Engineering and installation WPL-A 05 HK 230 Premium WPL-A 07 HK 230 Premium

STIEBEL ELTRON

Engineering and installation

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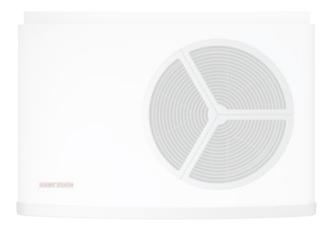
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Specification

Dimensions in the diagrams are in millimetres unless stated otherwise. Pressure figures may be stated in pascals (MPa, hPa, kPa) or in bars (bar, mbar). The details of threaded connections are given in accordance with ISO 228. Fuse types and sizes are stated in accordance with VDE. Output data applies to new appliances with clean heat exchangers.

WPL-A Premium





Appliance types and applications

Appliance types and applications

	WPL-A 05 HK 230 Premium	WPL-A 07 HK 230 Premium
Ideal for the following:		
Detached and two-family house	•	•
Apartment building	•	•
Non-residential building		
Suitable for the following building projects:		
New build	•	•
Modernisation, heating flow temperature < 75 °C	· <u> </u>	•
With the following functions and features:		
Heating	•	•
Cooling	•	•
DHW heating with a floor mounted cylinder	•	•
DHW heating with a cylinder module	•	•
Mono mode DHW heating > 60 °C	•	•
Integral booster heater for mono energetic operation	•	•
Appliance installation		
External installation	•	•
Little installation effort, compact	•	•
Florible evetem colution for the fall spins.		
Flexible system solution for the following:		
Combination of several heat pumps (cascade)	•	·
Installation in tight spaces Swimming pool water heating	·	<u>-</u>
Mono mode operation	·	-
Mono energetic operation	·	•
Combination with other heat generators (dual mode)	•	•
combination with other heat generators fund modes	-	

WPL-A Premium



At a glance

- » Air source heat pump installed outdoors for heating and cooling
- » Inverter technology: Variable speed compressor for perfectly matched heating output
- » 75 °C flow temperature enables high DHW temperatures and use in modernisation projects
- » Low operating noise thanks to infinitely adjustable fan speed and encapsulated refrigerant circuit
- » Futureproof and eco-friendly refrigerant with high efficiency
- » Highest efficiency all year round for low operating costs thanks to optimally matched components
- » Can be integrated into a home network and controlled via smartphone

Safety and quality











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; also provides efficient cooling via circuit reversal. Suitable for new build and modernisation due to very high flow temperatures all year round.

EQUIPMENT / CONVENIENCE: Optimum noise reduction due to encapsulated refrigerant circuit and 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 heat pumps achieve very high flow temperatures even at low outside temperatures. This ensures 60 °C in the DHW cylinder without electrical backup all year round. In combination with the ISG, the on-site heat pump controller can be used to control the system in the home network or via a mobile device. Heat and electricity metering is implemented using refrigerant circuit data. An emergency/booster heater enables mono energetic operation. The refrigerant circuit works with the eco-friendly and futureproof refrigerant R454 C. It has optimum properties for heat pump applications.

EFFICIENCY: Due to the refrigerant used and the optimally matched components, efficiency can be maintained at a high level all year round. Energy efficient defrosting is carried out as necessary 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.

Function

Heat is extracted from the outdoor air via the heat exchanger (evaporator) on the air side across the entire application range (see specification). The heating water is heated to the flow temperature in the heat exchanger on the water side (condenser) using electrical energy (compressor). At low air temperatures, the humidity in the air precipitates as hoarfrost on the evaporator fins. This hoarfrost is automatically defrosted. Water created by this defrosting process collects in the defrost pan and is drained off via a hose. The energy required for defrosting is drawn from the heating system. The heat pump automatically reverts to heating mode at the end of the defrost cycle. The heat pump manager and output control function match the heat pump heating output variably to the actual heat demand.

Air source heat pumps WPL-A Premium

Specification

Specification			
		WPL-A 05 HK 230 Premium	WPL-A 07 HK 230 Premium
		202669	200123
Heating output			
Heating output at A7/W35 (min./max.)	<u>kW</u>	2.65/7.40	2.65/10.75
Heating output at A2/W35 (min./max.)	<u>kW</u>	2.10/6.55	2.10/9.70
Heating output at A-7/W35 (min./max.)	kW	2.05/4.97	2.05/6.87
Heating output at A7/W35 (EN 14511)	kW	3,31	3,31
Heating output at A2/W35 (EN 14511)	kW	3,19	4,3
Heating output at A-7/W35 (EN 14511)	kW	4,97	6,87
Heating output at A-7/W55 (EN 14511)	kW	4,94	7,01
Heating output at A-15/W35 (EN 14511)	kW	4,18	6,4
Heating output in reduced night mode A-7/W35	kW	3,4	5,2
Heating output in max. reduced night mode A-7/W35	kW	2,9	2,9
Heating output in reduced night mode A-7/W55	kW	3,2	4,9
Heating output in max. reduced night mode A-7/W55	kW	2,7	2,7
Max. cooling capacity at A35/W7	kW	4,73	7,3
Cooling capacity at A35/W7 partial load	kW	1,81	3,31
Max. cooling capacity at A35/W18	kW	6,86	10,15
Cooling capacity at A35/W18 partial load	kW	3,37	4,94
Power consumption			
Power consumption at A7/W35 (EN 14511)	kW	0,61	0,61
Power consumption at A2/W35 (EN 14511)		0,69	1
Power consumption at A-7/W35 (EN 14511)		1,44	2,36
Power consumption at A-7/W55 (EN 14511)		1,97	2,97
Power consumption at A-15/W35 (EN 14511)		1,44	2,4
Power consumption, emergency/booster heater		6,2	6,2
Coefficients of performance		· ,	·
COP at A7/W35 (EN 14511)		5,42	5,42
COP at A2/W35 (EN 14511)		4,6	4,3
COP at A-7/W35 (EN 14511)		3,45	2,93
COP at A-7/W55 (EN 14511)		2,51	2,36
COP at A-15/W35 (EN 14511)		2,9	2,67
SCOP (EN 14825)		4,7	4,88
Max. cooling capacity factor at A35/W7		2,86	2,35
Cooling capacity factor at A35/W7 partial load		2,97	3,02
Max. cooling capacity factor at A35/W18		3,84	2,87
Cooling capacity factor at A35/W18 partial load		4,35	4,28
Sound emissions		-1,55	4,25
Sound power level W35 (EN 12102)	dB(A)	48,00	48,00
Sound power level W55 (EN 12102)		47,00	47,00
Sound power level was (EN 12102)	dB(A)	58	59
Sound power level, reduced night mode			55
Sound power level, reduced night mode		47	47
Application limits		47	47
	°C	-25	-25
Min. application limit, heat source		-25	-25
Max. application limit, heat source		40	40
Min. application limit on the heating side			15
Max. application limit on the heating side	<u>°C</u>	75	75
Application limit heat source at W65	<u>°C</u>	-25	-25
Min. cooling mode application limit for outside temperature	<u>°C</u>	15	
Max. cooling mode application limit for outside temperature	<u>°C</u>	40	40
Energy data			
Energy efficiency class		A+++/A+++	A+++/A+++

