

The frame support enables the on-end installation angle to be matched to 15°, 22° or 30°. For across installation, matching to 30° is possible.

Part No.	Model	Suitable for
230173	SOL RA	Rooftop collectors

Availability: As long as stock lasts

SOL AL-S SOL AL-W

DISCONT. PRODUKT

Cover strips

The cover strips SOL AL-S and SOL AL-W are designed to cover the spaces between the rooftop flat-plate collectors of the Premium series. The SOL AL-S is required for vertical installation side by side, as well as for horizontal installation one above the other. The SOL AL-W is designed for horizontal installation side by side.

Part No.	Model	Suitable for
230931	SOL AL-S	Premium rooftop collectors, vertical
230932	SOL AL-W	Premium rooftop collectors, horizontal

Availability: As long as stock lasts

Solar
High performance flat-plate collector for roof integration

SOL 23 premium

011-7S1294 F

HIGH PERFORMANCE FLAT-PLATE COLLECTOR FOR ROOF INTEGRATION

DISCONT. PRODUKT

SOL 23 premium high performance flat-plate collector for roof integration

The collector is specifically designed for vertical roof integration. The premium collector is set into a roof in place of conventional roof tiles (e.g. double Roman tiles). The flashing frames fitted to the collector reduce installation time and ensure the roof remains watertight. The laser-welded aluminium full area absorber is provided with highly selective vacuum coating (Miro-Therm). The collector is insulated on the sides and back panel with low outgassing mineral wool (black backed). Its main characteristic is low thermal conductivity. The hydraulic connection between collectors is made by means of a plug-in connection system. The collector connections at the top allow space-saving installation of several collectors side by side, flush with the wall. An anti-reflection safety glass cover protects the absorber and guarantees a high level of transmission. Operating the collectors with a prepared water:glycol mixture (H-30 L) provides the essential frost protection. The collector casing is made from seawater-resistant aluminium.

- High efficiency
- Flashing frame factory-fitted
- PROFI CLICK ® connection technology
- Easy plug-in connection
- Anti-reflective glass
- Various installation options
- Attractive design
- Visually attractive roof integration
- No hydraulic connections visible
- Highly selectively coated absorber for highest efficiency
- Laser-welded joint between absorber and harp for low loss heat transfer
- Highly efficient thermal insulation prevents heat losses

Part No.	Model
230020	SOL 23 premium

Availability: As long as stock lasts

Specification

Model	SOL 23 premium
Version	Roof integration
Type	Vertical
Angle of inclination	45°...80°
Collector connection	22 mm plug-in connection
Total area	2.63 m²
Aperture area	2.04 m²
Absorber area	2.03 m²
Max. idle temperature	218 °C
Liquid content	1.2 l
Max. operating pressure	0.6 MPa
Nominal volume flow	50...300 l/h
Pressure drop at 300 l/h	0.0037 MPa
Height	2340 mm
Width	1155 mm
Depth	102 mm
Weight	54 kg
Efficiency	81 %

Solar
High performance flat-plate collector for roof integration

SOL SV-I

SOL SV-R

DISCONT. PRODUKT

Hydraulic connection accessory SOL 23 premium

The PROFI CLICK® connection accessories for roof integration collectors comprising two push-fit connections designed for the specific application. The SOL SV-I push-fit connection provides the hydraulic connection of two collectors that are integrated into the roof one above the other. An air vent valve is already integrated. The SOL SV-R push-fit connection is used for the hydraulic connection of a collector assembly. To ensure quick hydraulic connection to the pipework, an insulated corrugated hose, the collector sensor well and a temperature sensor are factory-fitted. An air vent valve is also integrated. The push-fit connection is only required if more than 5 collectors for roof integration are installed next to each other. The fixing clips included in the standard delivery enable secure installation without tools.

- All important components for the source side are factory fitted
- Faster installation
- Easy installation
- Secure hydraulic connection

Part No.	Model	Suitable for
230187	SOL SV-I	Premium roof integration collector
230188	SOL SV-R	Premium roof integration collector

Availability: As long as stock lasts

Solar
Fixing accessory, flat-plate collector (roof integration)

FIXING ACCESSORY, FLAT-PLATE COLLECTOR (ROOF INTEGRATION)

SOL AZ

DISCONT. PRODUKT

SOL 23 premium fixing accessories

The side flashing set SOL AS is designed to join the collector arrays to the existing roof cover. The flashing is fitted to the side of the collector array (left and right) to seal the roof securely against precipitation. One of these sets is required per collector assembly. The standard delivery also includes the plug-in connection SOL SV-R for the hydraulic connection of a collector assembly. The SOL AZ cover extension is used for two collectors installed one above the other, in the transition from the lower to the upper collector. The extension conceals collector connections and hydraulic lines.

Part No.	Model	Suitable for
230184	SOL AS	Premium roof integration collector
230183	SOL AZ	Premium roof integration collector

Availability: As long as stock lasts

SOL AS

Solar
Solar system controllers

SOLAR SYSTEM CONTROLLERS

SOM 7 E plus

DISCONT. PRODUKT

SOM 7 E plus solar control unit

The solar control unit is used with standard solar thermal systems for DHW heating and/or central heating backup. The temperature differential controller is designed for two consumers. Pre-defined system configurations can be selected. In addition to pictograms for easy-to-understand information on the function and operating conditions of the appliance, the multi-functional combination display shows the selected system configuration in graphic form. The display is backlit. Includes 4 temperature sensors PT1000, spare fuse, screws and rawl plugs, 4 strain relief fittings and heat conducting paste. The collector sensor well must be ordered separately.

- Up to two consumers
- Function check
- Heat statement
- Maximum cylinder temperature
- Collector cooling function
- Collector emergency stop
- Tube collector function
- Energy saving power supply technology
- Pasteurisation program
- Semi-conductor relay for variable speed solar circuit pumps

Part No.	Model	Number of standard systems	Consumer
234785	SOM 7 E plus	10	2

Availability: As long as stock lasts

Specification

Model	SOM 7 E plus
Height	166 mm
Width	110 mm
Depth	47 mm
Phases	1/N/PE
Rated voltage	100...240 V
Frequency	50...60 Hz
Relay capacity	1 (1) A
Total switching current	4 A
IP-Rating	IP20
Number of inputs	4
Number of switched outputs	2
High efficiency pump control	x

Solar
Solar system controllers

SOM 8 plus

DISCONT. PRODUKT

Solar control unit SOM 8 plus

The SOM 8 plus solar control unit is used in complex solar thermal systems. Up to 5 systems for DHW heating can be controlled at the same time. Central heating backup and solar swimming pool heating are also possible. Two weather-compensated heating circuits can be controlled independently of each other. The predefined selection functions simplify the system parameter settings. The four PWM outputs enable variable speed control of high efficiency pumps. A heat statement for 3 system circuits is possible when V40 flow meters are connected. As an alternative, the heat statement can be prepared with a default flow rate value with 7 system circuits. The large, backlit, full graphic display shows statement and curve diagrams. It is operated via 7 pushbuttons. Data can be recorded using an SD card adaptor slot. The energy saving switching power supply unit enables a low standby power consumption of < 1 W.

- 15 inputs for PT 1000 sensor
- 14 semiconductor relays, of which 1 floating changeover relay
- 4 PWM outputs for speed control of high efficiency pumps
- Predefined functions
- SD card slot for data recording
- Real-time clock
- Heat statement or metering
- Data output (VBUS)
- Function check
- Pasteurisation program
- Semi-conductor relay for variable speed solar circuit pumps

Part No.	Model	Consumer
230933	SOM 8 plus	5

Availability: As long as stock lasts

Specification

Model	SOM 8 plus
Height	200 mm
Width	253 mm
Depth	43 mm
Phases	1/N/PE
Rated voltage	100...240 V
Frequency	50...60 Hz
Relay capacity	1 (1) A
Total switching current	6,3 A
IP-Rating	IP20
Number of inputs	15
Number of switched outputs	14

Solar
Controller accessories

CONTROLLER ACCESSORIES

PT 1000

DISCONT. PRODUKT

Temperature sensor PT 1000

Accessories for solar control units, sensor diameter 6 mm, tolerance DIN class B, ICE 75 I, lead material silicone, lead lengths 1450 mm, operating temperature -50 to +180 °C.

Part No.	Model	Suitable for
165818	PT 1000	all solar controllers

Availability: As long as stock lasts

DISCONT. PRODUKT

Sensor pack HKM

The HKM (heating circuit mixer) sensor pack contains the outside temperature sensor, the flow sensor and the remote adjuster.

Part No.	Model	Suitable for
187872	HKM	SOM 8

Availability: As long as stock lasts

SOM WMZ SOL

DISCONT. PRODUKT

Heat meter SOM WMZ SOL

Universal heat meter for solar thermal systems and conventional heating systems. The heat meter captures both the temperature and the mixing ratio of water and glycol. The flow and return temperatures are captured by two PT 1000 temperature sensors. The LCD can show the temperature at a specific test point, the heat absorbed, the current output and the system flow rate.

› Standard delivery: Heat meter, temperature sensor, sensor well, flow meter

Part No.	Model
227729	SOM WMZ SOL

Availability: As long as stock lasts

V 40

DISCONT. PRODUKT

Flow meter V 40

The V40 volumeter is supplied by the controller; it measures the flow rate 0...99 l/gal (steps of 0.1 l/gal), volume proportion glycol 0...70% (1% steps).

Part No.	Model	Suitable for
170497	V 40	SOM 8, SOM WMZ SOL

Availability: As long as stock lasts

Specification

Model	V 40
Connection	R ¾
Rated flow	25 l/min
Cable length	1,4 m

Solar
Solar compact installations

SOKI E Trend

SOLAR COMPACT INSTALLATIONS

DISCONT. PRODUKT

Solar compact installation SOKI E trend

Thermally insulated solar compact installation as single line version. The SOKI basic can be wall mounted or installed directly onto the floorstanding solar cylinder in conjunction with a cylinder connection set. Further equipment includes a safety valve, gravity brake, thermometer, pressure gauge, visual flow meter, flushing and filling device and a wall mounting bracket.

- Up to 16 collectors can be used
- Integral cable ducts for wiring
- Easy installation

Part No.	Model	Circulation pump type
234783	SOKI E Trend	Wilo Yonos PARA RSTG 15/1-7.5

Availability: As long as stock lasts

Specification

Model	SOKI E Trend
Height	380 mm
Width	228 mm
Depth	150 mm
Power consumption	4...75 W
Max. operating temperature	120 °C
Max. permissible pressure	0.6 MPa
Connection, pipe	Rp ¾
Expansion vessel connection	G ¾
Safety valve connection	Rp ¾
Flow meter display	1-15 l/min
Weight	4.4 kg
Phases	1/N/PE
Rated voltage	230 V
Frequency	50/60 Hz

Solar
Solar compact installations

SOKI 7 E plus

DISCONT. PRODUKT

SOKI 7 E plus solar compact installation

Thermally insulated solar compact installation as single line version with integral solar controller. Power cable with plug is factory-fitted. The compact installation can be wall mounted or installed directly onto the floorstanding solar cylinder in conjunction with a cylinder connection set. Further equipment includes a safety valve, gravity brake, thermometer, pressure gauge, visual flow meter, flushing and filling device and a wall mounting bracket.

- Up to 16 collectors can be used
- Integral solar control unit
- The devices are fully wired, ready to plug in
- Integral cable ducts for wiring

Part No.	Model	Circulation pump type	Integral control unit
234784	SOKI 7 E plus	Wilo Yonos PARA RSTG 15/1-7.5	SOM 7 E plus

Availability: As long as stock lasts

Specification

Model	SOKI 7 E plus
Height	564 mm
Width	306 mm
Depth	150 mm
Power consumption	4...75 W
Max. operating temperature	120 °C
Max. permissible pressure	0.6 MPa
Connection, pipe	Rp ¾
Expansion vessel connection	G ¾
Safety valve connection	Rp ¾
Flow meter display	1-15 l/min
Weight	5.3 kg
Phases	1/N/PE
Rated voltage	230 V
Frequency	50/60 Hz

SOKI SAS

DISCONT. PRODUKT

Cylinder connection set SOKI SAS

The SOKI SAS cylinder connection set enables simple mounting of the single line solar compact installation on the type SBB...basic/plus solar cylinder.

- Integral gravity brake
- Contact sensor holder
- Thermal insulation as part of the standard delivery
- Additional thermometer for the collector flow

Part No.	Model	Suitable for
231987	SOKI SAS	SOKI E trend, SOKI 7 E plus

Availability: As long as stock lasts

Solar
DHW cylinder

DHW CYLINDER

SBB 300 plus

DISCONT. PRODUKT

DHW cylinder SBB 300-600 plus

APPLICATION: Solar DHW cylinder, for use in detached and two-family houses and apartment buildings, depending on the nominal capacity and heat transfer surface area. A second heat generator can be integrated for reheating.

EQUIPMENT: Enamelled steel cylinder with directly applied foam insulation, equipped with a magnesium signal anode for additional corrosion protection. Two internal indirect coils for solar connection and an additional heat generator. With inspection flange inside the cylinder for optional fitting of an additional indirect coil or flanged immersion heater and plug-in dial thermometer included in the standard delivery. Cylinder casing consisting of outer plastic jacket in pure white, plus cylinder cover and plinth trim in grey.

EFFICIENCY: Low standby losses due to highly effective thermal insulation. Large amounts of mixed water due to matched inlet and outlet technology.

- Enamelled steel with directly applied foam insulation and magnesium signal anode for additional corrosion protection
- Accessories such as indirect coils, flanged immersion heaters or threaded immersion heaters can be installed

Part No.	Model	Rated capacity	Height	Diameter incl. thermal insulation
187873	SBB 300 plus	305 l	1679 mm	700 mm
187874	SBB 400 plus	416 l	1848 mm	750 mm
187875	SBB 600 plus	611 l	1735 mm	920 mm

Availability: As long as stock lasts

Specification

Model	SBB 300 plus	SBB 400 plus	SBB 600 plus
Energy efficiency class	C	C	
Standby energy consumption/24 h at 65 °C	1.9 kWh	2.2 kWh	2.9 kWh
Surface, indirect coil, top	1.1 m²	1.3 m²	1.8 m²
Surface area, lower indirect coil	1.5 m²	1.7 m²	2.6 m²
Flanged aperture	210 mm	210 mm	210 mm
Height of unit when tilted	1820 mm	1995 mm	1965 mm
Max. recommended collector aperture area	6 m²	8 m²	12 m²
Weight	154 kg	187 kg	260 kg

The max. recommended collector aperture area relates to STIEBEL ELTRON flat-plate collectors.

SB-VTS 300/3

NEW

DHW cylinder SB-VTS 200-500/3

APPLICATION: Solar DHW cylinder, for use in detached and two-family houses and apartment buildings, depending on the nominal capacity and heat transfer surface area. A second heat generator can also be integrated for reheating.

EQUIPMENT: Enamelled steel cylinder with directly applied foam insulation and sheet metal jacket, equipped with a magnesium anode for additional corrosion protection. Two internal indirect coils for solar connection and an additional heat generator. Plug-in dial thermometer included in the standard delivery.

- Enamelled cylinder interior for solar thermal DHW heating
- Protective anode as standard
- Insulated with directly applied foam in the form of a sheet metal jacket

Part No.	Model	Rated capacity	Height	Diameter incl. thermal insulation
200162	SB-VTS 200/3	191 l	1574 mm	550 mm
200163	SB-VTS 300/3	291 l	1552 mm	650 mm
200164	SB-VTS 400/3	407 l	1543 mm	750 mm
200165	SB-VTS 500/3	488 l	1813 mm	750 mm

Specification

Model	SB-VTS 200/3	SB-VTS 300/3	SB-VTS 400/3	SB-VTS 500/3
Energy efficiency class	C	C	C	C
Standby energy consumption/24 h at 65 °C	1.5 kWh	2.2 kWh	2.5 kWh	2.7 kWh
Surface, indirect coil, top	0.6 m²	0.6 m²	0.7 m²	1 m²
Surface area, lower indirect coil	0.9 m²	1.5 m²	1.9 m²	2.3 m²
Flanged aperture	180 mm	180 mm	180 mm	180 mm
Height of unit when tilted	1700 mm	1730 mm	1700 mm	1970 mm
Max. recommended collector aperture area	4 m²	6 m²	10 m²	12 m²
Weight	98 kg	130 kg	195 kg	225 kg

Solar
DHW cylinder

SBBE WP (SOL)

DHW cylinder SBBE 401/501 WP SOL

APPLICATION: DHW cylinder for heat pump operation, for use in detached houses, two-family houses and apartment buildings, depending on the nominal capacity and heat transfer surface area. Optional integration of solar thermal backup possible with „SOL“ types.

EQUIPMENT: Enamelled steel cylinder with directly applied foam insulation, equipped with a controlled impressed current anode for additional corrosion protection. One internal indirect coil for connecting a heat pump and another for solar connection in relation to „SOL“ types. With inspection flange inside the cylinder, can be fitted with an optional flanged immersion heater behind the front fascia. Recessed grips to facilitate handling. Equipped with temperature sensor for connection to the heat pump control unit and temperature shown on the display. Hydraulic connections arranged to the rear; can be rerouted to the top using accessory assemblies. Cylinder casing consisting of two plastic side panels and a cylinder cover finished in pure white, plus front fascia in Eloxal silver. Rectangular shaped cylinder.

EFFICIENCY: Minimal standby losses thanks to highly efficient thermal insulation. Large amounts of mixed water due to matched inlet and outlet technology.

- Low standby losses with energy efficiency class B thanks to optimised insulation concept
- Enamelled steel with directly applied foam insulation and impressed current anode for additional corrosion protection
- Rectangular shape in line with our in-house design for system cylinders | heat pumps
- Temperature shown on the display
- Hydraulic connections arranged at the rear, alternatively at the top
- Casing can be removed during handling if required
- Recessed grips to facilitate handling
- Large delivery of domestic hot water due to matched inlet and outlet technology

Part No.	Model	Rated capacity	Height	Width	Depth
234350	SBBE 401 WP SOL	395 l	1972 mm	786 mm	852 mm
234351	SBBE 501 WP SOL	495 l	1972 mm	786 mm	852 mm

Specification

Model	SBBE 401 WP SOL	SBBE 501 WP SOL
Energy efficiency class	B	B
Standby energy consumption/24 h at 65 °C	1.40 kWh	1.8 kWh
Surface, indirect coil, top	4.0 m²	5.0 m²
Surface area, lower indirect coil	1.4 m²	1.4 m²
Flanged aperture	210 mm	210 mm
Height of unit when tilted	2125 mm	2125 mm
Max. recommended collector aperture area	8 m²	10 m²
Weight	268 kg	270 kg

The max. recommended collector aperture area relates to STIEBEL ELTRON flat-plate collectors.

