

LIA 1316HXCF

Data sheet

Experience Better Living.

Reversible air-to-water heat pump in split design.

With a flexible control range, the heating and domestic hot water output can be adapted to the actual heat consumption. Flexible expansion options for bivalent or bivalent-renewable operating mode. Electronically regulated pump, 100 l buffer tank and overflow valve to guarantee the required heating water flow rate Dirt trap and flow rate switch built in. Condensate tray heating built-in as standard with LAW 14ITR. For LAW 9IMR available as a accessory (KWH 60). Heat pump system for heating and cooling with inverter control and integrated heat pump manager WPM Econ5Plus with standard display, The hydraulic unit (indoors) and outdoor unit, which are connected via a refrigerant pipe (special accessory). The outdoor unit with output-controlled compressor (inverter) adapts the heat output to the heat consumption of the building 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 systems (e.g. underfloor heating), an intelligent room temperature controller, Smart-RTC, with humidity measurement (special accessory) is required to determine the dew point. 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, cross-section 0.6 mm²) not included in the scope of supply. Switchable pipe heater (2/4/6 kW) for support for space heating Domestic hot water cylinder 300 l with 3.2 m² tube heat exchanger and 1.5 kW flange heater for thermal disinfection Safety valve incl. connection for an expansion vessel The following components are mounted in a space-saving way and wired ready to use: Integrated flow and return sensors, external sensor (standard NTC-2) and pressure gauge included in the scope of supply. Heating circuit circulating pump free compression 38800 Pa at a heating water flow rate of 1.6 m³/h. Energy efficiency EEI ≤ 0.20.



Technical Data

Order reference	LIA 1316HXCF
Cooling capacity A27/W18	16.51
EER A27/W18	6.69
Seasonal room heating energy efficiency (high temperature)	136
Energy efficiency class with 35 °C flow temperature	A+++
Energy efficiency class with 55 °C flow temperature	A++
Seasonal space heating energy efficiency in average climate conditions (NT)	186
Connection voltage	3/N/PE ~400 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)!



Glen Dimplex Deutschland GmbH
Geschäftsbereich
Heating & Ventilation / Dimplex
Am Goldenen Feld 18
D-95326 Kulmbach

T + 49 9221 709 -101
F + 49 9221 709 -339
info@dimplex.de
www.dimplex.de

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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.	LIA 1316HXCF	380140	1		
Buffer tank, wall-mounted	PSP 50W	381900	1		
Heating connection kit for LIA Flex series split heat pumps	VSH LIA Flex	381960	1		
Domestic hot water connection kit for LIA Flex series split heat pumps	VSW LAK	374910	1		
Domestic hot water cylinder (300l) with temperature sensor	WWSP 335	376760	1		
Accessories hydraulic					
Connecting hose 1" (25 x 4.5 mm)	AS 976	322180	1		
3-way ball valve DN 25	DWK 25	364680	1		
Compact manifold with overflow valve	KPV 25	346590	1		
Mixer module for bivalent systems	MMB 25	348880	1		
Mixed heating circuit module with temperature sensor	MMH 25	348640	1		
Buffer tank, wall-mounted	PSP 50W	381900	1		
Universal buffer tank (500 l)	PSW 500	339210	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		
High-efficiency circulating pump DN 25 with coupling relay	UPH 90-25	370410	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		



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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		
Heating connection kit for LIA Flex series split heat pumps	VSH LIA Flex	381960	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		
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					
Design domestic hot water cylinder 250 l System M	MDHW 232	M99013	1		
Safety valve combination	SVK 852	326660	1		
Domestic hot water connection kit for LIA Flex series split heat pumps	VSW LAK	374910	1		
Domestic hot water cylinder 200l with temperature sensor	WWSP 229	374570	1		



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Domestic hot water cylinder (300l) with temperature sensor	WWSP 335	376760	1		
Domestic hot water cylinder (400 l) with temperature sensor	WWSP 442	372840	1		
Accessories solar					
400l solar cylinder for heat pump	WWSP 432 SOL	361080	1		
500 l solar cylinder for heat pump	WWSP 540 SOL	361090	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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