Air source heat pumps WPL-A Premium

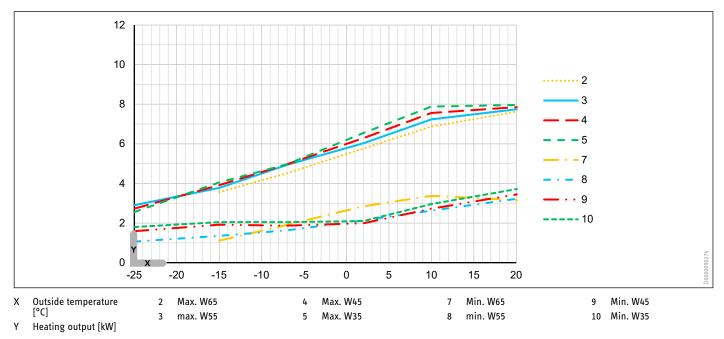
		WPL-A 05 HK 230 Premium	WPL-A 07 HK 230 Premium
Electrical data		WIE A 05 IIR 250 I Tellifulli	WIL A OF THE 250 FEMILIAN
Max. power consumption without emergency/booster heater	kW	2,9	5,4
Rated voltage, compressor		230	230
Rated voltage, control unit		230	230
Rated voltage, comton unit		230	230
	<u> </u>		1/N/PE
Control unit phases			
Control unit phases		· · · · · · · · · · · · · · · · · · ·	1/N/PE
Emergency/booster heater phases		2/N/PE	2/N/PE
Compressor fuse protection	A	1 x B 25	1 x B 25
Control unit fuse protection	A	1 x B 16	1 x B 16
Emergency/booster heater fuse protection	A	2 x B 16	2 x B 16
Starting current	A	2	2
Max. operating current	A	12,5	24
Max. mains impedance Zmax to EN 61000-3-11		0,33	0,33
Versions			
Refrigerant		R454 C	R454 C
Refrigerant charge	<u>kg</u>	3	3
CO ₂ equivalent (CO ₂ e)	t	0,44	0,44
Global warming potential of the refrigerant (GWP100)		148	148
IP rating		IP 14B	IP 14B
Condenser material		1.4401/Cu	1.4401/Cu
Dimensions			
Height	<u>mm</u>	900	900
Width	<u>mm</u>	1270	1270
Depth	<u></u>	593	593
Weights			
Weight	kg	135	135
Connections			
Connection, heating flow/return		28 mm	28 mm
Heating water quality requirements			
Water hardness	°dH	≤3	≤3
pH value (with aluminium fittings)		8,0-8,5	8,0-8,5
pH value (without aluminium fittings)		8,0-10,0	8,0-10,0
Conductivity (softening)	μS/cm	<1000	<1000
Conductivity (desalination)	<u></u> μS/cm	20-100	20-100
Chloride	mg/l	<30	<30
Oxygen 8-12 weeks after filling (softening)	<u></u>	<0.02	<0.02
Oxygen 8-12 weeks after filling (desalination)	mg/l	<0.1	<0.1
Values			
Permissible operating pressure, heating circuit	MPa	0,3	0,3
Heating flow rate (EN 14511) at A7/W35, B0/W35 and 5 K	<u></u>	0,56	0,56
Flow rate on heat source side		2250	2250
Nominal heating flow rate at A-7/W35 and 7 K		0,64	0,842
Nominal internal pressure drop, heating			88
Min. heating flow rate		0,64	0,64
min. Incading now rate		0,04	0,04

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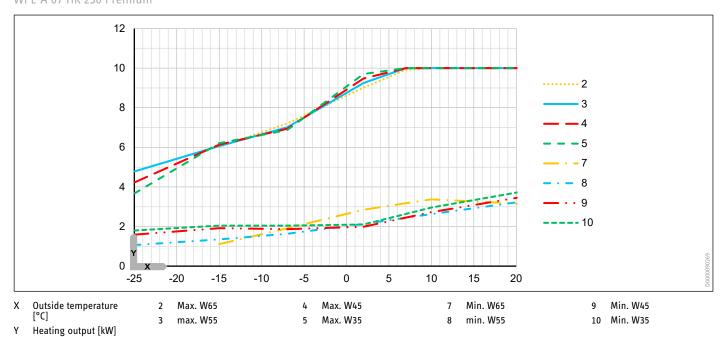
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Output data

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WPL-A 07 HK 230 Premium



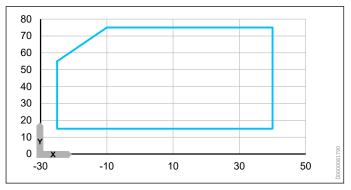
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Application limits

Heating

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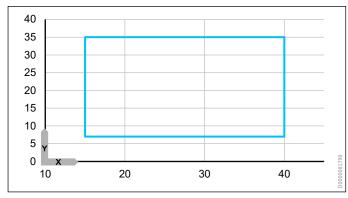


- X Outside temperature [°C]
- Y Flow temperature [°C]

Cooling

WPL-A 05 HK 230 Premium

WPL-A 07 HK 230 Premium



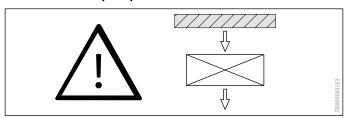
- X Outside temperature [°C]
- Y Flow temperature [°C]

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Installation location requirements

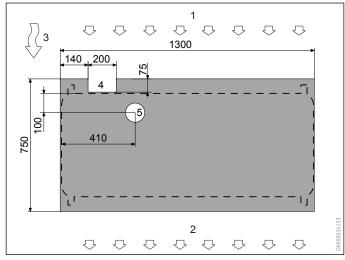
- » Never install the appliance inside a shaft.
- » The heat pump module must be level (horizontal).
- » The main wind direction must not be towards the fan.
- » When selecting the installation site, remember that the appliance generates noise during operation.
- » Maintain as small a clearance as possible between the heat pump module and the hydraulic module in order to keep line losses to a minimum.
- » The heat pump module must not become covered with snow in winter or submerged if there is heavy rainfall.
- » The appliance must be firmly attached to the mounting rail, which in turn must be secured to the foundation/kerbstones.