RBS 401-501

Pipe assembly RBS 401/501

Pipe assembly RBS, thermally insulated, for use with floorstanding DHW cylinders SBBE 301 - 501 WP SOL. Available as a set for easy optional relocation of the hydraulic connections of indirect coils and the DHW connections to the top, behind the cylinder. From there, the on-site connections are made to the copper connectors. One drain valve each is included in the return connections of each indirect coil. Pipes are run through an installation rail on the cylinder to align the individual pre-assembled connection pipework.

- Optional upward relocation of hydraulic cylinder connections, behind the cylinder
- Straightforward connection technology on the cylinder using union nuts and copper connectors on site

Part No.	Model	Suitable for
234511	RBS 401	...E 401 WP SOL
234513	RBS 501	...E 501 WP SOL

Specification

Model	RBS 401	RBS 501
Heat pump connection	28 mm	28 mm
Solar connection	22 mm	22 mm
Cold water connection	22 mm	22 mm
DHW connection	22 mm	22 mm
DHW circulation connection	15 mm	15 mm

Solar
DHW cylinder

SBB 401 WP SOL

Solar DHW cylinder SBB 401/501 WP SOL

APPLICATION: DHW cylinder for heat pump operation, for use in detached and semi-detached houses and apartment buildings, depending on the nominal capacity and heat transfer surface area. Optional integration of solar thermal backup is possible with ‚SOL' types.

EQUIPMENT: Enamelled steel cylinder with directly applied foam insulation, equipped with a magnesium signal anode for additional corrosion protection. One internal indirect coil for connecting a heat pump and another for solar connection in relation to ‚SOL' types. With inspection flange inside the cylinder, can optionally be fitted with a further heat exchanger or flanged immersion heater. Temperature sensor for connection to the heat pump control unit, plug-in dial thermometer and cold water inlet pipe for all-round connection alignment included in standard delivery. Cylinder casing consisting of outer plastic jacket in pure white, plus cylinder cover and plinth trim in grey.

EFFICIENCY: Low heat losses due to highly effective thermal insulation. Large volume of mixed water due to matched inlet and outlet technology.

- Enamelled steel with directly applied foam insulation and magnesium signal anode for additional corrosion protection
- Cold water inlet pipe for all-round alignment of the connection
- Accessories such as indirect coils, flanged immersion heaters or threaded immersion heaters can be installed
- Casing can be removed during handling if required
- Large delivery of domestic hot water due to matched inlet and outlet technology

Part No.	Model	Rated capacity	Height	Diameter incl. thermal insulation
221362	SBB 401 WP SOL	395 l	1880 mm	750 mm
227534	SBB 501 WP SOL	495 l	1988 mm	810 mm

Specification

Model	SBB 401 WP SOL	SBB 501 WP SOL
Energy efficiency class	C	C
Standby energy consumption/24 h at 65 °C	2.40 kWh	2.4 kWh
Surface, indirect coil, top	4.0 m²	5.0 m²
Surface area, lower indirect coil	1.4 m²	1.4 m²
Flanged aperture	210 mm	210 mm
Height of unit when tilted	1930 mm	2035 mm
Max. recommended collector aperture area	8 m²	10 m²
Weight	219 kg	260 kg

The max. recommended collector aperture area relates to STIEBEL ELTRON flat-plate collectors.

WRV 32

Corrugated connection pipe indirect coil for the SBB 401/501 WP SOL

Corrugated connection pipe with union nut and threaded end for optional linking of the lower and upper indirect coils.

- Suitable for DHW cylinders SBB 401/501 WP SOL

Part No.	Model	Length	Internal diameter, corrugated pipe	Weight	Twin nipple connection	Union screw connection
232628	WRV 32	350 mm	DN 32	1.6 kg	G 1 ½	G 1 ½

Solar
DHW cylinder

SBB 1001 SOL

DHW cylinder SBB 751/1001 SOL

APPLICATION: DHW cylinder for high output heat pumps for use in apartment buildings and commercial buildings. Intended for use in combination with a charging station as an accessory for DHW heating outside of the cylinder and subsequent storage. Optional integration of solar thermal backup possible with ... SOL types.
EQUIPMENT: Enamelled steel cylinder, equipped with a signal anode for additional corrosion protection. A radial DHW inlet optimises stratification in the cylinder. Inspection flanges sealed with blank flanges can also be fitted with additional indirect coils or flanged immersion heaters. The ... SOL types are equipped with an internal smooth tube indirect solar coil.
EFFICIENCY: Low standby losses in combination with the high grade EPTS rigid foam thermal insulation as an accessory. Matched inlet and outlet technology for good temperature stratification.

- Protective anode for corrosion protection as standard
- DHW heating in heat pump mode via charging station WTS 30/40 E (accessory)

Part No.	Model	Rated capacity	Height	Diameter incl. thermal insulation
229294	SBB 751 SOL	736 l	1777 mm	1010 mm
229295	SBB 1001 SOL	971 l	2277 mm	1010 mm

Specification

Model	SBB 751 SOL	SBB 1001 SOL
DHW connection	G 2 A	G 2 A
Cold water connection	G 2 A	G 2 A
Charging station connection	G 2 A	G 2 A
Heat exchanger connection	G 1 A	G 1 A
Surface, indirect coil	3 m²	3.9 m²
Flanged aperture	280 mm	280 mm
Height of unit when tilted	1840 mm	2335 mm
Max. recommended collector aperture area	15 m²	20 m²
Weight	242 kg	296 kg

The max. recommended collector aperture area relates to STIEBEL ELTRON flat-plate collectors.

WDH 1001 SBB

Thermal insulation WDH 751/1001 SBB

High grade EPTS rigid foam thermal insulation with insulation cover and floor disc for floorstanding DHW cylinders SBB 751/1001 and SBB 751/1001 SOL. Graphite inserts in the EPTS and fleece for lowest heat losses. Wedge-shaped cut-outs and fleece layer ensure an optimum match to the cylinder. Prepared adhesive joint in the wedge-shaped cut-outs enables adjustment to the shape prior to installation. External plastic jacket in white; cover in basalt grey. Thermal insulation secured with a quick-release hook strip.

- Composite thermal insulation made from rigid foam and fleece
- Best insulation properties through graphite inclusions
- Prepared to be shaped into a semi-shell

Part No.	Model	Standby energy consumption/24 h at 65 °C	Insulation for	Height	Thickness
231923	WDH 751 SBB	2.9 kWh	SBB 751 and 751 SOL	1840 mm	110 mm
231924	WDH 1001 SBB	3.5 kWh	SBB 1001 and 1001 SOL	2350 mm	110 mm

Solar
DHW cylinder

SBB 600 WP SOL

SBB 800-1000 WP SOL

DHW cylinder SBB 600/800/1000 WP SOL

APPLICATION: DHW cylinder for high output heat pumps for use in two-family houses, apartment buildings and commercial buildings. Optional integration of solar thermal backup.

EQUIPMENT: Enamelled steel cylinder, equipped with a signal anode for additional corrosion protection. Features two internal twin pipe indirect coils; the lower indirect coil connects to the solar thermal system whilst the upper coil connects to the heat pump. For heat pumps with a higher output, the two indirect coils can be connected in series. Inspection flanges sealed with blank flanges can also be fitted with additional indirect coils or flanged immersion heaters.

EFFICIENCY: Low standby losses in combination with the high grade EPTS rigid foam thermal insulation as an accessory. Matched inlet and outlet technology for good temperature stratification.

- Matched to DHW heating with high heat pump output
- Large transfer area through two integral twin pipe heat exchangers
- Protective anode for corrosion protection as standard

Part No.	Model	Rated capacity	Height	Diameter incl. thermal insulation
235906	SBB 600 WP SOL	575 l	1775 mm	970 mm
235907	SBB 800 WP SOL	770 l	1943 mm	1010 mm
235908	SBB 1000 WP SOL	835 l	2153 mm	1010 mm

Specification

Model	SBB 600 WP SOL	SBB 800 WP SOL	SBB 1000 WP SOL
DHW connection	G 1 1/4 A	G 2 A	G 2 A
Cold water connection	G 1 1/4 A	G 2 A	G 2 A
Heat exchanger connection	G 1 1/2 A	G 1 1/2 A	G 1 1/2 A
Surface, indirect coil, top	5.70 m²	6.20 m²	6.20 m²
Surface area, lower indirect coil	2.00 m²	2.60 m²	3.60 m²
Flanged aperture	280 mm	280 mm	280 mm
Height of unit when tilted	1813 mm	1990 mm	2185 mm
Max. recommended collector aperture area	12 m²	14 m²	17 m²
Weight	256 kg	302 kg	321 kg

The max. recommended collector aperture area relates to STIEBEL ELTRON flat-plate collectors.

WDH 800-1000 SBB

Thermal insulation WDH 600/800/1000 SBB

High grade EPTS rigid foam thermal insulation with insulation cover and floor disc for floorstanding DHW cylinders SBB 600/800/1000 WP SOL. Graphite inserts in the EPTS and fleece ensure lowest heat losses. Wedge-shaped cut-outs and fleece layer ensure an optimum match to the cylinder. Prepared adhesive joint in the wedge-shaped cut-outs enables adjustment to the shape prior to installation. External plastic jacket in white; cover in basalt grey. Thermal insulation secured with a quick-release hook strip.

- Composite thermal insulation made from rigid foam and fleece
- Best insulation properties through graphite inclusions
- Prepared to be shaped into a semi-shell

Part No.	Model	Standby energy consumption/24 h at 65 °C	Insulation for	Height	Thickness
235909	WDH 600 SBB	2.7 kWh	SBB 600 WP SOL	1803 mm	110 mm
235910	WDH 800 SBB	3.0 kWh	SBB 800 WP SOL	2065 mm	110 mm
235911	WDH 1000 SBB	3.4 kWh	SBB 1000 WP SOL	2275 mm	110 mm

Solar
DHW cylinder

SBS 801 W SOL

Instantaneous water cylinders SBS 601/801/1001/1501 W SOL

APPLICATION: Instantaneous water cylinder for combined use to provide DHW heating, as a buffer cylinder for hydraulic separation of the liquid flowing in the heat pump and heating circuit, and to store heating energy. For use in detached and two-family houses and apartment buildings with hydraulically interconnected cylinders. Optional integration of solar thermal backup possible with ... SOL types.

EQUIPMENT: Steel cylinder with an integral stainless steel corrugated pipe indirect coil for instantaneous DHW heating. Connectors at the front enable several system-specific hydraulic circuits. Temperature stratification is supported by the Protemp-Flow inlets integrated in the cylinder. A threaded immersion heater can be optionally built in via the inspection connector. Optional integration of solar thermal backup possible with ... SOL types.

EFFICIENCY: Low standby losses in combination with the high grade EPTS rigid foam thermal insulation as an accessory. Matched inlet and outlet technology for good temperature stratification and a reduction in flow turbulence of up to 60 %.

- Only one cylinder to serve for DHW heating and as heating buffer cylinder
- Inlet device for zoned heating and discharging
- Hydraulic separation between the solar, heating and DHW zones
- Hygienic DHW heating through instantaneous water heater principle
- SOL types with integral solar indirect coil
- 3 thermometers are part of the standard delivery
- Heat pump operation, can be combined with additional heat source and threaded immersion heater (BGC)

Part No.	Model	Rated capacity	Height	Diameter incl. thermal insulation
229984	SBS 601 W SOL	599 l	1665 mm	970 mm
229985	SBS 801 W SOL	740 l	1830 mm	1010 mm
229986	SBS 1001 W SOL	916 l	2240 mm	1010 mm
229987	SBS 1501 W SOL	1399 l	2155 mm	1220 mm

Specification

Model	SBS 601 W SOL	SBS 801 W SOL	SBS 1001 W SOL	SBS 1501 W SOL
Cold water inlet	G 1 ¼ A	G 1 ¼ A	G 1 ¼ A	G 1 ¼ A
DHW outlet	G 1 ¼ A	G 1 ¼ A	G 1 ¼ A	G 1 ¼ A
Heat pump connection	G 1 ½ A	G 1 ½ A	G 1 ½ A	G 2 A
Heating flow/return connection	G 1 ½ A	G 1 ½ A	G 1 ½ A	G 2 A
Solar flow	G 1	G 1	G 1	G 1
Solar return	G 1	G 1	G 1	G 1
Surface area, DHW indirect coil	6.00 m²	6.50 m²	8.70 m²	10.00 m²
Surface area, lower indirect coil	1.50 m²	2.40 m²	3.20 m²	3.70 m²
Height of unit when tilted	1840 mm	1880 mm	2285 mm	2225 mm
Max. recommended collector aperture area	12 m²	16 m²	20 m²	30 m²
Weight	180 kg	195 kg	220 kg	291 kg

The max. recommended collector aperture area relates to STIEBEL ELTRON flat-plate collectors.

WDH 801 SBS

Thermal insulation WDH 601/801/1001/1501 SBS

High grade EPTS rigid foam thermal insulation with insulation cover and floor disc for SBS 601-1001 W and W SOL instantaneous water cylinders. Graphite inserts in the EPTS and fleece for lowest heat losses. Wedge-shaped cut-outs and fleece layer ensure an optimum match to the cylinder. Prepared adhesive joint in the wedge-shaped cut-outs enables adjustment to the shape prior to installation. External plastic jacket in white; cover in basalt grey. Thermal insulation secured with a quick-release hook strip.

- Composite thermal insulation made from rigid foam and fleece
- Best insulation properties through graphite inclusions
- Prepared to be shaped into a semi-shell

Part No.	Model	Standby energy consumption/24 h at 65 °C	Insulation for	Height	Thickness
231925	WDH 601 SBS	2.6 kWh	SBS 601 W, W SOL	1775 mm	110 mm
231926	WDH 801 SBS	2.9 kWh	SBS 801 W, W SOL	1940 mm	110 mm
231927	WDH 1001 SBS	3.5 kWh	SBS 1001 W, W SOL	2350 mm	110 mm
231928	WDH 1501 SBS	4.1 kWh	SBS 1501 W, W SOL	2265 mm	110 mm

Solar
DHW cylinder

UBS-VL

UBS-RL

Diverter valve assembly

Insulated pipe assemblies, each with diverter valve for the single flow and return connection of a heat pump with zoned charging of the 601, 801, 1001 W and W SOL instantaneous water cylinders. Cylinder-specific adjustments are made by trimming the pipe sections. The assemblies are installed upstream of the cylinder using union nuts. Any orientation of the heat pump connection at the side is possible.

› Consisting of an insulated pipe section and diverter valve

Part No.	Model	Application	Suitable for	Connection	Heat pump connection
238489	UBS-VL	Anschluss Wärmepumpen-Vorlauf	... 601-1001 W/ W SOL	G 1 ½	42 mm
238490	UBS-RL	Anschluss Wärmepumpen-Rücklauf	... 601-1001 W/ W SOL	G 1 ½	42 mm

ZW 1 ¼

DHW circulation set

› DHW circulation set for SBS 601-1501 W and W SOL instantaneous water cylinders
› Comprising a gunmetal tee and inserted stainless steel corrugated pipe
› Connection for DHW circulation R ½, connection for DHW Rp 1 ¼

Part No.	Model
230312	ZW 1 ¼

Solar
Buffer cylinder

SBP 700 E SOL

BUFFER CYLINDER

Buffer cylinder SBP 700 E SOL

APPLICATION: Buffer cylinders for heat pump heating systems (SBP 700 E | SOL can also be used in cooling mode). They serve for hydraulic separation of the heat pump flow and the heating circuit flow, for extending heat pump runtimes and for storing heating energy. For use in detached and two-family houses, depending on nominal capacity. Optional integration of solar thermal backup for ‚SOL' types.

EQUIPMENT: Steel cylinder with directly applied foam insulation, hydraulic connections arranged at the front one above the other, plus connectors for optional fitting of threaded immersion heaters. With ‚SOL' types, one internal indirect coil for solar connection. Cylinder casing consisting of outer plastic jacket in pure white, plus cylinder cover and plinth trim in grey.

EFFICIENCY: Low heat losses due to highly effective thermal insulation. Designed for connecting heat pumps with high flow rates on the primary side.

- Low standby losses thanks to highly effective thermal insulation
- Steel cylinder with directly applied foam insulation
- Accessories such as threaded immersion heaters can be installed
- Casing can be removed during handling if required

Part No.	Model	Rated capacity	Height	Diameter incl. thermal insulation
185460	SBP 700 E SOL	703 l	1890 mm	910 mm

Specification

Model	SBP 700 E SOL
Energy efficiency class	
Standby energy consumption/24 h at 65 °C	2.2 kWh
Connection	4 x G2 A
Heat exchanger connection	G 1
Surface, indirect coil	2 m²
Height of unit when tilted	2000 mm
Max. recommended collector aperture area	14 m²
Weight	216 kg

The max. recommended collector aperture area relates to STIEBEL ELTRON flat-plate collectors.

Solar
Buffer cylinder

SBP 1000 E SOL

Buffer cylinder SBP 1000/1500 E SOL

APPLICATION: Buffer cylinders for heating heat pumps in large systems. They enable hydraulic separation of the liquid flowing in the heat pump and heating circuit, to extend heat pump runtimes and store heating energy. Suitable for use in apartment buildings and commercial buildings.

EQUIPMENT: Steel cylinder with flange connections arranged at the front one above the other for the primary and secondary circuit and additional connectors for the option of combining further heat generators. A flanged aperture sealed with a blank flange can also be fitted with an additional indirect coil or flanged immersion heater as required for the specific system. The ... E SOL types are also equipped with an internal smooth tube indirect solar coil.

EFFICIENCY: Low standby losses in combination with the high grade EPTS rigid foam thermal insulation as an accessory. Matched inlet and outlet technology for good temperature stratification. Designed for connecting heat pumps with high flow rates on the primary side

- Flanged connections DN 80 for heat pump and heating circuit
- SBP 1000/1500 E SOL with solar indirect coil
- Use in conjunction with large heat pumps, e.g. from WPF 40, WPL 34-57
- Flange aperture 280 mm with dummy flange for the optional use of WTW, WTFS and FCR electric immersion heater
- May be combined with up to two heat sources and two electric immersion heaters (BGC)

Part No.	Model	Rated capacity	Height	Diameter incl. thermal insulation
227566	SBP 1000 E SOL	979 l	2300 mm	1010 mm
227567	SBP 1500 E SOL	1473 l	2220 mm	1220 mm

Specification

Model	SBP 1000 E SOL	SBP 1500 E SOL
Max. permissible pressure	0.30 MPa	0.30 MPa
Heat pump flange	DN 80	DN 80
Immersion heater flange	DN 80	DN 80
Heat exchanger connection	G 1	G 1
Flanged aperture	280 mm	280 mm
Surface, indirect coil	3 m²	3.6 m²
Height of unit when tilted	2335 mm	2250 mm
Max. recommended collector aperture area	20 m²	30 m²
Weight	219 kg	285 kg

The max. recommended collector aperture area relates to STIEBEL ELTRON flat-plate collectors.

WDH 1000 SBP

Thermal insulation WDH 1000/1500 SBP

High-grade EPTS rigid foam thermal insulation with insulated cover for SBP 1000/1500 E SOL and E cool buffer cylinders ensures very low heat losses. Wedge-shaped cut-outs and fleece layer ensure optimum adaptation to the diffusion-proof pre-insulated cylinder. External plastic jacket in pure white; cover in basalt grey. Thermal insulation secured with a quick-release hook strip.

