LIA 1316BWCF M

Data sheet

Experience Better Living.

Reversible air-to-water heat pump in split design incl. domestic hot water preparation.

Heat pump system for heating and cooling with inverter control and integrated WPM Touch heat pump manager with touch display. The hydraulic unit (indoors) and the outdoor unit are connected via a refrigerant line (special accessory). For line lengths over 15 m, additional refrigerant must be added during commissioning. The maximum line length is 30 m. The outdoor unit with output-controlled compressor (inverter) adapts the heat output to the heating consumption of the building or the domestic hot water request and can be installed close to the wall. Sound-optimised through electronically controlled fan. The optional cooling can take place via fan convectors or panel heating systems. For silent cooling via panel heating system (e.g. underfloor heating), an intelligent room temperature controller, Smart-RTC, with humidity measurement (special accessory) is required to determine the dew point. Flexible expansion options for the combination of mixed and unmixed heating circuits, as well as bivalent or bivalent-renewable operation. A condensate tray is integrated as standard. The electrical connection between the control to be mounted in the building and the outdoor unit takes place via a shielded 2-wire data cable (e.g. LiYY 2x0.6 mm² or J-Y(ST)Y..LG2x2x0.8 mm²) not included in the scope of supply. Flow and return sensor, dirt trap and flow rate sensor are integrated. The following components are mounted in a space-saving way and wired ready to use: Domestic hot water cylinder 300 l with 3.2 m² tube heat exchanger and 1.5 kW flange heater for thermal disinfection Switchable pipe heater (2/4/6 kW) for support for space heating Safety valve incl. connection for an expansion vessel Electronically regulated pump, 100 l buffer tank and overflow valve to guarantee the required heating water flow rate



Technical Data

Order reference	LIA 1316BWCF M
Cooling capacity A27/W18	16.51
EER A27/W18	6.69
Energy efficiency class with 35 °C flow temperature	A+++
Seasonal space heating energy efficiency in average climate conditions (NT)	186
Energy efficiency class with 55 °C flow temperature	A++
Seasonal room heating energy efficiency (high temperature)	136
Connection voltage	1/N/PE ~230 V, 50 Hz
Dimensions (W x H x D)**	865 x 1118 x 523 mm
Weight	111 kg

* Heating and cooling capacity and coefficients of performance (COP/EER) in accordance with EN 14511

** Please note that additional space is required for pipe connection, operation and maintenance.

*** The fuse protection must be designed as an all-pole disconnecting device (common disconnection of all phases)!

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WEEE-Reg-Nr. DE 26295273

Technical alterations, delivery possibilities, and errors are subject to change.

LIA 1316BWCF M

System accessories

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Description	Order-ref.	Article-number	Example Piece	Units	Price
Heat pump air split					
Reversible air-to-water heat pump in split design incl. domestic hot water preparation.	LIA 1316BWCF M	380070	1		
Accessories hydraulic					
Connection hose 1¼" (32 x 5.5 mm)	AS 976-1	330530	1		
3-way ball valve DN 25	DWK 25	364680	1		
EB KPV expansion module	EB KPV	348650	1		
Mixer module for bivalent systems	MMB 25	348880	1		
Mixed heating circuit module with temperature sensor	MMH 25	348640	1		
High-efficiency circulating pump DN 25 with coupling relay	UP 75-25PK	376740	1		
El. cont. circulating pump: Control type Δp-c, fixed speed, PWM control optional	UPE 80-25PK	380160	1		
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-100	362530	1		
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-150	362540	1		
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-200	362550	1		
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-300	362560	1		
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-50	362520	1		
Manifold bar DN 25	VTB 25-2	376360	1		
Manifold bar DN 32	VTB 25-3	376370	1		
Domestic hot water module/unmixed heating circuit module	WWM 25	346600	1		
Accessories for heating					
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650100	381220	1		

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System accessories

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Description	Order-ref.	Article-number	Example Piece	Units	Price
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650140	381230	1		
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650180	381240	1		
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 165080	381210	1		
Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150100	381250	1		
Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150140	381260	1		
Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150180	381270	1		
Heat pump heater vertical	WPHKV 1220053	381280	1		
Accessories domestic hot water					
Safety valve combination	SVK 852	326660	1		
Accessories controls					
Outside temperature sensor with casing	FG 3115	336620	1		
Expansion module WPM for a KNX/EIB connection	KNX WPM	376350	1		
Extension for a Modbus RTU connection	LWPM 410	339410	1		
Temperature sensor NTC-10 with metal sleeve	NTC-10M	363600	1		
Extension for an Ethernet network connection	NWPM Touch	378800	1		

* Additional specific accessories available/required

Important notice

The combination of components and the specified quantities represent a non-binding example system that must be reviewed and, if necessary, adjusted individually.
The pumpsizing needs to be checked according to the system's pressure loss and the minimum heating water flow rate of the heat pump.

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