Installation in an open space



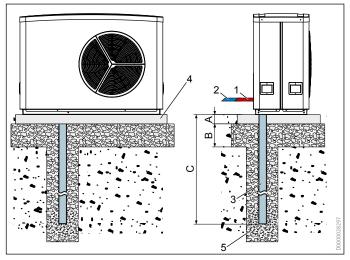
The appliance is designed for siting in front of a wall. Observe the minimum clearances. If the appliance is installed in an open space or on a roof, protect the air intake side. Do this by erecting a wall to shield it against the wind.

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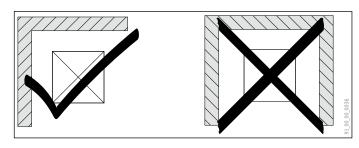
- 1 Air intake
- 2 Air discharge
- 3 Main wind direction
- 4 Supply line recess
- 5 Condensate drain recess

Example: Laying pipes above ground

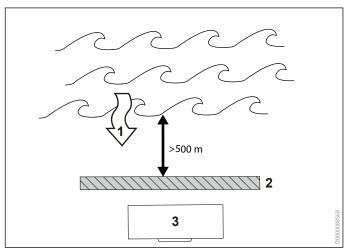


- A 10
- B 300
- C Depth of frost line
- 1 Heating flow
- 2 Heating return
- 3 Condensate drain
- 4 Foundation
- 5 Gravel bed

Installation conditions



Installation in coastal areas

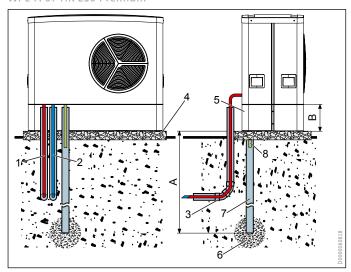


- 1 Main wind direction
- 2 Building, wall or wind protection
- 3 appliance

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Mounting bracket

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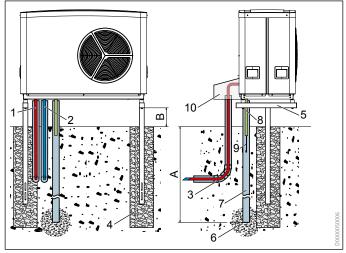


- A Depth of frost line
- B Height of the mounting bracket
- 1 Heating flow
- 2 Heating return
- 3 Conduit for supply line
- 4 Foundation
- 5 Mounting bracket
- 6 Gravel bed
- 7 Condensate drain conduit
- 8 Condensate drain

		MK 1
		232129
Height	<u></u>	245
Width	<u></u>	1260
Depth	<u></u>	575
Weight	kg	135

T-support

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- A Depth of frost line
- B 300
- 1 Heating flow
- 2 Heating return
- 3 Conduit for supply line
- Foundation
- T-support
- 6 Gravel bed
- 7 Condensate drain conduit
- Condensate drain
- 9 Ribbon heater
- 10 Cover

		SK 1
		232964
Height	mm	950
Depth	mm	570
Weight	kg	175

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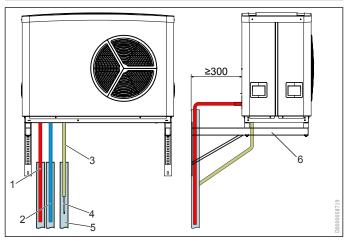
Wall mounting bracket

WPL-A 05 HK 230 Premium WPL-A 07 HK 230 Premium



Note
To prevent disturbance due to structure-borne noise transmission, never install the wall mounting bracket on the external walls of living areas or bedrooms.

▶ Install the wall mounting bracket on a garage wall, for example.



- Heating flow
- 2 Heating return
- Condensate drain 3
- Ribbon heater
- Condensate drain conduit
- Wall mounting bracket

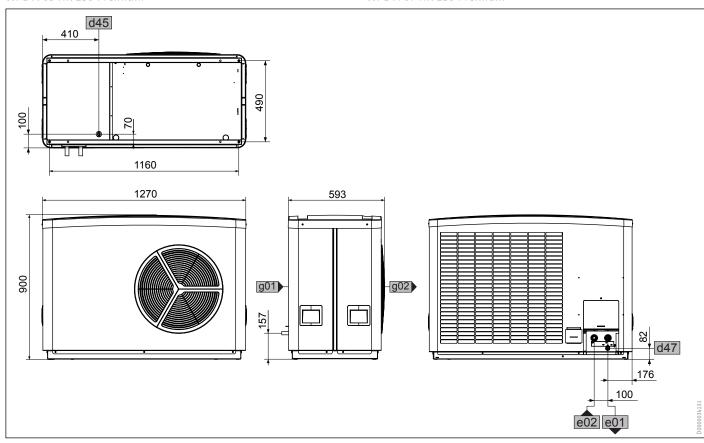
		WK 2
		234722
Support length	mm	800
Weight	kg	175

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Siting

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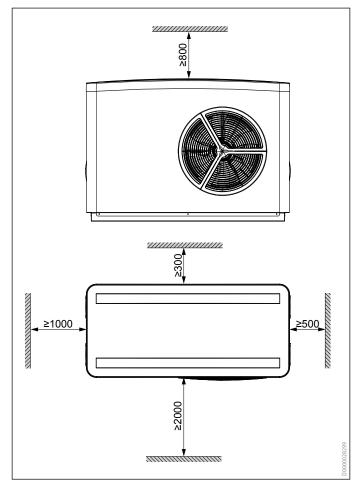
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				WPL-A 05 HK 230 Premium	WPL-A 07 HK 230 Premium
e01	Heating flow	Type of connection		Plug-in connection	Plug-in connection
		Diameter	mm	28	28
e02	Heating return	Type of connection		Plug-in connection	Plug-in connection
		Diameter	mm	28	28
d45	Condensate drain	Diameter	mm	29,6	29,6
d47	Drain				
g01	Air intake				
g02	Air discharge				

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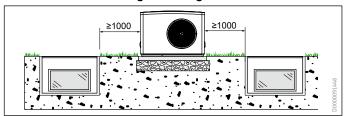
Minimum clearances



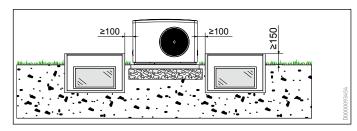
Minimum clearances to light wells

In order to comply with the appliance's safety concept, safety clearances to light wells must be observed.