- Composite thermal insulation made from rigid foam and fleece
- Best insulation properties through graphite inclusions
- Prepared to be shaped into a semi-shell

Part No.	Model	Insulation for	Height	Thickness
231929	WDH 1000 SBP	SBP 1000 E and E SOL	2340 mm	110 mm
231930	WDH 1500 SBP	SBP 1500 E and E SOL	2255 mm	110 mm

Solar
Solar system accessories

SOLAR SYSTEM ACCESSORIES

Can of concentrate

DISCONT. PRODUKT

Heat transfer medium

Ready to use heat transfer medium (on polypropylene glycol basis) for solar systems with corrosion and anti-boiling protection. Frost protection down to -30° (H-30 L) or -28° (H-30 LS).Never dilute with water. No health risks.

Part No.	Model	Colour	Content	Resistant to constant temperatures up to
073221	H-30 L, 10 litres	blue	10 l	150 °C
073222	H-30 L, 20 litres	blue	20 l	150 °C
074099	H-30 LS, 10 litres	Red, fluorescent	10 l	170 °C
074100	H-30 LS, 20 litres	Red, fluorescent	20 l	170 °C

Availability: As long as stock lasts

SOL LA

DISCONT. PRODUKT

Absorption air separator

Absorption air separator made from brass, with integral float air vent valve for installation in sealed solar heating systems.

Part No.	Model
231015	SOL LA

Availability: As long as stock lasts

Specification

Model	SOL LA
Material	Brass
Connection	G ¾
Max. operating temperature	180 °C
Max. throughput	1.3 m³/h

SOL SE

DISCONT. PRODUKT

Quick-action air vent valve

Automatic quick-action air vent valve with shut-off ball valve for venting one solar thermal system with collectors of the Basic series.

Part No.	Model	Suitable for
231898	SOL SE	Basic rooftop collectors, horizontal

Availability: As long as stock lasts

Specification

Model	SOL SE
Material	Brass, chrome finish
Connection	G ¾
Max. operating pressure	1 MPa
Max. operating temperature	180 °C

VAG 12

DISCONT. PRODUKT

Pre-cooling vessel

Solar pre-cooling vessel to protect the expansion vessel in case of excessive temperatures. Recommended for larger solar thermal systems, e.g. for DHW heating with additional central heating backup.

Part No.	Model	Suitable for	Volume	Connection
231979	VAG 12	Male 12 I Male 18 I Male 25 I Male 50	12 l	G ¾

Availability: As long as stock lasts

expansion vessel AG 80

DISCONT. PRODUKT

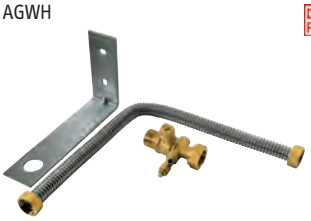
Expansion vessel

Diaphragm expansion vessel (type-tested) with wall retaining brackets; H-30 L-resistant; permanently resistant to temperatures of 70 °C (peak temperatures may be higher) with a branch line length of at least 1 m to the solar compact installation.

Part No.	Model	Volume	Connection
074029	AG 12	12 l	G ½
074030	AG 18	18 l	G ¾
074031	AG 25	25 l	G ¾
187868	AG 50	50 l	G ¾
231899	AG 80	80 l	G1

Solar
Solar system accessories

AGWH



DISCONT. PRODUKT

DEV connection set

Wall mounting bracket to secure expansion vessels up to 25 litres. A solar cap valve with drain valve, flexible armoured hose (0.5 m), DEV fixing nut, high temperature gaskets and fixing materials are part of the standard delivery.

Part No.	Model	Suitable for
231905	AGWH	AG 12, AG 18, AG 25

Availability: As long as stock lasts

WPRB

WPRB Pipework set

Pipe set for threaded heater element type BGC for electrical re-heating.

Part No.	Model
074233	WPRB Pipework set

KTH basic

DISCONT. PRODUKT

Collector sensor well

Collector sensor well to accept the temperature sensor of the solar controller at the collector; with bleed screw for venting the solar circuit.

Part No.	Model	Suitable for
229322	KTH basic	SOL 27 basic | W

Availability: As long as stock lasts

Corrugated stainless steel hose

DISCONT. PRODUKT

Thermally insulated corrugated stainless steel hose for roof outlets

Flexible and thermally insulated corrugated stainless steel hose for the connection of the collectors on the heat transfer medium side. The thermal insulation comprises a temperature and UV-resistant EPDM hose.

Part No.	Model	Suitable for
073469	Corrugated stainless steel hose	Basic collectors, horizontal

Availability: As long as stock lasts

Specification

Model	Corrugated stainless steel hose
Length	800 mm
Connection	G ¾
Nominal diameter DN	DN 16

Solar
Solar system accessories

SUV

DISCONT. PRODUKT

Diverter valve

Three-way diverter valve with replaceable seal cone insert and electric servomotor.

Part No.	Model
231900	SUV

Availability: As long as stock lasts

Specification

Model	SUV
Connection	Rp 1
IP-Rating	IP40
Max. ambient temperature	60 °C
Max. operating temperature	120 °C

SFR

DISCONT. PRODUKT

Flexible solar pipe

The flexible solar pipe makes it easy to connect the solar collector and the cylinder. The system comprises two pre-insulated corrugated stainless steel pipes for flow and return, as well as an integral two-core sensor lead. Fixing material is provided. Flow and return can be easily separated. The black film sleeve protects against mechanical stress and UV radiation. Suitable for high temperature applications.

- Faster installation
- Easy installation
- Secure hydraulic connection

Part No.	Model
232944	SFR 10
232945	SFR 15
232946	SFR 20
232947	SFR 25

Availability: As long as stock lasts

Specification

Model	SFR 10	SFR 15	SFR 20	SFR 25
Length	10 m	15 m	20 m	25 m
Nominal diameter DN	DN 20	DN 20	DN 20	DN 20
Connection	G ¾	G ¾	G ¾	G ¾

KGS

DISCONT. PRODUKT

Collector handle set

Collector handle set for mounting collectors on roofs. This set can be used to carry collectors or as a lifting eye for cranes. This set includes 4 collector handles.

Part No.	Model	Suitable for
231906	KGS	Rooftop collectors

Availability: As long as stock lasts

Solar
Solar sets for DHW heating

SOLAR SETS FOR DHW HEATING

Solar set basic 300/2

DISCONT. PRODUKT

Solar set basic 300/2

- Part no.: 221388
- Price benefit for ordering the set compared with ordering individual components
- Solar set for DHW heating for households with up to 4 occupants
- Including fixing set for tiled roofs, solar control unit, pump assembly, expansion vessel and heat transfer medium
- SBB 300 Trend floorstanding solar cylinder with 300 litre capacity as part of the set

Pos.	Part No.	Model	Qty.
1	228927	SOL 27 basic	2
2	234783	SOKI E Trend	1
3	234785	SOM 7 E plus	1
4	229322	KTH basic	1
5	073469	Corrugated stainless steel hose	1
6	074030	AG 18	1
7	073221	H-30 L, 10 litres	1
8	073222	H-30 L, 20 litres	1
9	230170	SOL R2	1
10	230175	SOL BP	2

Standard system with 40 litres DHW consumption per person per day (DHW temperature 45 °C); climate zone I – location Würzburg; orientation due south; roof pitch 45°, no shading, 10 m single pipe run length, pipework thermally insulated 100 % to EnEV [Germany] (80 % internally, 20 % externally); coverage: approx. 40 to 60 % p.a., subject to system characteristics and installation conditions. Carry out a different sizing calculation for alternative climate zone or occupancy rate.
Availability: As long as stock lasts

SOLAR SETS FOR HEAT PUMP BACKUP

Solar set basic HP

Solar set basic WP

- Part no.: 228839
- Solar set to back up heat pump systems
- Including fixing set for tiled roofs, solar control unit, pump assembly, expansion vessel and heat transfer medium

Pos.	Part No.	Model	Qty.
1	228927	SOL 27 basic	2
2	234783	SOKI E Trend	1
3	234785	SOM 7 E plus	1
4	073469	Corrugated stainless steel hose	1
5	229322	KTH basic	1
6	074030	AG 18	1
7	073221	H-30 L, 10 litres	1
8	073222	H-30 L, 20 litres	1
9	230170	SOL R2	1
10	230175	SOL BP	2

Standard system with 40 litres DHW consumption per person per day (DHW temperature 45 °C); climate zone I – location Würzburg; orientation due south; roof pitch 45°, no shading, 10 m single pipe run length, pipework thermally insulated 100 % to EnEV [Germany] (80 % internally, 20 % externally); coverage: approx. 40 to 60 % p.a., subject to system characteristics and installation conditions. Carry out a different sizing calculation for alternative climate zone or occupancy rate.
Availability: As long as stock lasts

Solar
Solar sets for DHW heating

Solar set SBB 401 WP SOL

DISCONT. PRODUKT

Solar-Set SBBE 401 WP SOL

- Part no.: 230152
- Price benefit for ordering the set compared with ordering individual components
- Sized for households with up to 4 occupants
- Including fixing set for tiled roofs, solar control unit, pump assembly, expansion vessel and heat transfer medium
- Solar set to back up heat pump systems

Pos.	Part No.	Model	Qty.
1	228927	SOL 27 basic	2
2	234350	SBBE 401 WP SOL	1
3	234783	SOKI E Trend	1
4	234785	SOM 7 E plus	1
5	074030	AG 18	1
6	229322	KTH basic	1
7	073469	Corrugated stainless steel hose	1
8	073221	H-30 L, 10 litres	1
9	073222	H-30 L, 20 litres	1
10	230170	SOL R2	1
11	230175	SOL BP	2

Standard system for up to 4 occupants, with 40 litres DHW consumption per person per day (DHW temperature 45 °C); climate zone I – location Würzburg; orientation due south; roof pitch 45°, no shading, 10 m single pipe run length, pipework thermally insulated 100 % to EnEV [Germany] (80 % internally, 20 % externally); coverage: approx. 40 to 60 % p.a., subject to system characteristics and installation conditions. Carry out a different sizing calculation for alternative climate zone or occupancy rate.
Availability: As long as stock lasts

Solar set SBB 501 WP SOL

Solar-Set SBBE 501 WP SOL

- Part no.: 230153
- Price benefit for ordering the set compared with ordering individual components
- Sized for households with up to 6 occupants
- Including fixing set for tiled roofs, solar control unit, pump assembly, expansion vessel and heat transfer medium
- Solar set to back up heat pump systems

Pos.	Part No.	Model	Qty.
1	228927	SOL 27 basic	3
2	234351	SBBE 501 WP SOL	1
3	234783	SOKI E Trend	1
4	234785	SOM 7 E plus	1
5	073469	Corrugated stainless steel hose	1
6	229322	KTH basic	1
7	074031	AG 25	1
8	073222	H-30 L, 20 litres	2
9	230170	SOL R2	1
10	230169	SOL R1	1
11	230175	SOL BP	3
12	230171	SOL RV	1

Standard system for up to 6 occupants, with 40 litres DHW consumption per person per day (DHW temperature 45 °C); climate zone I – location Würzburg; orientation due south; roof pitch 45°, no shading, 10 m single pipe run length, pipework thermally insulated 100 % to EnEV [Germany] (80 % internally, 20 % externally); coverage: approx. 40 to 60 % p.a., subject to system characteristics and installation conditions. Carry out a different sizing calculation for alternative climate zone or occupancy rate.
Availability: As long as stock lasts

Solar
Solar sets for DHW heating

Solar set SBS 601 W SOL

DISCONT. PRODUKT

Solar set SBS 601 W SOL

- Part no. 230156
- Price benefit for ordering the set compared with ordering individual components
- Sized for households with up to 4 occupants
- Including fixing set for tiled roofs, solar control unit, pump assembly, expansion vessel and heat transfer medium
- Solar set to back up heat pump systems

Pos.	Part No.	Model	Qty.
1	228927	SOL 27 basic	4
2	229984	SBS 601 W SOL	1
3	234783	SOKI E Trend	1
4	234785	SOM 7 E plus	1
5	229322	KTH basic	1
6	231925	WDH 601 SBS	1
7	073469	Corrugated stainless steel hose	1
8	187868	AG 50	1
9	073222	H-30 L, 20 litres	2
10	230170	SOL R2	2
11	230175	SOL BP	4
12	230171	SOL RV	1

Standard system for up to 4 occupants, with 40 litres DHW consumption per person per day (DHW temperature 45 °C); climate zone I – location Würzburg; orientation due south; roof pitch 45°, no shading, 10 m single pipe run length, pipework thermally insulated 100 % to EnEV [Germany] (80 % internally, 20 % externally); coverage: approx. 40 to 60 % p.a., subject to system characteristics and installation conditions. Carry out a different sizing calculation for alternative climate zone or occupancy rate.
Thermal insulation (229989 WD 601 SBS) available as long as stocks last. Then delivery with (231925 WDH 601 SBS).
Availability: As long as stock lasts

Solar set SBS 801 W SOL

DISCONT. PRODUKT

Solar set SBS 801 W SOL

- Part no. 230157
- Price benefit for ordering the set compared with ordering individual components
- Sized for households with up to 6 occupants
- Including fixing set for tiled roofs, solar control unit, pump assembly, expansion vessel and heat transfer medium
- Solar set to back up heat pump systems

Pos.	Part No.	Model	Qty.
1	228927	SOL 27 basic	4
2	229985	SBS 801 W SOL	1
3	234783	SOKI E Trend	1
4	234785	SOM 7 E plus	1
5	229322	KTH basic	1
6	231926	WDH 801 SBS	1
7	073469	Corrugated stainless steel hose	1
8	187868	AG 50	1
9	073222	H-30 L, 20 litres	2
10	230170	SOL R2	2
11	230175	SOL BP	4
12	230171	SOL RV	1

Standard system for up to 6 occupants, with 40 litres DHW consumption per person per day (DHW temperature 45 °C); climate zone I – location Würzburg; orientation due south; roof pitch 45°, no shading, 10 m single pipe run length, pipework thermally insulated 100 % to EnEV [Germany] (80 % internally, 20 % externally); coverage: approx. 40 to 60 % p.a., subject to system characteristics and installation conditions. Carry out a different sizing calculation for alternative climate zone or occupancy rate.
Thermal insulation (229990 WD 801 SBS) available as long as stocks last. Then delivery with (231926 WDH 801 SBS).
Availability: As long as stock lasts

Solar
Solar material compositions

Material compositions

	Cylinder, expansion vessel, heat transfer medium												
	Description	Part no.	Number										
	Flat-plate collectors												
	SOL 27 premium S	230016	1	2	3	4	5	6	8	10	12	15	16
	SOL 27 premium W	230017	1	2	3	4	5	6	8	10	12	15	16
	SOL 27 basic	228927	1	2	3	4	5	6	8	10	12	15	16
	SOL 27 basic W	230912	1	2	3	4	5	6	8	10	12	15	16
	Hydraulic assemblies		1	1	1	1	1	2	2	2	3	3	4
DHW CYLINDER	**Cylinder**												
	SBB 300 plus	18 78 73	1	1	-	-	-	2	-	-	4	-	-
	SBB 400 plus	18 78 74	-	-	1	1	-	-	2	-	3	-	4
	SBB 600 plus	18 78 75	-	-	-	-	1	1	-	-	2	-	-
	SBB 300 Trend	23 34 90	-	1	-	-	-	-	-	-	-	-	-
	SBB 400 Trend	23 34 91	-	-	1	-	-	2	-	-	-	-	-
	SBB 500 Trend	23 34 92	-	-	-	1	-	-	2	-	-	-	-
	SBB 401 WP SOL	22 13 62	-	-	1	1	-	-	2	-	3	-	4
	SBB 501 WP SOL	22 75 34	-	-	-	1	1	-	-	2	-	3	-
	SBBE 401 WP SOL	23 43 50	-	-	1	1	-	-	2	-	3	-	4
	SBBE 501 WP SOL	23 43 51	-	-	-	1	1	-	-	2	-	3	-
	Expansion vessel												
	AG 18	07 40 30	1	1	-	-	-	-	-	1	-	-	1
	AG 25	07 40 31	-	-	1	-	-	-	-	-	-	-	-
	AG 50	18 78 68	-	-	-	1	1	1	1	1	2	2	2
	Heat transfer medium												
	H-30 L, 10 litres	07 32 21	1	1	-	-	1	1	-	1	-	-	1
	H-30 L, 20 litres	07 32 22	1	1	2	2	2	2	3	2	5	4	5
INSTANTANEOUS WATER HEATING CYLINDER	**Cylinder**												
	SBS 601 W SOL	22 99 84	-	-	-	1	1	-	-	-	-	-	-
	SBS 801 W SOL	22 99 85	-	-	-	-	-	1	1	-	-	-	-
	SBS 1001 W SOL	22 99 86	-	-	-	-	-	-	1	1	-	-	-
	SBS 1501 W SOL	22 99 87	-	-	-	-	-	-	-	-	1	1	-
	Thermal insulation												
	WDH 601 SBS	23 19 25	-	-	-	1	1	-	-	-	-	-	-
	WDH 801 SBS	23 19 26	-	-	-	-	-	1	1	-	-	-	-
	WDH 1001 SBS	23 19 27	-	-	-	-	-	-	1	1	-	-	-
	WDH 1501 SBS	23 19 28	-	-	-	-	-	-	-	-	1	1	-
	Expansion vessel												
	AG 50	18 78 68	-	-	-	1	1	1	1	2	2	2	-
	Heat transfer medium												
	H-30 L, 10 litres	07 32 21	-	-	-	1	1	-	1	1	-	1	-
	H-30 L, 20 litres	07 32 22	-	-	-	2	2	3	2	2	3	3	-

The material list refers to hydraulic assemblies. Up to 5 collectors can be interconnected hydraulically. From 6 collectors upwards, a separation into several hydraulic assemblies is required. The sizing of the expansion vessel and the amount of heat transfer medium H-30 L is matched to STIEBEL ELTRON cylinders with a single line of 15 m length between the collectors and the solar cylinder.