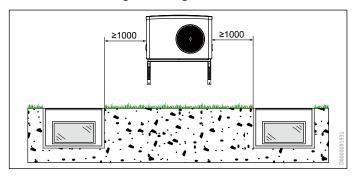
Foundation installation, light well at ground level



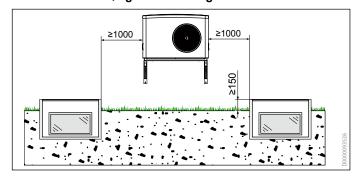
Foundation installation, light well above ground level



Bracket installation, light well at ground level



Bracket installation, light well above ground level



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Installation - cascade

If the heating output of the largest heating heat pump is insufficient, several heat pumps are started in addition as a cascade.

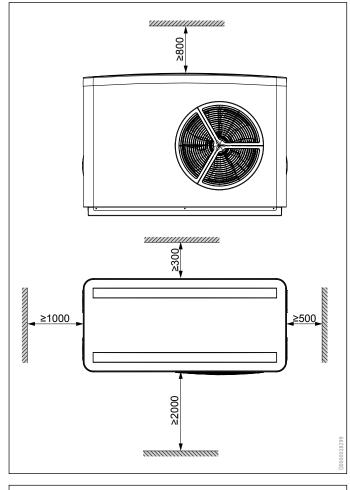
Cascades can comprise heat pumps of the same output or ones with different ratings.

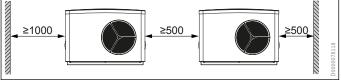
The heat pumps must belong to the same product group.

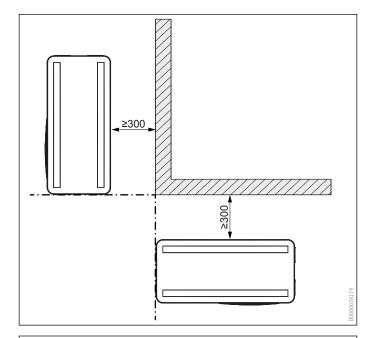
Control system

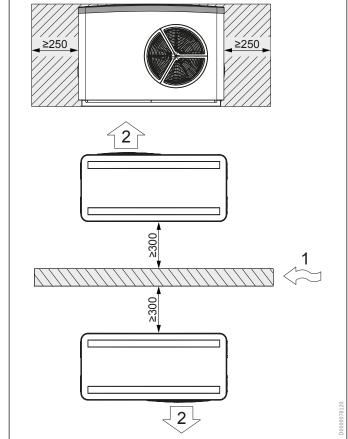
Heat pumps / function	WPM	WPE	FET
1	1		
2	1		
3-6	1	1	
Cooling			1

Minimum clearances









- Main wind direction
- 2 Air discharge
- 3 Wall or wind protection

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Instantaneous water cylinders

Instantaneous water cylinders can be operated in two operating modes. A distinction is made between zoned and non-zoned operation.

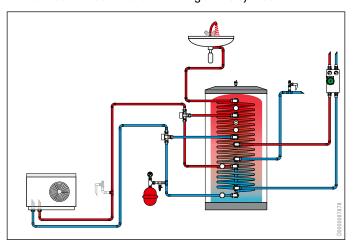
Zoned operation

Zoned operating mode is used for simultaneous DHW heating and room heating.

The temperature level in the cylinder is divided into an upper and a lower zone.

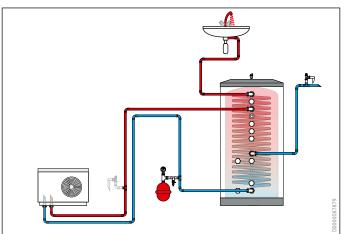
The upper zone is used for DHW heating and the lower zone for room heating.

The maximum flow rates for charging and discharging must be maintained in order to ensure zoning in the cylinder.



Non-zoned operation

Non-zoned operating mode is only used for DHW heating. The entire heat content of the cylinder is available for DHW heating.



Hydraulic connection

In zoned operation, the cylinder is charged in two zones.

The cylinder is charged in the upper zone for DHW heating and in the lower zone for room heating. Charging is switched over accordingly with the diverter valves.

In non-zoned operation, the connection to the heat pump is made without diverter valves.

Automatic changeover

Automatic and demand-dependent charging and discharging must be ensured so that the instantaneous water cylinder can be used simultaneously for room heating and DHW heating.

The changeover is brought about with the use of two diverter valves.

The diverter valves are controlled by the control unit subject to the upper and lower temperature sensors.

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Sizing tables

Underfloor heating in the lead room

Heat pump	System water content	16 x 2 mm	, installa-	alla- work 20 x 2.25 mm,		Buffer cylinder required	Buffer cy volume	linder	Booster heater
	min. litres	Surface area m²	Circuits n x m	Surface area m²	Circuits		Area heating min. litres	Heating element min. litres	
WPL-A 05 HK 230 Premium	20	21	3x70	21	2x70	No	100	100	Enable
WPL-A 07 HK 230 Premium	20	21	3x70	21	2x70	No	100	100	Enable

DHW heating

Dilw ileating						
		Non-zoned	Zoned			
		DHW heating	DHW heating and room heating			
	SBB 301 WP SBB 302 WP SBB 401 WP SOL SBB 501 WP SBBE 301 WP SBBE 302 WP SBBE 501 WP SBB 500-1 Plus SBB 400-1 Plus SBB 500-1 Plus SBB 600 WP SOL SBB 600 WP SOL SBB 200 HSB 200	601 W SC 801 W SC 801 W SC 801 W SC 1001 W SC 1501 W SC	BS 601 W S BS 601 W S BS 801 W BS 801 W S BS 1001 W BS 1001 W BS 1501 W BS 1501 W			
WPL-A 05 HK 230 Premium	<u>x x x x </u>	_ <u>x x x x</u>	x _x _x _x			
WPL-A 07 HK 230 Premium	<u> </u>	_ <u>x x x x</u>	<u>x x x x x </u>			

Buffer cylinders

	SBP 100 SBP 100 classic	BP 200	SBP 400 E SBP 700 E	BP 700	SBPE 400	SBP 1000 E	SBP 1500 E	SBP 1500 E	SBP 1000 E SOL	SBP 1500 E SOL	SBP 1000 E cool	SBP 1000 E cool	SBP 1500 E cool	HSBC 200	HSBC 200 L	HSBC 300 cool	00
WPL-A 05 HK 230 Premium	_x _x	X			_	_	_	_	_	_	_	_		_x	_	X	
WPL-A 07 HK 230 Premium	_x _x	_X			_	_	_	_	_	_	_	_	_	_x	_	_X	_

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Systems without a buffer cylinder

In systems without a buffer cylinder, the minimum flow rate of the heat pump must be ensured via permanently open heating circuits for the underfloor heating system.

The design of the underfloor heating system determines the possible flow rate through the permanently open heating circuits.

If the flow rate of the permanently open heating circuits is less than the minimum flow rate of the heat pump, check whether the available external delivery head of the heating circulation pump is sufficient.

Delivery head test

$$\Delta p_{HM} \ge (V_{min} / V_{HKo})^2 \times (\Delta p_{HK} + \Delta_{pV}) + \Delta p_{WP}$$

 Δp_{UPmin} External delivery head of the heating circulation pump at

Minimum flow rate of the heat pump V_{min}

Design flow rate of the permanently open heating cir- V_{HKo}

Design pressure drop of the permanently open heating Δp_{HK}

circuits

 Δp_V Design pressure drop to and from floor distributors

Pressure drop in the heat pump at V_{min} Δp_{WP}

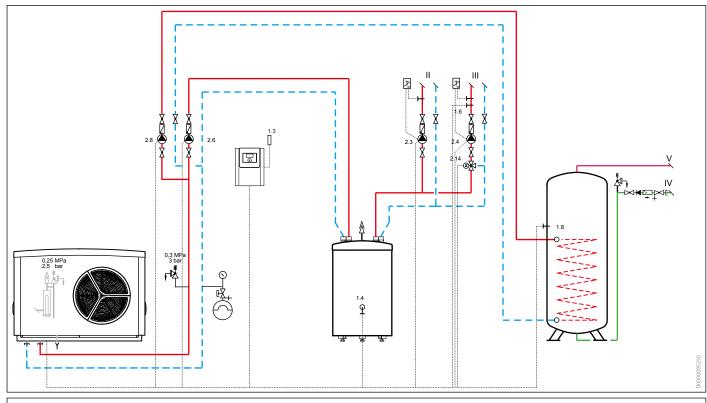
For heat pumps with an integral circulation pump, the pressure drop of the heat pump (Δp_{WP}) is not taken into account.

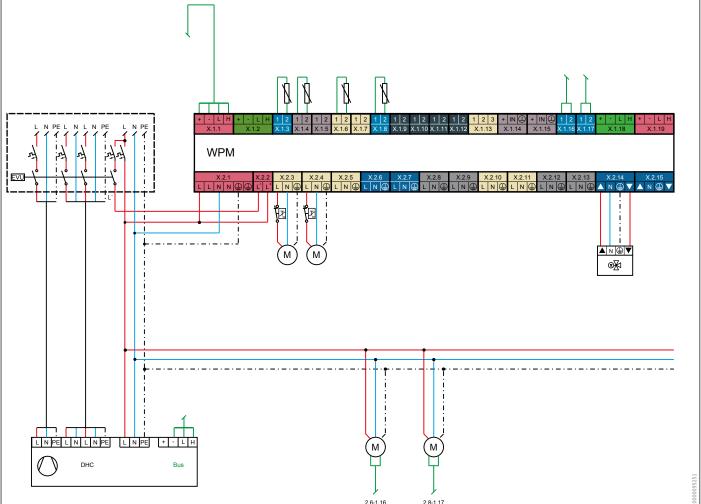
If the external delivery head is not sufficient for the minimum flow rate, additional heating circuits for the underfloor heating must be permanently opened.