Solar
Solar material compositions

Vertical installation side by side

	Description	Part no.	Number										
	Flat-plate collectors												
	SOL 27 premium S	23 00 16	1	2	3	4	5	6	8	10	12	15	16
	SOL 27 basic	22 89 27	1	2	3	4	5	6	8	10	12	15	16
	Hydraulic assemblies		1	1	1	1	1	2	2	2	3	3	4
QUICK FIXING	**Quick fixing set for tiled roofs**												
	SOL SBP-S	23 19 80	1	2	3	4	5	6	8	10	12	15	16
	Hydraulic connection accessories												
	SOL 27 premium S – SOL SV-D	23 01 86	1	1	1	1	1	2	2	2	3	3	4
	SOL 27 premium S – SOL SV-A	23 01 85	-	1	2	3	4	4	6	8	9	12	12
	SOL 27 basic – KTH basic	22 93 22	1	1	1	1	1	1	1	1	1	1	1
	SOL 27 basic – Corrugated stainless steel hose	07 34 69	1	1	1	1	1	2	2	2	3	3	4
STANDARD ROOFTOP INSTALLATION	**Fixing sets**												
	Tiled roof SOL BP	23 01 75	2	2	3	4	5	6	8	10	12	15	16
	Corrugated roof SOL BW	23 19 98	2	2	3	4	5	6	8	10	12	15	16
	Slate|shingle roof SOL BS	23 01 89	2	2	3	4	5	6	8	10	12	15	16
	Plain tile SOL BB	23 01 90	2	2	3	4	5	6	8	10	12	15	16
	Plain tile SOL BB-Cu	23 01 91	2	2	3	4	5	6	8	10	12	15	16
	Mounting frame												
	SOL R1	23 01 69	1	-	1	-	1	-	-	2	-	3	-
	SOL R2	23 01 70	-	1	1	2	2	3	4	4	6	6	8
	Frame connection set												
	SOL RV*	23 01 71	-	-	1	1	2	2	2	4	3	6	4
	Frame support (optional)												
	SOL RA	23 01 73	2	2	3	4	5	6	8	10	12	15	16
	Hydraulic connection accessories												
	SOL 27 premium S – SOL SV-D	23 01 86	1	1	1	1	1	2	2	2	3	3	4
	SOL 27 premium S – SOL SV-A	23 01 85	-	1	2	3	4	4	6	8	9	12	12
	SOL 27 basic – KTH basic	22 93 22	1	1	1	1	1	1	1	1	1	1	1
	SOL 27 basic – Corrugated stainless steel hose	07 34 69	1	1	1	1	1	2	2	2	3	3	4
FLAT ROOF | WALL MOUNTING	**Fixing set**												
	Flat roof|wall mounting SOL BF-S	23 01 77	2	2	3	4	5	6	8	10	12	15	16
	Mounting frame												
	SOL R1	23 01 69	1	-	1	-	1	-	-	2	-	3	-
	SOL R2	23 01 70	-	1	1	2	2	3	4	4	6	6	8
	Frame connection set												
	SOL RV*	23 01 71	-	-	1	1	2	2	2	4	3	6	4
	Hydraulic connection accessories												
	SOL 27 premium S – SOL SV-F	23 09 13	1	1	1	1	1	2	2	2	3	3	4
	SOL 27 premium S – SOL SV-A	23 01 85	-	1	2	3	4	4	6	8	9	12	12
	SOL 27 basic – KTH basic	22 93 22	1	1	1	1	1	1	1	1	1	1	1
	SOL 27 basic – Corrugated stainless steel hose	07 34 69	1	1	1	1	1	2	2	2	3	3	4

The material list refers to hydraulic assemblies that are physically separate from each other. Up to 5 collectors can be interconnected hydraulically. From 6 collectors upwards, a separation into several hydraulic assemblies is required.

*When intending to interconnect individual hydraulic assemblies, the number of frame connection sets ordered must match this requirement.

Solar
Solar material compositions

Side by side installation horizontal

	Description		Part no.	Number										
	Flat-plate collectors													
	SOL 27 premium W		230017	1	2	3	4	5	6	8	10	12	15	16
	SOL 27 basic W		230912	1	2	3	4	5	6	8	10	12	15	16
	Hydraulic assemblies			1	1	1	1	1	2	2	2	3	3	4
QUICK FIXING	**Quick fixing set for tiled roofs**													
	SOL SBP-W		23 19 81	1	2	3	4	5	6	8	10	12	15	16
	Hydraulic connection accessories													
	SOL 27 premium S	SOL SV-D	23 01 86	1	1	1	1	1	2	2	2	3	3	4
	SOL 27 premium S	SOL SV-A	23 01 85	-	1	2	3	4	4	6	8	9	12	12
	SOL 27 basic	KTH basic	22 93 22	1	1	1	1	1	1	1	1	1	1	1
	SOL 27 basic	Corrugated stainless steel hose	07 34 69	1	1	1	1	1	2	2	2	3	3	4
STANDARD ROOFTOP INSTALLATION	**Fixing sets**													
	Tiled roof SOL BP		23 01 75	2	4	6	8	10	12	16	20	24	30	32
	Corrugated roof SOL BW		23 19 98	2	4	6	8	10	12	16	20	24	30	32
	Slate|shingle roof SOL BS		23 01 89	2	4	6	8	10	12	16	20	24	30	32
	Plain tile SOL BB		23 01 90	2	4	6	8	10	12	16	20	24	30	32
	Plain tile SOL BB-Cu		23 01 91	2	4	6	8	10	12	16	20	24	30	32
	Mounting frame													
	SOL R1 W		23 09 20	1	2	3	4	5	6	8	10	12	15	16
	Frame connection set													
	SOL RV*		23 01 71	-	1	2	3	4	4	6	8	9	12	12
	Frame support (optional)													
	SOL RA 15°- 30°		23 01 73	2	4	6	8	10	12	16	20	24	30	32
	Hydraulic connection accessories													
	SOL 27 premium W	SOL SV-D	23 01 86	1	1	1	1	1	2	2	2	3	3	4
	SOL 27 premium W	SOL SV-A	23 01 85	-	1	2	3	4	4	6	8	9	12	12
	SOL 27 basic W	KTH basic	22 93 22	1	1	1	1	1	1	1	1	1	1	1
	SOL 27 basic W	Corrugated stainless steel hose	07 34 69	1	1	1	1	1	2	2	2	3	3	4
FLAT ROOF | WALL MOUNTING	**Fixing set**													
	Flat roof|wall mounting SOL BF-W		23 0178	2	4	6	8	10	12	16	20	24	30	32
	Mounting frame													
	SOL R1 W		23 09 20	1	2	3	4	5	6	8	10	12	15	16
	Frame connection set													
	SOL RV*		23 01 71	-	1	2	3	4	4	6	8	9	12	12
	Hydraulic connection accessories													
	SOL 27 premium W	SOL SV-F	23 09 13	1	1	1	1	1	2	2	2	3	3	4
	SOL 27 premium W	SOL SV-A	23 01 85	-	1	2	3	4	4	6	8	9	12	12
	SOL 27 basic W	KTH basic	22 93 22	1	1	1	1	1	1	1	1	1	1	1
	SOL 27 basic W	Corrugated stainless steel hose	07 34 69	1	1	1	1	1	2	2	2	3	3	4

The material list refers to hydraulic assemblies that are physically separate from each other. Up to 5 collectors can be interconnected hydraulically. From 6 collectors upwards, a separation into several hydraulic assemblies is required.

*When intending to interconnect individual hydraulic assemblies, the number of frame connection sets ordered must match this requirement.

Horizontal installation above each other

	Description		Part no.	Number										
	Flat-plate collectors													
	SOL 27 premium S		230016	1	2	3	4	5	6	8	10	12	15	16
	Hydraulic assemblies			1	1	1	1	1	2	2	2	3	3	4
QUICK FIXING	**Quick fixing set for tiled roofs**													
	SOL SBP-W		23 19 81	1	1	1	1	1	2	2	2	3	3	4
	SOL SBP-WE		23 19 82	-	1	2	3	4	4	6	8	9	12	12
	Hydraulic connection accessories													
	SOL 27 premium S	SOL SV-D	23 01 86	1	1	1	1	1	2	2	2	3	3	4
	SOL 27 premium S	SOL SV-A 50	23 13 22	-	1	2	3	4	4	6	8	9	12	12
STANDARD ROOFTOP INSTALLATION	**Fixing sets**													
	Tiled roof SOL BP		23 01 75	2	3	4	5	6	7	9	12	15	18	20
	Corrugated roof SOL BW		23 19 98	2	3	4	5	6	7	9	12	15	18	20
	Slate|shingle roof SOL BS		23 01 89	2	3	4	5	6	7	9	12	15	18	20
	Plain tile SOL BB		23 01 90	2	3	4	5	6	7	9	12	15	18	20
	Plain tile SOL BB-Cu		23 01 91	2	3	4	5	6	7	9	12	15	18	20
	Mounting frame													
	SOL R1 W		23 09 20	1	2	3	4	5	6	8	10	12	15	16
	Frame connection set													
	SOL RV-W		23 01 72	-	1	2	3	4	4	6	8	9	12	12
	Hydraulic connection accessories													
	SOL 27 premium S	SOL SV-D	23 01 86	1	1	1	1	1	2	2	2	3	3	4
	SOL 27 premium S	SOL SV-A 50	23 13 22	-	1	2	3	4	4	6	8	9	12	12

The material list refers to hydraulic assemblies that are physically separate from each other. Up to 5 collectors can be interconnected hydraulically. From 6 collectors upwards, a separation into several hydraulic assemblies is required.

*When intending to interconnect individual hydraulic assemblies, the number of frame connection sets ordered must match this requirement.

Solar
Solar material compositions

Roof integration, vertical, side by side and above each other												
Description	Part no.	Number										
Flat-plate collectors												
SOL 23 premium	230020	2	4		6	8		10	12		16	
Hydraulic assemblies		1	1		2	2		2	4		4	
Collector rows above each other						2						
Collector arrays*		1	1	2	1	1	2	1	1	2	1	2
Collectors per collector array		2	4	2	6	8	4	10	12	6	16	8
Fixing accessories												
SOL AS	23 01 84	2	2	4	2	2	4	2	2	4	2	4
SOL AZ	23 01 83	1	2	2	3	4	4	5	6	6	8	8
Hydraulic connection accessories												
SOL SV-R	23 01 88	-	-	-	-	-	-	-	2	-	2	-
SOL SV-I	23 01 87	-	2	-	4	6	4	8	8	8	12	12
Corrugated stainless steel hose	07 34 69	2	2	4	2	2	4	2	4	4	4	4

The material list refers to hydraulic assemblies. Up to 5 collectors can be interconnected hydraulically. From 6 collectors upwards, a separation into several hydraulic assemblies is required.

* Collector arrays are physically separate from each other in the material list.

Roof integration, vertical, side by side																
Description	Part no.	Number														
Flat-plate collectors																
SOL 23 premium	230020	1	2		3	4		5	6		8		10		12	15	16
Hydraulic assemblies		1	1	1	1	1	1	1	2	2	2	2	2	2	3	3	4
Collector arrays*		1	1	2	1	1	2	1	1	2	1	2	1	2	3	3	4
Fixing accessories																	
SOL AS	23 01 84	1	1	2	1	1	2	1	1	2	1	2	1	2	3	3	4
Hydraulic connection accessories																	
SOL SV-R	23 01 88	-	-	-	-	-	-	-	1	-	1	-	1	-	-	-	-
SOL SV-I	23 01 87	-	1	-	2	3	2	4	4	4	6	6	8	8	9	12	12
Corrugated stainless steel hose	07 34 69	1	1	2	1	1	2	1	2	2	2	2	2	2	3	3	4

The material list refers to hydraulic assemblies. Up to 5 collectors can be interconnected hydraulically. From 6 collectors upwards, a separation into several hydraulic assemblies is required.

* Collector arrays are physically separate from each other in the material list.

Notes

Central Heating

Storage heater
Standard storage heater

SHF 4000

Programming unit

STANDARD STORAGE HEATER

NEW

SHF 2000-7000

APPLICATION: Storage heater for floorstanding installation as a standalone heater for apartments and commercial buildings, for utilising off-peak economy tariff models with blocking times.

EQUIPMENT/CONVENIENCE: Compact storage heater with an installed depth of 275 mm incl. 30 mm wall clearance grille. Integral electronic charge controller with C-Plus technology for fully automatic, demand-dependent charging without additional control units. Enable time for the charge can be set on the appliance. Integral room temperature controller, operated via a display screen and simple programming. Adjustable room temperature from +5 to +30 °C. Room temperature controller with programmable weekly timer with 2 preset and 1 individually programmable time programs. Adaptive control as a learning function for achieving the comfort temperature in timer mode at precisely the right time. Selectable window open detection function to avoid wasted energy. Programmable comfort and setback temperatures. Connected load can be reduced in four stages (100/91.6/83.3/75 %). Control input for AC signals (230 V alternating voltage). Control input for DC signals (0.91 - 1.43 V direct voltage) available as optional accessory. Optional booster heater can be integrated. High grade thermal insulation technology for high heat retention. With fluff filter in the air intake as standard. Particularly quiet with crossflow fans. Adjustable childproofing to prevent unintentional or unauthorised modifications to the programming unit.

INSTALLATION/SERVICE: Installation on the floor or off-floor on floor mounting brackets. Only one type of core stone (2 stones/pack). Easily accessible electrical connection with fold-out connection panel for recesses. Direct connection with NYM. Permanent control voltage needed.

SAFETY: Protection class I, safety temperature limiter.

- Intelligent automatic charging with C-Plus technology for convenient, energy efficient operation
- Enable time for the charge can be set directly on the appliance
- Electronic controller with LCD
- Integral RT controller with 7-day timer and open window detection
- Control unit with self-learning capability: Automatic calculation of the preheat time in timer mode
- Improved safety through manual reset high limit safety cut-out
- With three phase connection, it is possible to reduce the connected load
- Connecting assembly for single-phase connection with 1/N/PE
- Quiet crossflow fan
- As standard with fluff filter
- 230 V AC control signal, adjustable from 30 % to 80 %
- DC control signal 0.91-1.43 V
- Only one type of bricks (2 bricks/pack)

Part No.	Model	Rated connected load	Height	Width	Depth
200175	SHF 2000	2 kW	650 mm	605 mm	275 mm
200176	SHF 3000	3 kW	650 mm	780 mm	275 mm
200177	SHF 4000	4 kW	650 mm	955 mm	275 mm
200178	SHF 5000	5 kW	650 mm	1130 mm	275 mm
200179	SHF 6000	6 kW	650 mm	1305 mm	275 mm
200180	SHF 7000	7 kW	650 mm	1480 mm	275 mm

Depth including 30 mm wall clearance mesh

Specification

Model	SHF 2000	SHF 3000	SHF 4000	SHF 5000	SHF 6000	SHF 7000
Power supply	1/N/PE, 3/N/PE	1/N/PE ~ 230V, 3/N/PE ~ 400V	1/N/PE, 3/N/PE	1/N/PE, 3/N/PE	1/N/PE, 3/N/PE	1/N/PE, 3/N/PE
Frequency	50/- Hz	50/- Hz	50/- Hz	50/- Hz	50/- Hz	50/- Hz
Rated current	2,9 A	4,3 A	5,8 A	7,2 A	8,7 A	10,1 A
Fuses	10 A	10 A	10 A	16 A	16 A	16 A
Operating noise	30 dB(A)	32 dB(A)	33 dB(A)	34 dB(A)	34 dB(A)	34 dB(A)
Number of stone packs	6	9	12	15	18	21
Weight	32 kg	40 kg	48 kg	56 kg	64 kg	72 kg
Weight (incl. blocks)	118 kg	169 kg	220 kg	271 kg	322 kg	373 kg
Colour	alpine white	alpine white	alpine white	alpine white	alpine white	alpine white

Storage heater
Accessories for storage heaters

ACCESSORIES FOR STORAGE HEATERS

Booster heater assembly

Booster heaters
Kit complete with safety temperature controller and fixing materials. The booster heater can be switched on at core temperatures below 150 °C - 200 °C. The booster heater is operated via an internal or external room temperature controller.

Part No.	Model	Connected load	Suitable for
238723	Booster 0.35 kW	0,35 kW	Slimline storage heater 1.2 kW/standard storage heater 2 kW
238724	Booster 0.5 kW	0,5 kW	Slimline storage heater 1.8 kW/standard storage heater 3 kW
238725	Booster 0.8 kW	0,8 kW	Slimline storage heater 2.4 kW/standard storage heater 4 kW
238726	Booster 1 kW	1 kW	Slimline storage heater 3 kW/standard storage heater 5 kW/low-level storage heater 3.5 kW
238727	Booster 1.2 kW	1,2 kW	Slimline storage heater 3.6 kW/standard storage heater 6 kW
238728	Booster 1.5 kW	1,5 kW	Slimline storage heater 4.2 kW/standard storage heater 7 kW/low-level storage heater 5 kW

Vario panel

Vario panels
Set for equipment installation with ground clearance (100 mm); adjustable tilt.

Part No.	Model
182028	Vario mounting bracket, standard and low-level storage heater

Storage heater
Charge controllers elthermatic®

CHARGE CONTROLLERS ELTHERMATIC®

APPLICATION: Weather-compensated charge controllers for economic, convenient operation of electric storage heaters. Automatic calculation of required charge based on outside temperature.
INSTALLATION/SERVICE: Installation in the control panel/distribution board. Top-hat rail installation.

EAC 5

Charge controller EAC 5

Charge controller complete with outside temperature sensor. Reverse, spread and forward control. Self-learning control program with very long enable times.

- Can be used for all power supply conditions
- Self-learning control program for long enable times
- {Verschiedene Betriebsarten über Wochenschaltuhr programmierbar}
- Graphic touchscreen display for easy operation
- OD system, adjustable
- Control capacity max. 230 W
- Mounting on top hat rail, for installation in the sub-distribution board

Part No.	Model	Height	Width	Depth
202466	EAC 5	90 mm	54 mm	60 mm

ZSE 5

Charge controller ZSE 5

Group controller for apartment buildings

- Electronic group control unit for AC charge controllers
- Individually adjustable from -30 % to +10 %

Part No.	Model	Height	Width	Depth
202467	ZSE 5	90 mm	54 mm	60 mm

Storage heater
Room temperature controller eltromatic®

ROOM TEMPERATURE CONTROLLER ELTROMATIC®

Two-point room temperature controller for unfinished walls
Room temperature controller for in wall in an exclusive design. With replacement frame, can be integrated into a range of surface mounted switches, standard dimensions 50 x 50 mm. Thermal feedback. Setting range 5 °C to 30 °C. Switching differential ± 0.5 K. Power supply 230 V, 50 Hz.

RTF/RTU-TC

RTU-TC
- 2.2“ backlit colour touchscreen
- Electronic temperature control with a variety of convenient functions
- 7-day timer can be individually programmed
- Automatic heat-up time calculation
- Window open detection
- ON/OFF function
- Childproofing
- Breaking capacity ~16 (1) A, 230 V
- Suitable for integration in many switch ranges

Part No.	Model	Colour	Height	Width	Depth
238912	RTU-TC	white	84 mm	84 mm	40 mm

RTA-S UP

RTA-S UP
- Suitable for integration in many switch ranges
- Switching capacity ~ 10 (4) A, 250 V
- ON/OFF switch
- Temperature setback of approx. 4 K possible via external switch/time switch
- Temperature range restriction in the rotary controller

Part No.	Model	Colour	Height	Width	Depth
223344	RTA-S UP	pure white, RAL 9010	80 mm	80 mm	43 mm

2-point room temperature controller for wall mounting
Room temperature controller for wall mounting. Thermal feedback. Setting range 5 °C to 30 °C. Switching differential ± 0.5 K.

RTA-S2

RTA-S2
- Switching capacity ~ 10 (4) A, 250 V
- ON/OFF switch
- Temperature range restriction in the rotary controller

Part No.	Model	Colour	Height	Width	Depth
231061	RTA-S2	pure white, RAL 9010	75 mm	75 mm	26 mm

RTNZ-S2

RTNZ-S2
- Switching capacity ~ 10 (4) A, 250 V
- ON/OFF switch
- ON/OFF switch for booster heater
- Temperature range restriction in the rotary controller

Part No.	Model	Colour	Height	Width	Depth
231063	RTNZ-S2	pure white, RAL 9010	75 mm	75 mm	26 mm

Storage heater
Room temperature controller eltromatic®

Wireless 2-point room temperature controller
Wireless room temperature controller, perfect for modernisation. Various transmitters and receivers are available for all applications.

SRC C digital

SRC C digital
- Straightforward operation and programming
- 5 available operating modes
- Display of the required temperature
- Straightforward wiring
- Electronic temperature control and weekday control
- Adaptive control of the start of heating

Part No.	Model	Colour	Height	Width	Depth
234417	SRC C digital	White (similar to RAL 9010)	110 mm	110 mm	26 mm

SRC R UP

SRC R UP
- Breaking capacity from 30 °C room temperature: 7.5 A
- Breaking capacity up to 30 °C room temperature: 11 A
- For consumers in safety category I and II
- Installation on unfinished walls (deep junction box recommended)
- Emergency mode if wireless connection is lost

Part No.	Model	Colour	Height	Width	Depth
234420	SRC R UP	White (similar to RAL 9010)	85 mm	81 mm	42 mm

SRC R AP

SRC R AP
- Breaking capacity 13 (3) A, 230 V
- For consumers in safety category I and II
- Emergency mode if wireless connection is lost

Part No.	Model	Colour	Height	Width	Depth
234421	SRC R AP	White (similar to RAL 9010)	83 mm	78 mm	25 mm

Radiant heater
Radiant heater

RADIANT HEATER

APPLICATION: Wall mounted radiant heater as a standalone heater, as an efficient interim heater in spring/autumn, or for additional heat demand in the living space, bathroom, hallway or in work rooms. The frameless and very slimline design with its minimalist glass surface blends into any modern surroundings.
EQUIPMENT/CONVENIENCE: Glass fronting with large radiation panel spreads pleasant, even heat across the room without creating noise or air turbulence. Integral ON/OFF switch. 2 colour versions: Black and white.
INSTALLATION/SERVICE: Straightforward, stable wall mounting needs one person only: The wall mounting bracket is fitted to the wall separately from the appliance and can be readjusted later. All that remains is to hook the appliance into place. May be mounted horizontally or vertically. Fully wired. Due to the all-round bezel on the back of the appliance, the wall mounting bracket and electrical connection are no longer visible post-installation. The glass heater must be regulated via a controller that has electronic room temperature control with day of week control and adaptive control of the start of heating. The glass heater is maintenance-free.
SAFETY: ESG safety glass, overheating protection through integral high limit safety cut-out. Protection class I and IP 24 rating (splashproof).

- Wall mounted radiant heater with glass fronting, frameless
- Minimalist, flat design and opaque
- Pleasant radiated heat
- Portrait or landscape installation options
- Straightforward and quick installation by a single person

RHB 500

RHB 300-900

- Black glass surface
- Frameless with all-round chamfered edge

Part No.	Model	Connected load	Height	Width	Depth
234422	RHB 300	0,280 kW	600 mm	600 mm	49 mm
234423	RHB 500	0,47 kW	600 mm	1000 mm	49 mm
234424	RHB 700	0,66 kW	600 mm	1400 mm	49 mm
234425	RHB 900	0,85 kW	600 mm	1800 mm	49 mm

Installation and commissioning of the equipment is only permitted in connection with external room temperature controllers that fulfil the following functions: Electronic room temperature control with weekday control and adaptive control of when heating starts.
These requirements are fulfilled by the STIEBEL ELTRON room temperature controllers RTU-TC and SRC C digital.
Failure to observe these requirements will result in a loss of the CE designation.

RHW 500

RHW 300-900

- White glass surface
- Frameless with all-round chamfered edge

Part No.	Model	Connected load	Height	Width	Depth
234426	RHW 300	0,280 kW	600 mm	600 mm	49 mm
234427	RHW 500	0,47 kW	600 mm	1000 mm	49 mm
234428	RHW 700	0,66 kW	600 mm	1400 mm	49 mm
234429	RHW 900	0,85 kW	600 mm	1800 mm	49 mm

Installation and commissioning of the equipment is only permitted in connection with external room temperature controllers that fulfil the following functions: Electronic room temperature control with weekday control and adaptive control of when heating starts.
These requirements are fulfilled by the STIEBEL ELTRON room temperature controllers RTU-TC and SRC C digital.
Failure to observe these requirements will result in a loss of the CE designation.

Specification

Type	RH 300	RH 500	RH 700	RH 900
Weight	7.8 kg	12.9 kg	18.2 kg	23.4 kg
Connection	1/N/PE ~ 230 V	1/N/PE ~ 230 V	1/N/PE ~ 230 V	1/N/PE ~ 230 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Rated current	1.3 A	2.2 A	3.0 A	3.9 A
IP rating	IP 24	IP 24	IP 24	IP 24
Safety category	I	I	I	I

Natural stone heater

Natural stone heater

NATURAL STONE HEATER

APPLICATION: Wall mounted radiant heater as a standalone heater, as an efficient interim heater for spring/autumn, or for additional heat demand in the living space, bathroom, hallway or in work rooms.
EQUIPMENT/CONVENIENCE: The natural stone heater is a natural product with an individual character. Each appliance is unique in terms of colour and marbling. The high quality, 30 mm thick natural stone panel with heating conductor set into the back which provides even heating of the stone panel creates a large radiant heating surface.
INSTALLATION/SERVICE: The standard delivery includes a thermal reflector panel for wall mounting. Vertical and horizontal installation options. The wall mounting points are invisible from the front. Permanent connection with cable (approximate 1 m). The natural stone heater must be regulated via a controller that has electronic room temperature control with day of week control and adaptive control of the start of heating. The natural stone heater is maintenance-free.
SAFETY: Overheating protection through two safety temperature limiters. The heat conductor is PTFE-insulated and is routed in the channel carved into the back of the heater. VDE, protection class II and IP 66 rating (hoseproof).

- Wall mounted natural stone radiant heater
- Radiated heat generates an even room temperature
- Portrait or landscape installation options
- Two safety temperature controllers with automatic reset as overheating protection
- Heating conductor inside a duct system routed into the back
- Protection class II, hose-proof IP 66

Galaxis

Galaxis natural stone

- Marble
- White stone with a fine crystalline structure with slightly grey marbling

Part No.	Model	Connected load	Height	Width	Depth
233642	MHG 35 E	0,350 kW	400 mm	600 mm	70 mm
233643	MHG 65 E	0,650 kW	400 mm	1000 mm	70 mm
233644	MHG 85 E	0,850 kW	500 mm	1000 mm	70 mm
233645	MHG 115 E	1,150 kW	600 mm	1000 mm	70 mm
233646	MHG 145 E	1,450 kW	600 mm	1250 mm	70 mm
233647	MHG 165 E	1,650 kW	600 mm	1350 mm	70 mm

Installation and commissioning of the equipment is only permitted in connection with external room temperature controllers that fulfil the following functions: Electronic room temperature control with weekday control and adaptive control of when heating starts.
These requirements are fulfilled by the STIEBEL ELTRON room temperature controllers RTU-TC and SRC C digital.
Failure to observe these requirements will result in a loss of the CE designation.

Jura

Jura natural stone

- Marbled limestone
- Beige to medium-brown structure with partly fossilised sections

Part No.	Model	Connected load	Height	Width	Depth
233648	MHJ 35 E	0,350 kW	400 mm	600 mm	70 mm
233649	MHJ 65 E	0,650 kW	400 mm	1000 mm	70 mm
233650	MHJ 85 E	0,850 kW	500 mm	1000 mm	70 mm
233651	MHJ 115 E	1,150 kW	600 mm	1000 mm	70 mm
233652	MHJ 145 E	1,450 kW	600 mm	1250 mm	70 mm
233653	MHJ 165 E	1,650 kW	600 mm	1350 mm	70 mm

Installation and commissioning of the equipment is only permitted in connection with external room temperature controllers that fulfil the following functions: Electronic room temperature control with weekday control and adaptive control of when heating starts.
These requirements are fulfilled by the STIEBEL ELTRON room temperature controllers RTU-TC and SRC C digital.
Failure to observe these requirements will result in a loss of the CE designation.

Natural stone heater

Natural stone heater

Sahara

Sahara natural stone

- Marbled limestone
- Sandy colour tones, fine grain pigmentation
- Fine crystalline structure and opaque

Part No.	Model	Connected load	Height	Width	Depth
233654	MHS 35 E	0,350 kW	400 mm	600 mm	70 mm
233655	MHS 65 E	0,650 kW	400 mm	1000 mm	70 mm
233656	MHS 85 E	0,850 kW	500 mm	1000 mm	70 mm
233657	MHS 115 E	1,150 kW	600 mm	1000 mm	70 mm
233658	MHS 145 E	1,450 kW	400 mm	1250 mm	70 mm
233659	MHS 165 E	1,650 kW	600 mm	1350 mm	70 mm

Installation and commissioning of the equipment is only permitted in connection with external room temperature controllers that fulfil the following functions: Electronic room temperature control with weekday control and adaptive control of when heating starts.
These requirements are fulfilled by the STIEBEL ELTRON room temperature controllers RTU-TC and SRC C digital.
Failure to observe these requirements will result in a loss of the CE designation.

Prinos

Natural stone Prinos

- Marble
- White, fine-grained stone with light grey or even light yellow inclusions

Part No.	Model	Connected load	Height	Width	Depth
233660	MHP 35 E	0,350 kW	400 mm	600 mm	70 mm
233661	MHP 65 E	0,650 kW	400 mm	1000 mm	70 mm
233662	MHP 85 E	0,850 kW	500 mm	1000 mm	70 mm
233663	MHP 115 E	1,150 kW	600 mm	1000 mm	70 mm
233664	MHP 145 E	1,450 kW	600 mm	1250 mm	70 mm
233665	MHP 165 E	1,650 kW	600 mm	1350 mm	70 mm

Installation and commissioning of the equipment is only permitted in connection with external room temperature controllers that fulfil the following functions: Electronic room temperature control with weekday control and adaptive control of when heating starts.
These requirements are fulfilled by the STIEBEL ELTRON room temperature controllers RTU-TC and SRC C digital.
Failure to observe these requirements will result in a loss of the CE designation.

Soapstone

Sandstone natural stone

- Pearl-grey, velvety surface
- Extremely high storage capacity

Part No.	Model	Connected load	Height	Width	Depth
233666	SPH 35 E	0,350 kW	400 mm	600 mm	70 mm
233667	SPH 65 E	0,650 kW	400 mm	1000 mm	70 mm
233668	SPH 85 E	0,850 kW	500 mm	1000 mm	70 mm
233669	SPH 115 E	1,150 kW	600 mm	1000 mm	70 mm
233670	SPH 145 E	1,450 kW	600 mm	1250 mm	70 mm
233671	SPH 165 E	1,650 kW	600 mm	1350 mm	70 mm

Installation and commissioning of the equipment is only permitted in connection with external room temperature controllers that fulfil the following functions: Electronic room temperature control with weekday control and adaptive control of when heating starts.
These requirements are fulfilled by the STIEBEL ELTRON room temperature controllers RTU-TC and SRC C digital.
Failure to observe these requirements will result in a loss of the CE designation.

Specification

Type	MH/SPH 35 E	MH/SPH 65 E	MH/SPH 85 E	MH/SPH 115 E	MH/SPH 145 E	MH/SPH 165 E
Weight	21 kg	35 kg	44 kg	52 kg	62 kg	70 kg
Power connection	1/N ~ 230 V	1/N ~ 230 V	1/N ~ 230 V	1/N ~ 230 V	1/N ~ 230 V	1/N ~ 230 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Rated current	1,5 A	2,8 A	3,7 A	5,0 A	6,3 A	7,2 A
Protection	IP 25	IP 25	IP 25	IP 25	IP 25	IP 25
Schutzklasse	II	II	II	II	II	II

Radiant heater and Natural stone heater
Accessories for radiant heaters and natural stone heaters

ACCESSORIES FOR RADIANT HEATERS AND NATURAL STONE HEATERS

Two-point room temperature controller for unfinished walls
Room temperature controller for in wall in an exclusive design. With replacement frame, can be integrated into a range of surface mounted switches, standard dimensions 50 x 50 mm. Thermal feedback. Setting range 5 °C to 30 °C. Switching differential ± 0.5 K. Power supply 230 V, 50 Hz.

RTF/RTU-TC

RTU-TC
- 2.2“ backlit colour touchscreen
- Electronic temperature control with a variety of convenient functions
- 7-day timer can be individually programmed
- Automatic heat-up time calculation
- Window open detection
- ON/OFF function
- Childproofing
- Breaking capacity ~16 (1) A, 230 V
- Suitable for integration in many switch ranges

Part No.	Model	Colour	Height	Width	Depth
238912	RTU-TC	white	84 mm	84 mm	40 mm

Wireless 2-point room temperature controller
Wireless room temperature controller, perfect for modernisation. Various transmitters and receivers are available for all applications.

SRC C digital

SRC C digital
- Straightforward operation and programming
- 5 available operating modes
- Display of the required temperature
- Straightforward wiring
- Electronic temperature control and weekday control
- Adaptive control of the start of heating

Part No.	Model	Colour	Height	Width	Depth
234417	SRC C digital	White (similar to RAL 9010)	110 mm	110 mm	26 mm

SRC R UP

SRC R UP
- Breaking capacity from 30 °C room temperature: 7.5 A
- Breaking capacity up to 30 °C room temperature: 11 A
- For consumers in safety category I and II
- Installation on unfinished walls (deep junction box recommended)
- Emergency mode if wireless connection is lost

Part No.	Model	Colour	Height	Width	Depth
234420	SRC R UP	White (similar to RAL 9010)	85 mm	81 mm	42 mm

SRC R AP

SRC R AP
- Breaking capacity 13 (3) A, 230 V
- For consumers in safety category I and II
- Emergency mode if wireless connection is lost

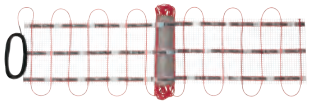
Part No.	Model	Colour	Height	Width	Depth
234421	SRC R AP	White (similar to RAL 9010)	83 mm	78 mm	25 mm

Floor tempering
thermofloor floor conditioning

THERMOFLOOR FLOOR CONDITIONING

APPLICATION: Heating mats for use as electric underfloor heating in new build and renovation projects. Installed directly below the floor covering, they quickly ensure pleasantly warm floor surfaces, independent of existing heating systems.
EQUIPMENT/CONVENIENCE: The low installed height enables usage in the tile adhesive below ceramic tiles or in the floating screed for carpeting and other floor coverings.
INSTALLATION/SERVICE: Trimming the support web allows the mats to be easily adapted to the space available.
SAFETY: Subject to 30 mA RCD being fitted, the appliance may be installed in safety zone 2.

FTM...B



FTM 150-1050 B

- Installed height approx. 4 mm
- Self-adhesive fabric with affixed heating conductor
- Output = 135 W/m² for short heat-up time
- Heat conductor spacing ≤ 9 cm
- Easy to engineer and install
- One connecting cable (5 m long)
- Calculated width = 0.5 m
- Even temperature distribution across the floor

Part No.	Model	Connected load	Power connection	Surface	Length
234548	FTM 150 B	135 W	1/N/PE~230 V	1 m²	2 m
234549	FTM 225 B	225 W	1/N/PE~230 V	1.5 m²	3 m
234550	FTM 300 B	300 W	1/N/PE~230 V	2 m²	4 m
234551	FTM 375 B	375 W	1/N/PE~230 V	2.5 m²	5 m
234552	FTM 450 B	470 W	1/N/PE~230 V	3 m²	6 m
234553	FTM 600 B	600 W	1/N/PE~230 V	4 m²	8 m
234554	FTM 750 B	750 W	1/N/PE~230 V	5 m²	10 m
234555	FTM 900 B	930 W	1/N/PE~230 V	6 m²	12 m
234556	FTM 1050 B	1040 W	1/N/PE~230 V	7 m²	14 m

FTB

FTB 160

- For tempering tiled showers
- Routing under safety zone 1 (requires a 30 mA RCD)
- Output = 200 W/m² for particularly short heat-up times
- Two 4 m long connecting cables
- Calculating width = 0.2 m
- Even temperature distribution across the floor
- Heating conductor spacing = 4.5 m
- Heating conductor loading = 9 W/m

Part No.	Model	Connected load	Power connection	Surface	Length
234834	FTB 160	160 W	1/N/PE~230 V	0.8 m²	4 m

Floor tempering
Accessories for floor tempering

ACCESSORIES FOR FLOOR TEMPERING

Underfloor temperature controller
APPLICATION: Underfloor temperature controller for setting the required floor temperature. Temperature capture via the supplied floor sensor.
EQUIPMENT/CONVENIENCE: Electronic controller with display and intuitive operation. Offers a variety of functions for convenient, efficient operation of underfloor heating mats.
INSTALLATION/SERVICE: For installation on unfinished walls in appliance boxes.

Specification

Model	RTF-TC	RTF-730
Rated voltage	230 V	230 V
Frequency	50/60 Hz	
Breaking capacity	16 A	16 A
Switching differential	0.4 K	1.0 K
Setting range	5-35 °C	5...35 °C
Colour	white	pure white, RAL 9010
Type of installation	Unfinished walls	Unfinished walls

RTF/RTU-TC

RTF-TC
- 2.2“ backlit colour touchscreen
- Electronic temperature control with a variety of convenient functions
- 7-day timer can be individually programmed
- Automatic heat-up time calculation
- Window open detection
- Boost function for quick heat-up
- ON/OFF function
- Childproofing
- Breaking capacity ~16 (1) A, 230 V
- Compatible with other underfloor temperature sensors

Part No.	Model	Height	Width	Depth
236724	RTF-TC	84 mm	84 mm	40 mm

RTF-730

RTF-730
- Large, easy to read display
- Use of self-explanatory symbols, without text
- Electronic temperature control with a variety of convenient functions
- Time switch operation with 7-day/day program, adjustable in 1 min intervals plus manual operation.
- Automatic heat-up time calculation
- Childproofing
- Breaking capacity ~16 (1) A, 230 V
- Diameter of underfloor temperature sensor up to 7 mm

Part No.	Model	Height	Width	Depth
236723	RTF-730	86 mm	86 mm	40 mm

Floor tempering
Accessories for floor tempering

Accessory sets
Sets contain the materials required for the electrical installation of a floor tempering system.