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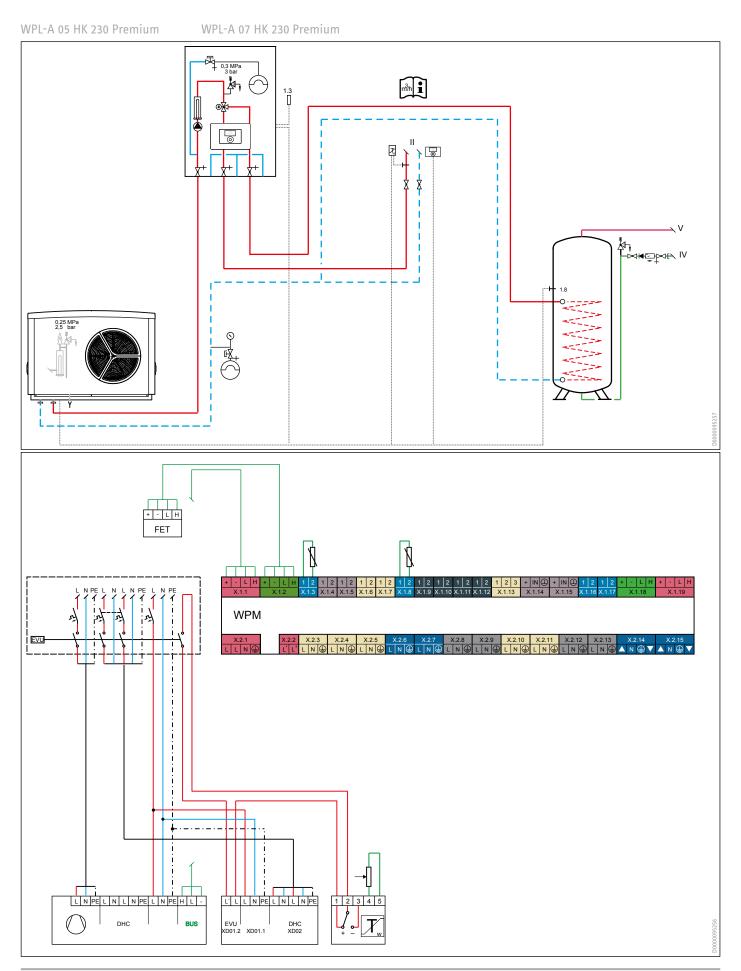
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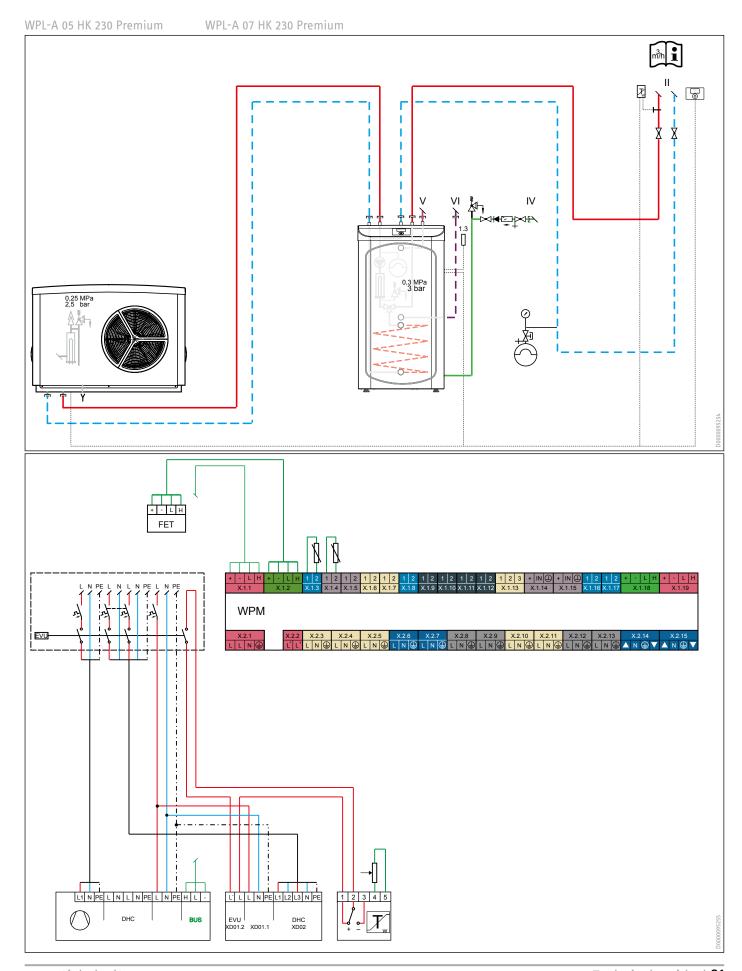