FT-FR 10

FT-FR 10
- Sensor conduit with metal sensor well for installing underfloor temperature sensors
- Suitable for underfloor temperature sensors up to 5 mm in diameter
- Delivery with 2 bends, 90° (anti-kink protection)
- Length 2 m

Part No.	Model
238474	FT-FR 10

FR TB

FR TB
- Sensor conduit with metal sensor well for installing underfloor temperature sensors
- Suitable for underfloor temperature sensors up to 9 mm in diameter
- Delivery with 2 bends, 90° (anti-kink protection)
- Length 2 m

Part No.	Model
234702	FR TB

BATHROOM RADIATORS

BHE Plus

APPLICATION: Well-finished bathroom radiator for individual use as a purely electrical appliance or for connection to the hot water central heating system. In both operating modes, ideal for heating and drying towels, for interim heating in spring/autumn or as a booster heater. Towels can easily be hung at multiple levels.

EQUIPMENT/CONVENIENCE: The appliances are simple and convenient to operate via the easily accessible electronic controller. The required room temperature can be adjusted on the programming unit from +10 to +28 °C in 0.5 °C increments. Programmable weekly timer with adaptive control as a learning function for achieving the comfort temperature at precisely the right time. Boost function for quick heat-up with full output. Duration of the boost function adjustable between 15 and 120 minutes; for the version with rapid heater between 10 and 60 minutes. Programmable setback temperature. The appliances are available in 4 output levels. A version with integral rapid heater is available for quick reheating of the room. The rapid heater can be activated for the preselected heating time.

INSTALLATION/SERVICE: Ready for installation; filled with heat transfer medium. Ready for connection, with 1 m power cable and mains plug.

SAFETY: Integral high limit safety cut-out. Installation in bathrooms can include inside safety zone 2.

- Wall mounted towel radiators
- Factory-filled with process medium for purely electrical operation
- May also be connected to the hot water heating network
- Electronic controller with LCD
- Weekly timer with self-learning function
- Boost function for quick heat-up
- Pre-installed, electric direct heater rod
- Safety through overheating protection
- Easy installation
- Power cable with profiled plug
- Splashproof IP 24, protection class II

Specification

Model	BHE 50 Plus	BHE 75 Plus	BHE 100 Plus	BHE 175 T Plus
Power supply	1/N 230 V 50 Hz	1/N 230 V 50 Hz	1/N 230 V 50 Hz	1/N 230 V 50 Hz
Frequency	50 Hz	50/- Hz	50 Hz	50 Hz
Rated voltage	230 V	230 V	230 V	230 V
Rated current	2,2 A	3,3 A	4,4 A	7,6 A
Setting range	10-28 °C	10-28 °C	10-28 °C	10-28 °C
IP-Rating	IP24	IP24	IP24	IP24
Protection class	II	II	II	II
Weight	12.00 kg	19.00 kg	23.00 kg	20.00 kg
Colour	commercial white, RAL 9016	commercial white, RAL 9016	commercial white, RAL 9016	commercial white, RAL 9016

BHE 50 Plus

BHE 50 Plus

- BHE Plus design line with circular pipes
- Factory-fitted with 500 W direct heater rod
- Heating output for DHW to EN442 = 367 W (at 75/65 – 20 °C)
- DHW heating output = 125 W at F/R-T (50/40-24 °C)

Part No.	Model	Connected load	Height	Width	Depth
239141	BHE 50 Plus	0,5 kW	1090 mm	500 mm	117 mm

Depth including wall mounting bracket

Bathroom radiators

Bathroom radiators

BHE 75 Plus

BHE 75 Plus

- BHE Plus design line with circular pipes
- Factory fitted with 750 W direct heater rod
- Heating output for DHW to EN442 = 576 W (at 75/65 – 20 °C)
- DHW heating output = 194 W at F/R-T (50/40-24 °C)

Part No.	Model	Connected load	Height	Width	Depth
238713	BHE 75 Plus	0,75 kW	1590 mm	500 mm	117 mm

Depth including wall mounting bracket

BHE 100 Plus

BHE 100 Plus

- BHE Plus design line with circular pipes
- Factory fitted with 1000 W direct heater rod
- DHW heating output to EN 442 = 876 W at F/R-T (75/65 - 20 °C)
- DHW heating output = 298 W at F/R-T (50/40-24 °C)

Part No.	Model	Connected load	Height	Width	Depth
238714	BHE 100 Plus	1 kW	1830 mm	550 mm	117 mm

Depth including wall mounting bracket

BHE 175 T Plus

BHE 175 T Plus

- BHE Plus design line with circular pipes
- Factory fitted with 750 W direct heater rod
- Integral quick heater offering 1.0 kW
- Heating output for DHW to EN442 = 576 W (at 75/65 – 20 °C)
- DHW heating output = 194 W at F/R-T (50/40-24 °C)

Part No.	Model	Connected load	Height	Width	Depth
238715	BHE 175 T Plus	1,75 kW	1590 mm	500 mm	130 mm

Depth including wall mounting bracket

Direct heating
Wall convectors

CND 200

Programming unit

WALL CONVECTORS

CND 75-200

APPLICATION: High quality, wall mounted duo convector as a standalone heater, as an efficient interim heater in spring/ autumn, or for additional heat demand in the living space, bathroom or utility rooms. The two integrated heating systems for radiant heating and convection heating ensure a pleasant and cosy room temperature. The elegant and minimalist design blends into any modern setting. Can be integrated into systems with central FIL-pilot control.

EQUIPMENT/CONVENIENCE: Designer radiator with 2 heating systems for radiant heating and convection, precise electronic control and intelligent energy saving functions. When the window is open, the appliance automatically switches to frost protection mode; the motion sensor detects when there is no longer anybody in the room and automatically lowers the set room temperature. The weekly timer offers 3 preset time programs that can be individually adjusted to suit current requirements. Frost protection setting 7 °C. The power cable has a FIL-pilot control core and is prewired for permanent connection. Omnipolar ON/OFF switch. User friendly thanks to top mounted user interface and easy to read display. Adjustable child-proofing to prevent unintentional or unauthorised adjustments being made at the programming unit.

INSTALLATION/SERVICE:: Installation needs one person only: The wall mounting bracket is fitted to the wall separately from the appliance and can be readjusted later. All that remains is to hook the appliance into place. The appliance has an approx. 1 m power cable for permanent connection with FIL-pilot control core. Maintenance-free.

SAFETY: Integral high limit safety cut-out.

- Wall mounted duo convector heaters with a heating output of 0.75 to 2 kW
- Modern and high grade design
- 2 heating systems for radiant heater and convection heater in a single appliance
- Electronic control unit with display
- Intelligent energy saving functions
- 7-day timer can be individually programmed
- Automatic setback of the set temperature when windows are open or rooms are not used
- Consumption indicator
- Fixed connection with pilot cable
- Splashproof IP 24, protection class II

Part No.	Model	Connected load	Height	Width	Depth
234813	CND 75	0,75 kW	504 mm	675 mm	120 mm
234814	CND 100	1 kW	504 mm	790 mm	120 mm
234815	CND 150	1,5 kW	504 mm	1010 mm	120 mm
234816	CND 200	2 kW	504 mm	1240 mm	120 mm

Depth including wall mounting bracket

Specification

Model	CND 75	CND 100	CND 150	CND 200
Power supply	1/N ~ 230 V	1/N ~ 230 V	1/N ~ 230 V	1/N ~ 230 V
Frequency	50 Hz	50 Hz	50 Hz	50 Hz
Rated voltage	230 V	230 V	230 V	230 V
Rated current	3,3 A	4,3 A	6,5 A	8,7 A
Setting range	10 - 30 °C	10 - 30 °C	10 - 30 °C	10 - 30 °C
IP-Rating	IP24	IP24	IP24	IP24
Protection class	II	II	II	II
Weight	6.70 kg	7.70 kg	9.70 kg	11.50 kg
Colour	white, RAL 9010	white, RAL 9010	white, RAL 9010	white, RAL 9010

Direct heating
Wall convectors

CON 20 Premium

Control panel

CON® 5-30 Premium

APPLICATION: High quality, wall mounted convector as a standalone heater, as an efficient interim heater in spring/autumn, or for additional heat demand in the living space, bathroom or in work rooms. The contemporary design, winner of the Red Dot Design Award, suits any setting.

EQUIPMENT/CONVENIENCE: Electronically controlled Premium convector heater with easy to read display and simple programming for silent and accurate heating of the indoor air. The required room temperature can be adjusted on the programming unit from +5 to +30 °C in 0.5 °C increments. Programmable weekly timer with 2 preset and 1 individually programmable time programs plus an additional 120-minute timer. With adaptive control as a learning function for achieving the comfort temperature in timer mode at precisely the right time. Programmable comfort and setback temperatures. Selectable window open detection function. Frost protection at 7 °C. Omnipolar ON/OFF switch. Stainless steel tubular heater with steel fins. High quality design with 3 mm aluminium front. Very user friendly due to top mounted user interface and large, easily legible display. Adjustable childproofing to prevent unintentional or unauthorised adjustments being made at the programming unit.

INSTALLATION/SERVICE:: Installation needs one person only: The wall mounting bracket is fitted to the wall separately from the appliance and can be readjusted later. All that remains is to hook the appliance into place. The appliance has an approx. 1.4 m power cable with right angle plug. Cable compartment at the back. Maintenance-free.

SAFETY: Integral safety temperature limiter.

- Elegant design with aluminium front
- Power cable with safety plug
- Electronic controller with LCD
- Weekly timer with 3 time programs, self-learning function and window open detection
- With 120-minute short-time timer
- Safety through overheating protection
- Splashproof to IP 24, safety category I
- Omnipolar ON/OFF switch
- Tubular stainless steel heater with steel fins
- Cable compartment at the back for the connecting cable
- Time buffering in the case of power outages lasting up to 12 hours

Part No.	Model	Connected load	Height	Width	Depth
237830	CON 5 Premium	0,5 kW	470 mm	345 mm	126 mm
237831	CON 10 Premium	1,0 kW	470 mm	470 mm	126 mm
237832	CON 15 Premium	1,5 kW	470 mm	625 mm	126 mm
237833	CON 20 Premium	2 kW	470 mm	780 mm	126 mm
237834	CON 30 Premium	3 kW	470 mm	1090 mm	126 mm

Depth including wall mounting bracket

Specification

Model	CON 5 Premium	CON 10 Premium	CON 15 Premium	CON 20 Premium	CON 30 Premium
Power supply	1/N/PE ~ 230 V	1/N/PE ~ 230 V	1/N/PE ~ 230 V	1/N/PE ~ 230 V	1/N/PE ~ 230 V
Frequency	50/- Hz	50/- Hz	50/- Hz	50/- Hz	50/- Hz
Rated voltage	230 V	230 V	230 V	230 V	230 V
Rated current	2,2 A	4,3 A	6,5 A	8,7 A	13 A
Setting range	5-30 °C	5-30 °C	5-30 °C	5-30 °C	5-30 °C
IP-Rating	IP24	IP24	IP24	IP24	IP24
Protection class	I	I	I	I	I
Weight	4.1 kg	5.9 kg	7.5 kg	9.3 kg	12.6 kg
Colour	alpine white	alpine white	alpine white	alpine white	alpine white

Direct heating
Wall convectors

CON 20 Premium

Control panel

reddot award 2018 winner

NEW

CON® 5-30 Premium U

APPLICATION: High quality, wall mounted convector as a standalone heater, as an efficient interim heater in spring/autumn, or for additional heat demand in the living space, bathroom or in work rooms. Can be integrated in systems with central FIL-pilot control. The contemporary design, winner of the Red Dot Design Award, suits any setting.
EQUIPMENT/CONVENIENCE: Electronically controlled Premium convector heater with easy to read display and simple programming for silent and accurate heating of the indoor air. The required room temperature can be adjusted on the programming unit from +5 to +30 °C in 0.5 °C increments. Programmable weekly timer with 2 preset and 1 individually programmable time programs plus an additional 120-minute timer. With adaptive control as a learning function for achieving the comfort temperature in timer mode at precisely the right time. Programmable comfort and setback temperatures. Selectable window open detection function. Frost protection setting 7 °C. The power cable has a FIL-pilot control core and is prewired for permanent connection. Omnipolar ON/OFF switch. Stainless steel tubular heater with steel fins. High quality design with 3 mm aluminium front. Very user friendly due to top mounted user interface and large, easily legible display. Adjustable childproofing to prevent unintentional or unauthorised adjustments being made at the programming unit.
INSTALLATION/SERVICE:: Installation needs one person only: The wall mounting bracket is fitted to the wall separately from the appliance and can be readjusted later. All that remains is to hook the appliance into place. The appliance has an approx. 1 m power cable for permanent connection with FIL-pilot control core. Maintenance-free.
SAFETY: Integral safety temperature limiter.

- Elegant design with aluminium front
- Fixed connection with pilot cable
- Electronic controller with LCD
- Weekly timer with 3 time programs, self-learning function and window open detection
- With 120-minute short-time timer
- Safety through overheating protection
- IP 24 rating (splashproof), protection class I
- Omnipolar ON/OFF switch
- Tubular stainless steel heater with steel fins
- Time buffering in the case of power outages lasting up to 12 hours

Part No.	Model	Connected load	Height	Width	Depth
201278	CON 5 Premium U	0,5 kW	470 mm	345 mm	126 mm
200268	CON 10 Premium U	1,0 kW	470 mm	470 mm	126 mm
200269	CON 15 Premium U	1,5 kW	470 mm	625 mm	126 mm
200270	CON 20 Premium U	2 kW	470 mm	780 mm	126 mm
200276	CON 30 Premium U	3 kW	470 mm	1090 mm	126 mm

Depth including wall mounting bracket

Specification

Model	CON 5 Premium U	CON 10 Premium U	CON 15 Premium U	CON 20 Premium U	CON 30 Premium U
Power supply	1/N/PE ~ 230 V	1/N/PE ~ 230 V	1/N/PE ~ 230 V	1/N/PE ~ 230 V	1/N/PE ~ 230 V
Frequency	50/- Hz	50/- Hz	50/- Hz	50/- Hz	50/- Hz
Rated voltage	230 V	230 V	230 V	230 V	230 V
Rated current	2,2 A	4,3 A	6,5 A	8,7 A	13 A
Setting range	5-30 °C	5-30 °C	5-30 °C	5-30 °C	5-30 °C
IP-Rating	IP24	IP24	IP24	IP24	IP24
Protection class	I	I	I	I	I
Weight	4.3 kg	5.9 kg	7.5 kg	9.3 kg	12.6 kg
Colour	alpine white	alpine white	alpine white	alpine white	alpine white

Direct heating
Wall convectors

CWM 2000

Programming unit

NEW

CWM 500-3000 P

APPLICATION: Compact, wall mounted convector as a standalone heater, as an efficient interim heater in spring/autumn, or for additional heat demand in the living space, bathroom or utility rooms. The timeless and very slimline design blends into any surroundings.

EQUIPMENT/CONVENIENCE: Electronically controlled convector with an easy to read display and simple programming for even, silent and accurate heating of the indoor air. The required room temperature can be adjusted on the programming unit from +5 to +30 °C in 0.5 °C increments. Programmable weekly timer with 2 preset and 1 individually programmable time programs. With adaptive control as a learning function for achieving the comfort temperature in timer mode at precisely the right time. Programmable comfort and setback temperatures. Selectable window open detection function to avoid wasted energy. Frost protection at 7 °C. Omnipolar ON/OFF switch. High grade stainless steel tubular heater with aluminium coated steel fins. Robust metal casing. Very user friendly due to top mounted user interface and large, easily legible display. Adjustable childproofing to prevent unintentional or unauthorised modifications to the programming unit.

INSTALLATION/SERVICE: Straightforward, stable wall mounting needs one person only: The wall mounting bracket is fitted to the wall separately from the appliance and can be readjusted later. All that remains is to hook the appliance into place. The appliance has a power cable with right angle plug. Maintenance-free.

SAFETY: Integral safety temperature limiter.

- Compact metal casing in a slimline design
- Electronic controller with LCD
- Weekly timer with 3 time programs, self-learning function and window open detection
- Safety through overheating protection
- Splashproof to IP 24, safety category I
- Omnipolar ON/OFF switch
- Tubular stainless steel heater with steel fins
- Power cable with safety plug

Part No.	Model	Connected load	Height	Width	Depth
200254	CWM 500 P	0,5 kW	450 mm	348 mm	100 mm
200255	CWM 750 P	0,75 kW	450 mm	426 mm	100 mm
200256	CWM 1000 P	1,0 kW	450 mm	426 mm	100 mm
200257	CWM 1500	1,5 kW	450 mm	582 mm	100 mm
200258	CWM 2000	2,0 kW	450 mm	738 mm	100 mm
200259	CWM 2500	2,5 kW	450 mm	894 mm	100 mm
200260	CWM 3000 P	3,0 kW	450 mm	1050 mm	100 mm

Depth including wall mounting bracket

Specification

Model	CWM 500 P	CWM 750 P	CWM 1000 P	CWM 1500	CWM 2000	CWM 2500	CWM 3000 P
Power supply	1/N/PE ~ 230 V	1/N/PE ~ 230 V	1/N/PE ~ 230 V	1/N/PE ~ 230 V	1/N/PE ~ 230 V	1/N/PE ~ 230 V	1/N/PE ~ 230 V
Frequency	50/- Hz	50/- Hz	50/- Hz	50/- Hz	50/- Hz	50/- Hz	50/- Hz
Rated voltage	230 V	230 V	230 V	230 V	230 V	230 V	~230 V
Rated current	2,2 A	3,3 A	4,3 A	6,5 A	8,7 A	10,9 A	13,0 A
Setting range	5 - 30 °C	5 - 30 °C	5 - 30 °C	5 - 30 °C	5 - 30 °C	5 - 30 °C	5 - 30 °C
IP-Rating	IP24	IP24	IP24	IP24	IP24	IP24	IP24
Protection class	I	I	I	I	I	I	I
Weight	4 kg	4.6 kg	4.6 kg	6 kg	7.7 kg	9.2 kg	10.9 kg
Colour	alpine white	alpine white	alpine white	alpine white	alpine white	alpine white	alpine white

Direct heating
Wall convectors

CWM 2000

NEW

Programming unit

CWM 500-3000 U

APPLICATION: Compact, wall mounted convector as a standalone heater, as an efficient interim heater in spring/autumn, or for additional heat demand in the living space, bathroom or utility rooms. The timeless and very slimline design blends into any surroundings. Can be integrated into systems with central FIL-pilot control.

EQUIPMENT/CONVENIENCE: Electronically controlled convector heater with easy to read display and simple programming for even, silent and accurate heating of the indoor air. The required room temperature can be adjusted on the programming unit from +5 to +30 °C in 0.5 °C increments. Programmable weekly timer with 2 preset and 1 individually programmable time programs. With adaptive control as a learning function for achieving the comfort temperature in timer mode at precisely the right time. Programmable comfort and setback temperatures. Selectable window open detection function to avoid wasted energy. Frost protection at 7 °C. With FIL-pilot control cable. Omnipolar ON/OFF switch. High grade stainless steel tubular heater with aluminium coated steel fins. Robust metal casing. Very user friendly due to top mounted user interface and large, easily legible display. Adjustable childproofing to prevent unintentional or unauthorised modifications to the programming unit.