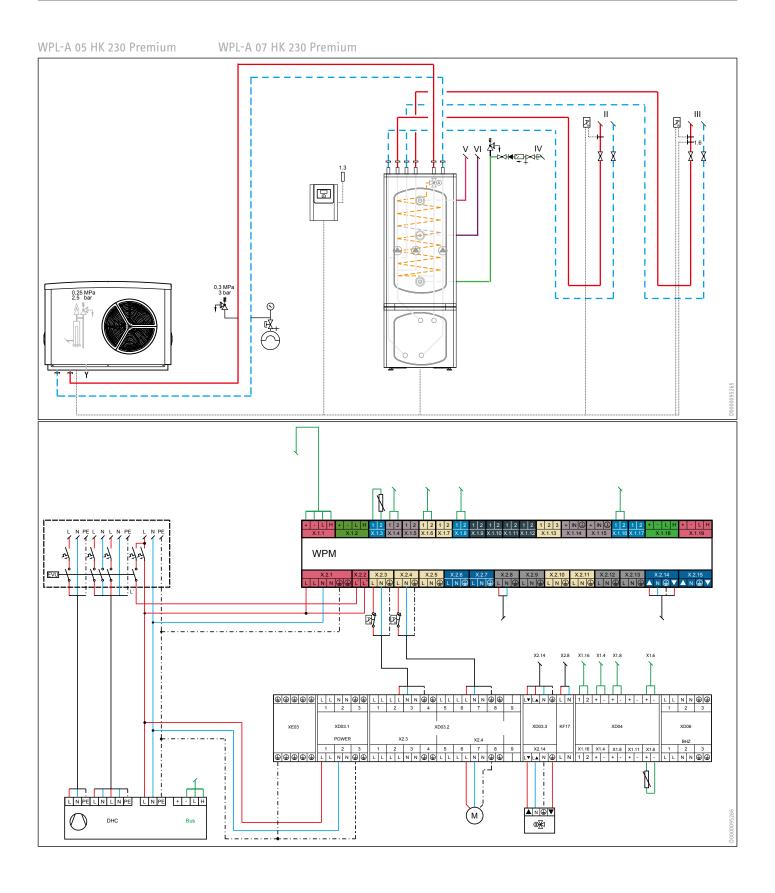
WPL-A Premium



WPL-A Premium

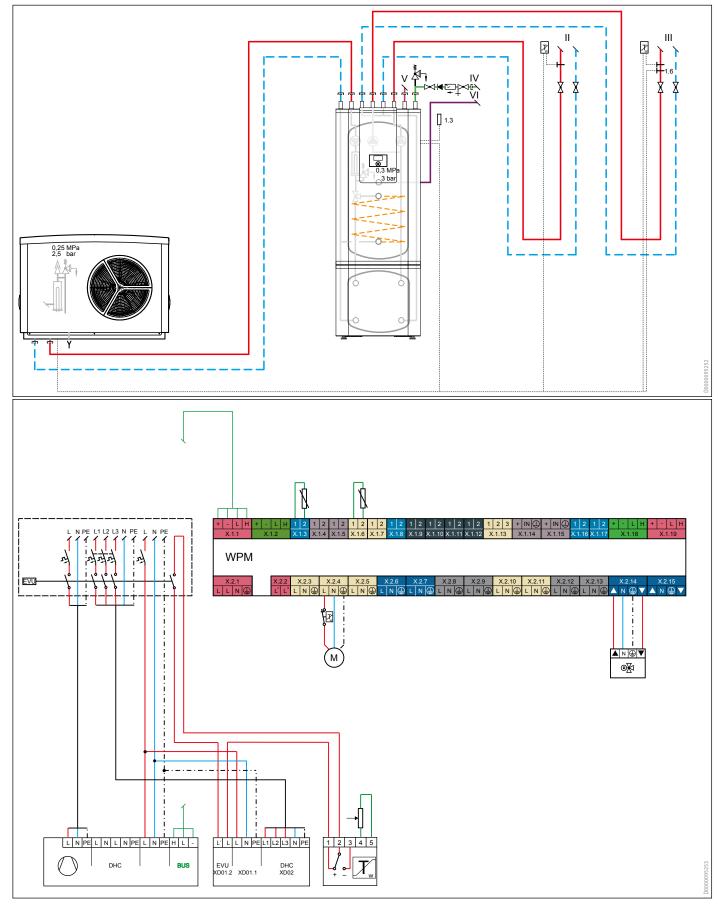


WPL-A Premium

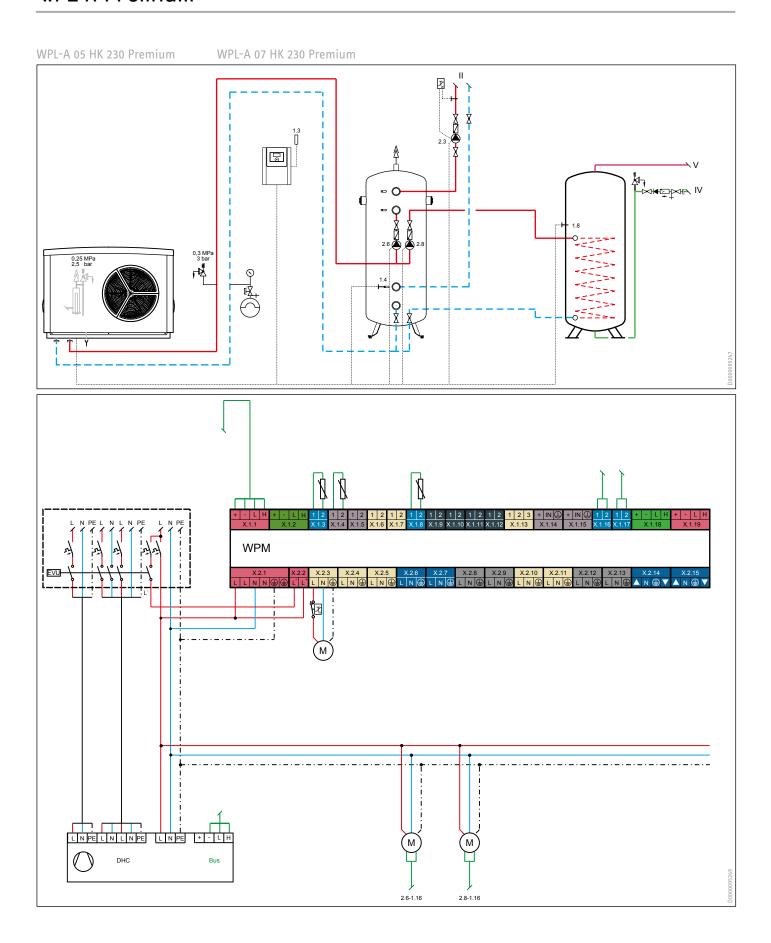


WPL-A Premium

WPL-A 05 HK 230 Premium WPL-A 07 HK 230 Premium



WPL-A Premium



Appendix

Key Pos.	WPMsystem			
X1.1	CAN A	X3.1	CAN A	
X1.2	CAN B	X3.2	CAN B	. <u></u>
X1.3	Outside sensor	X3.3	Not assigned	. ::
X1.4	Buffer or heating circuit sensor 1	X3.4	Swimming pool sensor, primary	IV
X1.5	Flow sensor	X3.5	Swimming pool sensor, secondary	V
X1.6	Heating circuit sensor 2	X3.6	Heating circuit sensor 4	VI
X1.7	Heating circuit sensor 3	X3.7	Heating circuit sensor 5	VII
X1.8	DHW cylinder sensor	X3.8	DHW cylinder 2 sensor	VIII
X1.9	Source sensor	X3.9	Differential sensor 1.1 / thermostat sensor 1	IX
X1.10	Heat source 2 sensor	X3.10	Differential sensor 1.2	X
X1.11	Sensor, cooling	X3.11	Differential sensor 2.1 / thermostat sensor 2	
X1.12	DHW circulation sensor	X3.12	Differential sensor 2.2	•
X1.13	FE7 remote control	X3.13	Not assigned	•
	Telephone remote switch	X3.14	Analogue input 3, 0-10 V	•
	Heating curve optimisation	X3.15	Analogue input 4, 0-10 V	-
	SG Ready	X3.16	PWM output 3	
X1.14	Analogue input 1, 0-10 V	X3.17	PWM output 4	
X1.15	Analogue input 2, 0-10 V	X3.18	CAN B	
X1.16	PWM output 1	X3.19	CAN A	
X1.17	PWM output 2			
X1.18	CAN B	X4.1	Power supply	_
X1.19	CAN A	X4.2	Swimming pool input	_
			Pumps L	_
X2.1	Power supply	X4.3	Heating circuit pump 4	_
X2.2	Power supply utility, enable contact (country	X4.4	Heating circuit pump 5	_
	specific)			
	Pumps L	X4.5	DHW charging pump 2	_
X2.3	Heating circuit pump 1	X4.6	Buffer charging pump 3	_
X2.4	Heating circuit pump 2	X4.7	Buffer charging pump 4	_
X2.5	Heating circuit pump 3	X4.8	Buffer charging pump 5	_
X2.6	Buffer charging pump 1	X4.9	Buffer charging pump 6	_
X2.7	Buffer charging pump 2	X4.10	Output, differential controller 1,	
X2.8	DHW charging pump		thermostat 1	
X2.9	Source pump / defrost	X4.11	Output, differential controller 2,	
X2.10	Fault output		thermostat 2	
X2.11	Heat source 2 DHW	X4.12	Pool pump, primary	_
X2.12	Heat source 2 heating	X4.13	Pool pump, secondary	-
X2.13	Cooling	X4.14	Heating circuit mixer 4	-
X2.14	Heating circuit mixer 2	X4.15	Heating circuit mixer 5	-
X2.15	Heating circuit mixer 3			
X2.16	Solar circuit pump			

Source

Heating circuit without mixer
Heating circuit with mixer
Cold water connection
DHW connection

DHW circulation connection

DHW circulation / pasteurisation pump

Swimming pool

Differential control

Solar collector

Accessories

Required accessories

WPL-A 05 HK 230 Premium

234727 WPM

233622 AS-WP 1

233623 AS-WP 2

WPL-A 07 HK 230 Premium

234727 WPM

233622 AS-WP 1

233623 AS-WP 2

Notes

Support brackets for outdoor installation

Support 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.