INSTALLATION/SERVICE: Straightforward, stable wall mounting needs one person only: The wall mounting bracket is fitted to the wall separately from the appliance and can be readjusted later. All that remains is to hook the appliance into place. The appliance has an approx. 1 m power cable for permanent connection with FIL-pilot control core. Maintenance-free.

SAFETY: Integral safety temperature limiter.

- Compact metal casing in a slimline design
- Electronic controller with LCD
- Weekly timer with 3 time programs, self-learning function and window open detection
- Safety through overheating protection
- IP 24 rating (splashproof), protection class I
- Omnipolar ON/OFF switch
- Tubular stainless steel heater with steel fins
- Fixed connection with pilot cable

Part No.	Model	Connected load	Height	Width	Depth
200261	CWM 500 U	0,5 kW	450 mm	348 mm	100 mm
200262	CWM 750 U	0,75 kW	450 mm	426 mm	100 mm
200263	CWM 1000 U	1,0 kW	450 mm	426 mm	100 mm
200264	CWM 1500 U	1,5 kW	450 mm	582 mm	100 mm
200265	CWM 2000 U	2,0 kW	450 mm	738 mm	100 mm
200266	CWM 2500 U	2,5 kW	450 mm	894 mm	100 mm
200267	CWM 3000 U	3,0 kW	450 mm	1050 mm	100 mm

Depth including wall mounting bracket

Specification

Model	CWM 500 U	CWM 750 U	CWM 1000 U	CWM 1500 U	CWM 2000 U	CWM 2500 U	CWM 3000 U
Power supply	1/N/PE ~ 230 V	1/N/PE ~ 230 V	1/N/PE ~ 230 V	1/N/PE ~ 230 V	1/N/PE ~ 230 V	1/N/PE ~ 230 V	1/N/PE ~ 230 V
Frequency	50/- Hz	50/- Hz	50/- Hz	50/- Hz	50/- Hz	50/- Hz	50/- Hz
Rated voltage	230 V	230 V	230 V	230 V	230 V	230 V	230 V
Rated current	2,2 A	3,3 A	4,3 A	6,5 A	8,7 A	10,9 A	13,0 A
Setting range	5 - 30 °C	5 - 30 °C	5 - 30 °C	5 - 30 °C	5 - 30 °C	5 - 30 °C	5 - 30 °C
IP-Rating	IP24	IP24	IP24	IP24	IP24	IP24	IP24
Protection class	I	I	I	I	I	I	I
Weight	4 kg	4.6 kg	4.6 kg	6 kg	7.7 kg	9.2 kg	10.9 kg
Colour	alpine white	alpine white	alpine white	alpine white	alpine white	alpine white	alpine white

Direct heating
Wall convectors

CNS S

Programming unit

CNS 100-300 S

APPLICATION: Compact, wall mounted convector as a standalone heater, as an efficient interim heater in spring/autumn, or for additional heat demand in the living space, bathroom or utility rooms. The timeless and very slimline design suits any setting.

EQUIPMENT/CONVENIENCE: Mechanically controlled convector heater for even and silent heating of the indoor air. The required room temperature can be infinitely adjusted between approx. +6 and +30 °C at the programming unit. Frost protection at 7 °C. Omnipolar ON/OFF switch. High grade stainless steel tubular heater with aluminium fins. Robust metal casing. Adjustable security device to prevent unintentional or unauthorised adjustments being made at the temperature controller.

INSTALLATION/SERVICE: Straightforward, stable wall mounting needs one person only: The wall mounting bracket is fitted to the wall separately from the appliance and can be readjusted later. All that remains is to hook the appliance into place. The appliance has an approx. 1 m power cable with right angle plug. Maintenance-free.

SAFETY: Integral safety temperature limiter.

- Mechanical infinitely variable temperature controller
- ON/OFF switch
- Variable temperature controller
- Frost protection setting
- Stainless steel tubular heater element with aluminium fins
- Safety through overheating protection
- Splashproof IP 24, protection class II
- Power supply cable with mains plug

Part No.	Model	Connected load	Height	Width	Depth
220718	CNS 100 S	1,0 kW	450 mm	445 mm	100 mm
220722	CNS 200 S	2,0 kW	450 mm	740 mm	100 mm
220724	CNS 300 S	3,0 kW	450 mm	1040 mm	100 mm

Depth including wall mounting bracket

Specification

Model	CNS 100 S	CNS 200 S	CNS 300 S
Power supply	1/N ~ 220-240 V	1/N ~ 220-240 V	1/N ~ 230 V
Frequency	50/- Hz	50/- Hz	50/- Hz
Rated voltage	~230 V	~230 V	~230 V
Rated current	4,3 A	8,7 A	13,0 A
Setting range	6-30 °C	6-30 °C	6-30 °C
IP-Rating	IP24	IP24	IP24
Protection class	II	II	II
Weight	4.4 kg	6.8 kg	9.4 kg
Colour	alpine white	alpine white	alpine white

Note: Only for sales outside the EU.

Direct heating
Freestanding convector heaters

CNS 200 F

Programming unit

FREESTANDING CONVECTOR HEATERS

CNS 100-250 F

APPLICATION: Floorstanding convector heater with easy handling for diverse applications. Ideal where heat is required quickly on demand. The appliance is only suitable for well insulated rooms or occasional use.

EQUIPMENT/CONVENIENCE: Even and silent heating of the indoor air. The required room temperature can be infinitely adjusted between +6 °C and +30 °C at the temperature selector. Frost protection setting. The integral pendulum switch guarantees the highest possible level of operational safety. Additional protection against overheating through integral thermal link. High grade stainless steel tubular heater with aluminium fins. Robust metal casing. Very user friendly due to top-mounted controls.

INSTALLATION/SERVICE: Appliance has feet with castors as standard for use as a floorstanding convector. The appliance is supplied fully wired with power cable and mains plug.

SAFETY: Integral protection against overturning and safety temperature limiter.

- Highest safety through integral pendulum switch
- Feet with castors
- Mechanical thermostat
- Frost protection setting
- ON/OFF switch
- Stainless steel tubular heater element with aluminium fins
- Power cable (1,5 m long) with mains plug
- This product is only suitable for well insulated rooms or for occasional use.

Part No.	Model	Connected load	Height	Width	Depth
229790	CNS 100 F	1,0 kW	555 mm	445 mm	305 mm
229794	CNS 200 F	2,0 kW	555 mm	740 mm	305 mm
229795	CNS 250 F	2,5 kW	555 mm	890 mm	305 mm

Dimensions including castor feet

Specification

Model	CNS 100 F	CNS 200 F	CNS 250 F
Power supply	1/N ~ 220-240 V	1/N ~ 220-240 V	1/N ~ 230 V
Frequency	50/- Hz	50/- Hz	50/- Hz
Rated voltage	230 V	230 V	230 V
Rated current	4,3 A	8,7 A	10,9 A
Setting range	6-30 °C	6-30 °C	6-30 °C
IP-Rating	IP24	IP24	IP24
Protection class	II	II	II
Weight	4.9 kg	7.3 kg	8.6 kg
Colour	alpine white	alpine white	alpine white

CK Premium

Programming unit

QUICK-RESPONSE HEATERS

CK® Premium

APPLICATION: High grade, wall mounted rapid heater as an efficient standalone or booster heater for additional heat demand, especially for rooms that are not heated constantly, e.g. bathrooms. The appliance heats the indoor air quickly and evenly. The contemporary design, winner of the Red Dot Design Award, suits any setting.

EQUIPMENT/CONVENIENCE: Electronically controlled Premium rapid heater with easy to read display and simple programming for heating indoor air quickly. The required room temperature can be adjusted on the programming unit from +5 to +30 °C in 0.5 °C increments. Programmable weekly timer with 2 preset and 1 individually programmable time programs plus an additional 120-minute timer. With adaptive control as a learning function for achieving the comfort temperature in timer mode at precisely the right time. Programmable comfort and setback temperatures. Selectable window open detection function to avoid wasted energy. Frost protection at 7 °C. Omnipolar ON/OFF switch. Silent mode with switchable 1 kW heating stage and reduced fan speed. High grade design with 3 mm thick aluminium front. Very user friendly due to top mounted user interface and large, easily legible display. Adjustable childproofing to prevent unintentional or unauthorised modifications to the programming unit.

INSTALLATION/SERVICE: Straightforward, stable wall mounting needs one person only: The wall mounting bracket is fitted to the wall separately from the appliance and can be readjusted later. All that remains is to hook the appliance into place. The appliance has an approx. 1 m power cable with right angle plug. Maintenance-free.

SAFETY: Integral safety temperature limiter.

- Elegant design with aluminium front
- Electronic controller with LCD
- Silent mode with 1 kW base heating stage at 38 dB(A) and powerful 2 kW rapid heat-up stage
- Weekly timer with 3 time programs, self-learning function and window open detection
- With 120-minute short-time timer
- Safety through overheating protection
- Splashproof to IP 24, safety category I
- Omnipolar ON/OFF switch
- Power cable with safety plug

Part No.	Model	Connected load	Height	Width	Depth
237835	CK 20 Premium	2 kW	470 mm	345 mm	126 mm

Depth including wall mounting bracket

Specification

Model	CK 20 Premium
Power supply	1/N/PE ~ 230 V
Frequency	50/- Hz
Rated voltage	~230 V
Rated current	8,7 A
Operating noise	48 dB(A)
Setting range	5 - 30 °C
IP-Rating	IP24
Protection class	I
Weight	5.3 kg
Colour	alpine white

Direct heating
Quick-response heaters

CK Trend LCD

Programming unit

CK® Trend

APPLICATION: Compact, wall mounted rapid heater as a standalone heater in bathrooms, or as an efficient interim heater in spring/autumn and as a booster heater, e.g. in guest bedrooms or hobby rooms. The appliance heats the indoor air quickly and evenly.

EQUIPMENT/CONVENIENCE: Electronically controlled rapid heater with an easy to read display and simple programming for heating the indoor air quickly. The required room temperature can be adjusted on the programming unit from +5 to +30 °C in 0.5 °C increments. Programmable weekly timer with 2 preset and 1 individually programmable time programs. With adaptive control as a learning function for achieving the comfort temperature in timer mode at precisely the right time. Programmable comfort and setback temperatures. Selectable window open detection function to avoid wasted energy. Frost protection at 7 °C. High grade self-limiting ceramic heating element. Robust, resistant plastic casing. Very user friendly due to top mounted user interface and large, easily legible display. Adjustable childproofing to prevent unintentional or unauthorised modifications to the programming unit.

INSTALLATION/SERVICE: Straightforward, stable wall mounting needs one person only: The wall mounting bracket is fitted to the wall separately from the appliance and can be readjusted later. All that remains is to hook the appliance into place. The appliance has an approx. 1.5 m power cable with right angle plug. Cable compartment at the back and fluff filter in the air intake.

SAFETY: 3-stage safety concept with self-limiting ceramic heating element, temperature limiter and integral temperature fuse.

- Compact appliance in a plastic casing
- Electronic controller with LCD
- Weekly timer with 3 time programs, self-learning function and window open detection
- Maximum safety thanks to 3-stage overheating protection
- Splashproof IP 24, protection class II
- Fluff filter in the air intake
- Cable compartment at the back for the connecting cable
- Power cable with angled mains plug

Part No.	Model	Connected load	Height	Width	Depth
236653	CK 20 Trend LCD	2 kW	400 mm	275 mm	131 mm

Depth including wall mounting bracket

Specification

Model	CK 20 Trend LCD
Power supply	1/N ~ 220-240 V
Frequency	50/- Hz
Rated voltage	~230 V
Rated current	8,7 A
Operating noise	49 dB(A)
Setting range	5 - 30 °C
IP-Rating	IP24
Protection class	II
Weight	2.5 kg
Colour	alpine white

Direct heating
Quick-response heaters

CK®

APPLICATION: High grade, wall mounted rapid heater as an efficient standalone heater or booster heater for additional heat demand, especially for rooms that are not heated constantly, e.g. bathrooms. The appliances heat the indoor air quickly and evenly.
EQUIPMENT/CONVENIENCE: Mechanically controlled rapid heater for heating the indoor air quickly. The required room temperature can be variably adjusted via the rotary selector. Additional protection against overheating through integral thermal link.
INSTALLATION/SERVICE: Straightforward, stable wall mounting needs one person only: The wall mounting bracket is fitted to the wall separately from the appliance and can be readjusted later. The appliances are fully wired. Maintenance-free.
SAFETY: Integral safety temperature limiter.

Specification

Model	CK 20 Trend	CK 20 Plus
Power supply	1/N ~ 220-240 V	1/N/PE ~ 220-240 V
Frequency	50/- Hz	50/- Hz
Rated voltage	~230 V	230 V
Rated current	8,7 A	8,7 A
Operating noise	49 dB(A)	48 dB(A)
Setting range	7-35 °C	5-35 °C
IP-Rating	IP24	IP24
Protection class	II	I
Weight	2.5 kg	5.3 kg
Colour	alpine white	alpine white

CK 20 Trend

CK 20 Trend

- Compact appliance in a plastic casing
- Mechanical infinitely variable temperature controller
- Self-limiting PTC heating element
- Maximum safety thanks to 3-stage overheating protection
- Frost protection setting
- Fluff filter in the air intake
- Cable compartment at the back for the connecting cable
- Quiet operation

Part No.	Model	Connected load	Height	Width	Depth
234918	CK 20 Trend	2 kW	400 mm	275 mm	131 mm

Depth including wall mounting bracket
Note: Only for sales outside the EU.

CK 20 Plus

CK 20 Plus

- Elegant design with aluminium front
- Mechanical infinitely variable temperature controller
- Quiet crossflow fan
- Safety through overheating protection
- Frost protection setting

Part No.	Model	Connected load	Height	Width	Depth
202127	CK 20 Plus	2 kW	470 mm	345 mm	126 mm

Direct heating
Small heaters

IA 2024 outdoor

IA 2054 extreme

IA receiver

IA remote control

SMALL HEATERS

Infrared radiant heater

APPLICATION: infrared short-wave radiant heater for outdoor areas; ideal for patios, balconies or smoking areas in bars/ restaurants.

EQUIPMENT/CONVENIENCE: Effective and instant heat by means of infrared short-wave technology, short-wave A. Accurately targeted heat with adjustable reflectors. Heat radiation area 10-12 m². Aluminium casing. A wireless remote control and a wireless receiver are available for convenient control of the IA 2054 extreme.

INSTALLATION/SERVICE: Fully wired with an approx. 1.8 m long power cable and standard plug.

- Immediate heat at the press of a button
- IA 2024 outdoor: Connecting cable with standard plug
- IA 2054 extreme: With Hirschmann connector for wireless remote control
- IA 2054 extreme: Vertical and horizontal installation
- For outdoor areas only

Part No.	Model	Connected load	Height	Width	Depth
233889	IA 2024 outdoor	2 kW	145 mm	480 mm	145 mm
233882	IA 2054 extreme	2 kW	100 mm	610 mm	80 mm
233875	IA receiver	0 - 2 kW	300 mm	105 mm	30 mm
234728	IA remote control		120 mm	51 mm	26 mm

Specification

Model	IA 2024 outdoor	IA 2054 extreme	IA receiver	IA remote control
Power connection	1/N/PE~230 V	1/N/PE~230 V	1/N/PE~230 V	miscellaneous
Frequency	50 Hz	50 Hz	50 Hz	
Rated voltage	230 V	230 V	230 V	3 V
Rated current	8,5 A	8,5 A	0 - 8,5 A	
Type of installation	Horizontal	horizontal/vertical	Finished walls	miscellaneous
IP-Rating	IP24	IP54	IP54	IP20
Protection class	I	I	I	
Weight	2.50 kg	2.50 kg	0.800 kg	0.120 kg
Colour	white	silver	black	white

Direct heating
Small heaters

IW

IR quartz heater

APPLICATION: Wall mounted radiant heater for heating small rooms. Gives off noticeable warmth immediately without air movement. Particularly suitable for bathrooms, hobby rooms or wind-sheltered covered verandas.

EQUIPMENT/CONVENIENCE: Highly polished reflector which can be pivoted up to 30° and 3 quartz heater rods. Operation via pull cord. 3 heating stages.

INSTALLATION/SERVICE: Straightforward wall mounting. Direct electrical connection.

- Full metal casing
- Pull-cord activation
- Display of the switching position in the indicator window
- IP X4 rating (splashproof), protection class I

Part No.	Model	Connected load	Height	Width	Depth
229339	IW 120	1,2 kW	145 mm	535 mm	85 mm
229340	IW 180	1,8 kW	145 mm	535 mm	85 mm

Specification

Model	IW 120	IW 180
Power connection	1/N/PE~230 V	1/N/PE~230 V
Frequency	50/60 Hz	50/60 Hz
Rated voltage	230 V	~230 V
Rated current	5,2 A	7,8 A
Type of installation	Wall	Horizontal
Number of heating stages	3	3
IP-Rating	IPX4	IPX4
Protection class	I	I
Weight	1.55 kg	1.55 kg
Colour	silver	silver

Note: IW 180 only for sales outside the EU.

Hand dryer
Warm air hand dryer

HTE 4

HTE 5

DESIGN PLUS

reddot

GOOD DESIGN AWARD

平成 年度
グッドデザイン賞

WARM AIR HAND DRYER

HTE 4, 5 electronic

APPLICATION: High quality electric hot air hand dryer. Very quiet operation. Dries hands by evaporating the moisture with a heated warm jet of air. Ideally suited to the special demands made on washroom facilities in catering, commerce and public buildings with typical usage times. The contemporary design suits any setting.

EQUIPMENT/CONVENIENCE: Contactless operation via integral infrared proximity sensor. Maintenance-free operation thanks to electronically commutated DC motor. High air throughput.

INSTALLATION/SERVICE: Easy installation. Appliance without power cable. Direct power supply connection in appliance.

SAFETY: Integral safety temperature limiter.

- Hygienic and energy-saving throug IR proximity electronics
- Minimum operating costs
- Maintenance free, reliable operation
- Easy installation
- IP 23 rating (splashproof), protection class II
- HTE 4 in an impact and UV-resistant plastic casing
- HTE 5 in a particularly robust diecast aluminium casing

Part No.	Model	Rated output	Height	Width	Depth
073007	HTE 4	1800 W	250 mm	238 mm	230 mm
073008	HTE 5	1800 W	266 mm	257 mm	230 mm

Specification

Model	HTE 4	HTE 5
Power supply	1/N ~ 220-240 V	1/N ~ 220-240 V
Frequency	50/- Hz	50/- Hz
Rated voltage	230 V	~230 V
Rated current	7,8 A	7,8 A
Operating noise	54 dB(A)	54 dB(A)
Air velocity	12 m/s	12 m/s
Air flow rate	146 m³/h	146 m³/h
IP-Rating	IP23	IP23
Protection class	II	II
Casing material	Plastic	Diecast aluminium
Weight	2.5 kg	4 kg
Colour	white	white

Hand dryer
Warm air hand dryer

HTT 4 WS

HTT 5 WS

HTT 5 AM

HTT 5 SM

HTT 4, 5 turbotronic

APPLICATION: High quality electric hot air hand dryer with short drying time. Quiet operation. Dries hands by evaporating the moisture with a heated warm jet of air. Ideally suited to the special demands made on washroom facilities in catering, commerce and public buildings with typical usage times. The contemporary design suits any setting.