		WK 2
		234722
Support length	mm	800
Weight	kg	175

Suitable for

236641 WPL 20 AC

236640 WPL 20 A

236645 WPL 25 AC

236638 WPL 15 AS

236644 WPL 25 A

236639 WPL 15 ACS

202669 WPL-A 05 HK 230 Premium

200123 WPL-A 07 HK 230 Premium



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, plus 1 m self-limiting ribbon heater.

		SK 1
		232964
Height	<u></u>	950
Depth	<u></u>	570
Weight	kgkg	175

Suitable for

236641 WPL 20 AC

236640 WPL 20 A

236645 WPL 25 AC

236638 WPL 15 AS

236644 WPL 25 A

236639 WPL 15 ACS

202669 WPL-A 05 HK 230 Premium

200123 WPL-A 07 HK 230 Premium

Support brackets for outdoor installation

Support bracket

MK 1



Corrosion-proof bracket for floor mounting, designed to match the casing. For weather-proof connection of the heat pump.

		MK 1
		232129
Height	mm	245
Width	mm	1260
Depth	mm	575
Weight	kg	135

Suitable for

236639 WPL 15 ACS

236638 WPL 15 AS

202669 WPL-A 05 HK 230 Premium

200123 WPL-A 07 HK 230 Premium

Connection set

AS-WP

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
		233622
Connectio	n	32 x 2.9 mm
Suitable	for	
236641	WPL 20 AC	
236640	WPL 20 A	
236645	WPL 25 AC	
236638	WPL 15 AS	
236639	WPL 15 ACS	
236644	WPL 25 A	
200123	WPL-A 07 HK 230 Pr	emium
202669	WPL-A 05 HK 230 Pr	emium

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. AS-WP 2

		233623
Connection	n	G 1 1/4
Suitable	e for	
236641	WPL 20 AC	
236640	WPL 20 A	
236638	WPL 15 AS	
236645	WPL 25 AC	
236644	WPL 25 A	
236639	WPL 15 ACS	
202669	WPL-A 05 HK 230 Premi	um
200123	WPL-A 07 HK 230 Premi	um

Ribbon heater for condensate connection

HZB





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

		HZB-1
		232978
Length of connecting cable	<u>mm</u>	2000
Heated length	mm	1000
Rated output per metre at 10 °C outdoor air temperature	W	10
Max. ambient temperature	°C	65
Min. handling/installation temperature	°C	-45
Min. bending radius	<u>cm</u>	2,5
Outer sheath material		TPE-0
Width	<u>mm</u>	5,5
Height	<u>mm</u>	8,0
Weight	kg	0,200

Suitable for

229938 WPL 33 HT

236641 WPL 20 AC

236640 WPL 20 A

236638 WPL 15 AS 236645 WPL 25 AC

236644 WPL 25 A

202669 WPL-A 05 HK 230 Premium

200123 WPL-A 07 HK 230 Premium

HZB-2



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

		HZB-2
		232979
Length of connecting cable	mm	2000
Heated length	mm	2000
Rated output per metre at 10 °C outdoor air temperature	W	10
Max. ambient temperature	°C	65
Min. handling/installation temperature	°C	-45
Min. bending radius	_cm	2,5
Outer sheath material		TPE-0
Width	mm	5,5
Height	mm	8,0
Weight	kg	0,240

Suitable for

229938 WPL 33 HT

236641 WPL 20 AC

236640 WPL 20 A

236638 WPL 15 AS

236645 WPL 25 AC

236644 WPL 25 A

202669 WPL-A 05 HK 230 Premium

200123 WPL-A 07 HK 230 Premium

WPM

WPM



The main controller of the new, expandable WPMsystem. The WPM assists the control of one direct heating circuit and two heating circuits with mixer. Two heat pumps can be operated in a cascade, with additional heat pumps being connected via the WPMsystem extension. The WPM provides a 230 V fault contact for external pick-up of system faults. High efficiency circulation pumps can be connected directly via relay outputs or PWM outputs. The PCB of the WPM is located in a drip-proof wall mounting enclosure which can also accommodate other components, such as the relay for the top-hat rail. The entire system is operated via the integral programming unit. A well designed cable layout and the large installation area for the electrical connections ensure easy, fail-safe connection. The standard delivery includes three sensors which can be used as either immersion or contact sensors, as well as an outside sensor. An internet interface and smart home interfaces are available as options.

	WPM
	234727
VA	8
A	2
	IP21
°C	055
Ω	1000
	CAN
A	2 (2)
V	4000
A	10 (10)
	100000
	2
	1.B
	Wall mounting
mm	400
mm	310
mm	100
kg	2,9
	1/N/PE ~ 230 V 50 Hz
	A °C Ω A V A mm mm mm

WPM

WPE



The WPE extends the WPM system with numerous functions. The extension offers two additional heating circuits with mixer, enables the integration of a swimming pool controller for primary and secondary integration of a swimming pool, and cascades of up to 6 heat pumps. It also expands the basic functions of the WPM controller, adding options for connecting a building management system. Two additional 0...10 V interfaces, a differential controller and switching outputs are available. The enclosure is simply installed next to the WPM on the right or left-hand side and connected to the power supply and bus. The module's additional functions can be adjusted from the programming unit of the WPM.

tile vvi ivi.		
		WPE
		234725
IP rating		IP21
Ambient temperature	°C	055
Sensor resistance	Ω	1000
Communication system		CAN bus interface
Max. relay output breaking capacity	A_	2 (2)
Design peak voltage	V	4000
Max. total breaking capacity of all relay outputs	A_	6 (6)
Number of automatic cycles		100000
Level of contamination		2
Function		1.B
Suitable for		Wall mounting
Height	mm	400
Width	mm	310
Depth	mm	100
Weight	kg	2,9
Power supply		1/N/PE ~ 230 V 50 Hz

WPM

FET



The FET digital remote control enables convenient operation of one heating zone. The remote control measures the relative humidity and room temperature.

		FET
		234723
Height	mm	96,00
Width	mm	145,00
Depth	mm	31

WPM



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