EQUIPMENT/CONVENIENCE: Contactless operation via integral infrared proximity sensor. Maintenance-free operation thanks to electronically commutated DC motor. High air throughput.

INSTALLATION/SERVICE: Easy installation. Appliance without power cable. Direct power supply connection in appliance.

SAFETY: Integral safety temperature limiter.

- Particularly short drying times
- Hygienic and energy-saving throug IR proximity electronics
- Minimum operating costs
- Maintenance free, reliable operation
- Electronically commutated DC motor
- Easy installation
- IP 23 rating (splashproof), protection class II
- HTT 4 in an impact and UV-resistant plastic casing
- HTT 5 in a particularly robust diecast aluminium casing

Part No.	Model	Rated output	Height	Width	Depth
074464	HTT 4 WS	2600 W	250 mm	238 mm	230 mm
074465	HTT 5 WS	2600 W	266 mm	257 mm	230 mm
182053	HTT 5 SM	2600 W	266 mm	257 mm	230 mm
182052	HTT 5 AM	2600 W	266 mm	257 mm	230 mm

Specification

Model	HTT 4 WS	HTT 5 WS	HTT 5 SM	HTT 5 AM
Power supply	1/N ~ 220-240 V	1/N ~ 220-240 V	1/N ~ 220-240 V	1/N ~ 220-240 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Rated voltage	~230 V V	~230 V	~230 V	~230 V
Rated current	11,3 A	11,3 A	11,3 A	11,3 A
Operating noise	68 dB(A)	68 dB(A)	68 dB(A)	68 dB(A)
Air velocity	28 m/s	28 m/s	28 m/s	28 m/s
Air flow rate	250 m³/h	250 m³/h	250 m³/h	250 m³/h
IP-Rating	IP23	IP23	IP23	IP23
Protection class	II	II	II	II
Casing material	Plastic	Diecast aluminium	Diecast aluminium	Diecast aluminium
Weight	2.70 kg	4.20 kg	4.20 kg	4.20 kg
Colour	alpine white	off white, RAL 9003	silver metallic	anthracite metallic

Hand dryer
Hand drier Highspeed

HAND DRIER HIGHSPEED

APPLICATION: High quality electric high-speed hand dryer with very short drying time. Dries hands by removing the moisture with a concentrated jet of air. Ideally suited to the special demands made on frequently used washroom facilities in catering, commerce and public buildings. This, the winner of the iF Design Award, suits any setting.
EQUIPMENT/CONVENIENCE: Contactless operation via integral infrared proximity sensor. High air flow rate for short drying times. Very low connected load. Robust impact-resistant casing made from diecast aluminium.
INSTALLATION/SERVICE: Straightforward installation. Appliance without power cable. Direct power supply connection in appliance.
SAFETY: Integral safety temperature limiter.

Ultronic S

Ultronic W

product design award

2012

Ultronic W/S

- Extremely short drying times of < 15 s
- Dries with an air speed of in excess of 180 mph
- Designed in a stainless steel look
- Reverse compatible wall fixing; matches existing holes from HTE and HTT models.
- Energy efficient and environmentally responsible
- Hygienic as hand drying requires no contact with the appliance
- IP 24 rating (splashproof), protection class I

Part No.	Model	Rated output	Height	Width	Depth
231582	Ultronic S	910 W	289 mm	257 mm	234 mm
231583	Ultronic W	910 W	289 mm	257 mm	234 mm

Specification

Model	Ultronic S	Ultronic W
Power supply	1/N/PE ~ 220-240 V	1/N/PE ~ 220-240 V
Frequency	50/60 Hz	50/60 Hz
Rated voltage	230 V	230 V
Rated current	4,0 A	4,0 A
Operating noise	82 dB(A)	82 dB(A)
Air velocity	94 m/s	94 m/s
Air flow rate	200 m³/h	200 m³/h
IP-Rating	IP24	IP24
Protection class	I	I
Casing material	Diecast aluminium	Diecast aluminium
Weight	4.4 kg	4.40 kg
Colour	Stainless steel look	off white, RAL 9003

Service

Service
Engineering services

Engineering service: heat load calculation

Calculating the standard heat load to DIN EN 12831 in line with the detailed procedure, calculating the size of the heat generator and heat transfer system on a room by room basis. The order form required for these services and the associated questionnaire can be obtained from the STIEBEL ELTRON trade partner internet portal or from your contact. Reimbursing / offsetting the cost of these services is not possible. In addition to the binding order confirmation, the following documents are required for further processing: Layout / details regarding the equipment level of the residential unit, dimensioned floor plans, views and cut-away drawings, description of the building structure and EnEV verification if applicable.

Part No.	Model
240587	Heat load calculation to DIN EN 12831
303540	Heat load calculation, apartment building
303541	Heat load calculation, non-residential buildings

Engineering service, cooling load calculation

Calculation of the max. cooling load of rooms and buildings to VDI 2078. Calculation of dynamic hourly room temperatures with the relevant influencing factors, such as geometry, structural physics, usage, as well as internal and external loads and operating modes.

Part No.	Model
341599	Cooling load calculation, detached house
341600	Cooling load calculation, apartment building
341601	Cooling load calculation, non-residential buildings

Engineering service: heat pump

System engineering and sizing of a heating heat pump system and a second heat generator for central heating and DHW heating if applicable, including a hydraulic and electrical system diagram, as the basis for final engineering. The technical questionnaire required for this service is available from the STIEBEL ELTRON trade partner internet portal or from your contact. After the heat pump system installation has been confirmed, the costs for this service will be reimbursed upon request.

Part No.	Model
240588	Heat pump system design service
303542	Heat pump, non-residential buildings

Engineering service: ventilation equipment

System engineering and sizing of a ventilation unit and air distribution system for one residential unit, including verification of the ventilation concept as production information. The order form required for these services and the associated technical questionnaire can be obtained from the STIEBEL ELTRON trade partner internet portal or from your contact person. Reimbursing/offsetting the cost of these services is not possible. In addition to the binding order confirmation, dimensioned floor plans, views and cut-away drawings are required for further processing. Our service includes the above planning for one ventilation unit or residential unit. Identical residential units, such as in an apartment building, are included in the scope of the performance of our engineering service.

Part No.	Model
240592	Engineering service: ventilation equipment, 3D

Service
Engineering services

Engineering service, solar technology

System engineering, simulation and sizing of a solar thermal system, including a hydraulic and an electrical system diagram, and a routing and installation plan as the basis for production information. The technical questionnaire required for this service is available from the STIEBEL ELTRON trade partner internet portal or from your contact person. After the system installation has been confirmed, the costs for this service will be reimbursed upon request.

Part No.	Model
240591	Engineering service, solar technology

Notes

TERMS OF PAYMENT AND DELIVERY OF STIEBEL ELTRON INTERNATIONAL GMBH FOR COMMERCIAL COURSE OF BUSINESS ABROAD

1. APPLICABILITY

1.1. All our supplies - also in the future - exclusively take place on the basis of these Terms of Payment and Delivery. They are accepted by the Customer at the latest with placing the order however with the acceptance of the first supply, and shall apply for the entire duration of the business relationship. We hereby expressly contradict to any opposing business and purchasing conditions of the Customer. Deviations from our terms/conditions shall be effective only if confirmed by us in writing.

1.2. General terms and conditions of the customer apply only to that extent, when we agreed them expressly in writing. This written-form requirement cannot be waived.

2. PRICES, PACKAGING, TERMS OF PAYMENT, SET-OFF, RIGHT OF RETENTION

2.1. Our offers are non-binding. The agreement is formed only through our written confirmation or through delivery.

2.2. The invoice for orders for which no individual fixed price is agreed on is issued on the basis of the list prices applicable on the day of delivery.

2.3. Prices and discounts quoted verbally shall be effective only if confirmed by us in writing.

2.4. All prices are understood free carrier (FCA) our factories in Holzminden, Eschwege, Poprad, Ayutthaya and Tianjin including cardboard packaging, or free on board (FOB) at a German port (Incoterms 2010). Should the need for special packaging arise, we reserve the right to charge for this separately and additionally.

2.5. Unless otherwise agreed in writing, our invoices shall be paid against prepayment in the currency indicated in the invoice. Unless otherwise agreed in writing, payment in Euros shall be deemed agreed on.

2.6. If the products are exported, the Customer will comply with the German export rules and regulations, and point out to its buyers that German export rules and regulations are applicable in the case of an exportation of products. The Customer undertakes to provide the information necessary to obtain an (import) export permit already when the Customer places the order. If at the Customer's request deliveries are passed on without customs clearance, the Customer shall be liable for any additional or extra payments demanded by the German customs authorities. If the exportation of the goods is prohibited or not permitted by the German authorities although such a permit is required, the Customer cannot derive any claims against us from this. The same shall apply if, for reasons that we are not responsible for, the importation of the goods into the country of destination is prevented or delayed by the authorities there.

2.7. The Customer is entitled to set off or retain claims only if they are undisputed or have been ascertained legally binding. The Customer shall have a right of retention only if its counterclaims are based on the same contractual relationship.

3. DELIVERY/ACCEPTANCE/IMPOSSIBILITY OF PERFORMANCE/DELAY/TAKE-BACK

3.1. A delivery period specified in the order shall be binding only if confirmed by us in writing. Delivery shall be deemed to have been made within an agreed delivery period if the goods to be delivered have left our plant before the end of the delivery period, or if the Customer is obliged to notify us prior to delivery of his readiness to collect or take delivery of the goods, but has not done so, and we notify the Customer of our readiness to make shipment. In the latter case, delivery shall be deemed to be made when the written notification of readiness to make shipment is mailed by us.

3.2. The delivery period shall be extended in a reasonable way if the Customer subsequently requests changes or additions. The same shall apply in the event of the occurrence of unforeseen difficulties beyond our control, e.g. force majeure, lawful labour disputes, disruptions of business affecting us or our suppliers.

3.3. All delivery obligations are subject to timely and proper delivery to us, also of suppliers' parts, if delivery is impossible within the agreed delivery period because of such circumstances or, if no such delivery period is agreed on, within three months of receipt of the order, we can cancel the agreement. The Customer shall not have any claims against us whatsoever in any of these cases, especially no claims to compensation for default damage and no damage claims.

3.4. Compensation for any default damage can be demanded by the Customer only in the event of wilful act or gross negligence on our part. This shall not apply if we commit to a binding delivery date in the confirmation of order and culpably fail to deliver on or before such date. In any case of default, our liability shall be limited to the foreseeable loss hich typically arises, unless we intentionally violate the agreement or such breach of contract is attributable to us. The foreseeable loss which typically arises will generally not exceed the double amount of the order value affected by default.

3.5. In the event of default, we shall have the right to fix a reasonable deadline for the Customer to declare whether he wishes to cancel the agreement and/or demand damages instead of performance. If the Customer does not make a statement within that deadline, his right to cancel the agreement or to demand damages instead of performance shall lapse.

3.6. Goods are always shipped for the Customer's account and at the Customer's risk. All risks shall pass over to the Customer as soon as the goods are handed over to the carrier or leave our warehouse for shipment. In all other respects, the Incoterms 2010 shall be applicable.

3.7. The fulfilment of this contract has the reservation that no obstacle in form of German, US-American or other applicable national, EU or international provisions of foreign trade legislation and no embargos or sanctions are in force.

3.8. If the ordering party has the desire to return defect-free and correctly delivered goods, the ordering party can apply for a take-back. It is in our free discretion to take back or not to take-back the goods in question, especially after verification of age (not older than 6 months) and condition, against a markdown of at least 20% of the value of the goods. The ordering party has to bear all costs related to the take-back.

4. CUSTOMER'S OBLIGATION TO COMPLAIN, LIABILITY FOR DEFECTS

4.1. Our Customer shall not have any claims because of defects of the goods unless the Customer properly performed all of his obligations to inspect the goods and to complain of defects pursuant to sec. 377 HGB (German Commercial Code).

4.2. Any transportation or shipping damage is to be reported in writing by the Customer to the carrier immediately upon receipt of the goods. In addition, we are to be informed without undue delay about the damage, if possible by telefax. The Customer shall bear any damage or any loss of rights incurred by the carrier or by us in consequence of failure to make an immediate report.

4.3. If a defect which we are responsible for existed already at the time of the passing of the risk, we shall be obliged to remedy the defect or, at our option, to make substitute delivery. If we are not prepared or able to do so, in particular if this is delayed unreasonably for reasons that we are responsible for, or if remedial action/substitute delivery fails in some other way, the Customer shall have the right - subject to clause 5 of these General Terms of Payment and Delivery - to assert the rights otherwise provided for by law in the event of a defect.

4.4. If we remedy a defect, our obligation also includes payment of all expenses to remedy the defect, especially transportation, forwarding, labour and material costs, unless they are increased due to the fact that the defective goods were taken to a different place than the place of performance.

4.5. The limitation period for all rights pertaining to defects shall be two years but for use in commercial companies, craft businesses, industrial companies or comparable activities the limitation period shall be one year; in other respects, the statutory provisions shall apply. Any other more extensive statutory warranty rights shall be unaffected by this.

4.6. However, the Customer shall have rights of recourse only to the extent that he did not make any agreement with his buyer which goes beyond the statutory rights in the event of a defect.

5. DAMAGES

For damage which is not caused to the actual object of delivery itself, we shall be liable on whatever legal basis only:

1. in the full amount of the damage in the case of wilful intent and the case of gross negligence on the part of management and/or executive staff, and also
2. subject to subparagraph 4 in any case of culpable violation of essential contractual obligations and
3. outside such obligations and subject to subparagraph 4 also for gross negligence on the part of persons employed by us for the performance of our contractual obligations, unless we can exonerate ourselves by virtue of trade customs,
4. in the two cases of subparagraph 2 and 3 above, limited to the amount of damage foreseeable and typical for the contract in question,
5. for defects of the goods which were maliciously concealed by us or whose absence was guaranteed by us,
6. for defects of the goods to the extent that the Product Liability Act provides for liability for personal injury or damage to privately used things,
7. in case of any liability based on an injury of life, body or health. Further claims shall be excluded.

6. RETENTION OF TITLE

6.1. We retain title to all goods delivered until all of our current and future claims against the Customer have been discharged.

6.2. Any processing or transformation by the Customer of the goods delivered shall always be done for us. If the goods are processed with other things not belonging to us, we acquire co-ownership of the new thing in the proportion of the value of the goods delivered and transformed or processed (final invoice amount including VAT) to the other processed things at the time of processing. In all other respects, the same shall apply to the thing created through processing as to the object of purchase delivered subject to retention of title.

6.3. If the goods delivered are mixed inseparably with other things not belonging to us, we shall acquire co-ownership to the new thing in the proportion of the value of the object of the purchase (final invoice amount including VAT) to the other mixed things at the time of intermixture. If intermixture takes place in such a way that the Customer's thing is to be regarded as the main thing, it is agreed that the Customer shall transfer co-ownership to us on a pro rate basis. The Customer shall safekeep for us the sole ownership or co-ownership thus created. The Customer assigns to us by way of security especially also those claims which he obtains against a third party through the combination of the goods delivered with a piece of real estate. This claim shall be subject analogously to the above provisions.

6.4. Any pledge and any transfer of title by way of security is inadmissible as long as we retain title. The Customer must inform us promptly of any pledge or other third-party seizure of the goods title to which is retained by us or of the assigned claims, and must assist us in every way in the intervention.

6.5. The customer may sell the goods title to which we retain, in the ordinary course of business, but only for immediate payment on delivery or subject to retention of title. The claims arising from the resale or from any other legal reason (insurance, tort, etc.) with respect to the goods title to which we retain (including all claims to payment of the balance on a current account) are hereby assigned already by the Customer with all ancillary claims to us.

6.6. The Customer is obliged at our request to inform the buyers in writing of the assignment and to give us all information necessary to assert our rights against the buyers, to provide documents and to hand over bills of exchange. For this purpose the Customer must allow us to inspect his records in this respect, if necessary.

6.7. The Customer shall have the right until further notice to collect the claims assigned to us. Any assignment or pledge of these claims is admissible only with our written consent. In the event of the discontinuation of payments, failure to honour a check or a bill of exchange made out by the Customer, an application for the institution of insolvency proceedings, or the institution of such proceedings, or in the case of a foreign customer if proceedings similar to insolvency proceedings or judicial or out-of-court composition proceedings are opened, the right to resell the goods and to collect the assigned claims shall end.

6.8. Under any of the circumstances described in clause 6.7, the Customer must give us access to the goods still in his possession, send us an exact list of the goods, separate the goods and hand over the goods to us. We also have the right to demand the assignment of the Customer's claims for possession against third parties or to cancel the agreement. In either case, whether we take back the goods or assert our rights of retention, we need not cancel the agreement. Neither any of these acts nor a pledge of the goods title to which is retained shall constitute a cancellation of the agreement unless this is expressly declared by us.

6.9. If the value of the security existing for us exceeds our total claims by more than 20%, we will at the Customer's written request release an appropriate part of such security at our option.

6.10. The costs for the performance of the co-operation duties set out in clause 6.4 and clause 6.6 in connection with all rights arising from the retention of title and all costs for preserving and storing the goods shall be borne by the customer.

7. LABELLING OF GOODS, PATENT GUARANTEE, REDEMPTION AND ENVIRONMENT FRIENDLY DISPOSAL OF ELECTRONIC DEVICES.

Any change in the goods, the removal of device numbers and type designations as well as labels which constitute a designation of origin for the Customer or a third party or could create the impression that the product is a special product are inadmissible unless expressly agreed on in writing by the parties. Per the EU guideline 2002/96/EC dated January 27, 2003 (Directive of the European Parliament and of the Council on Waste Electrical and Electronic Equipment) and the county-specific regulations released due to this regulation the purchaser as importer / manufacturer according to law inside the member States of the European Union is obliged to disposal or to let disposal the devices, stated in EU-Guideline and in the country-specific regulations, at his own expenses.

8. PLACE OF PERFORMANCE/JURISDICTION

The place of jurisdiction and of performance for all mutual services is Holzminden. However, we also have the right to sue at the Customer's domicile. German law is applicable. The applicability of the provisions of the United Nations Convention on the International Sale of Goods (CISG) is expressly excluded.

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STIEBEL ELTRON is represented in over 120 countries worldwide

STIEBEL ELTRON have a policy of continuous improvement; we therefore reserve the right to alter specifications and prices without notice. The information contained in this brochure is correct at the time of going to press, but you are advised to consult your dealer or the company before purchasing. Although every care has been taken in the reproduction of product finishes in this brochure, the photographs should only be taken as a guide.

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