

LI 1422C

Data sheet

Experience Better Living.

Air-to-water heat pump for indoor installation.

Heat pump white textured (similar to RAL 9003). Heat pump manager anthracite grey textured (similar to RAL 7016). Heat pump for heating and cooling with two performance levels for increased efficiency in partial load operation for indoor installation and wall-mounted heat pump manager WPM Touch with touch display. Dirt trap and flow rate monitoring built in. The specially designed basic construction enables it to be brought into the building with ease. The top evaporator unit can be separated from the bottom compressor unit for transport (extraction of the refrigerant by service required for a fee). Use of load-variable tariffs (SG Ready) Silent cooling via panel heating/cooling systems requires the use of the room temperature controller with humidity sensor (RTM Econ) and a mixed heating circuit to regulate the flow temperature on the basis of the air temperature and humidity of a reference room. Sound-optimised by electronically controlled fans and an encapsulated compressor housing with free-swinging compressor baseplate for solid-borne sound insulation. Unmixed and mixed heating and cooling circuit Bivalent or bivalent-renewable operating mode Flow and return sensor integrated, external sensor (standard NTC-2) in the scope of supply. Universal design with optional domestic hot water preparation and flexible expansion possibilities for: At an external temperature of -10 °C, the maximum flow temperature that can be achieved is 56 °C. Room temperature control via Smart RTC (special accessory) High coefficients of performance (COP) through high-performance evaporator, electronic expansion valve and compliance with the requirements of EN 14511 for larger volume flows on the heat consumption side. High operational reliability through sensor monitoring of the refrigeration circuit with demand-based defrosting via reverse circulation and integrated thermal energy metering (display of the calculated quantity of thermal energy for heating, domestic hot water and swimming pool water preparation on the heat pump manager).



Technical Data

Order reference	LI 1422C
Maximum electric power consumption	8
cos phi	0,8
Energy efficiency class with 55 °C flow temperature	A++
Air duct outlet dimensions	725 x 725
Air outlet	Right
Seasonal space heating energy efficiency in average climate conditions (NT)	179
Dimensions of air duct entry	725 x 725
Seasonal room heating energy efficiency (high temperature)	135
Energy efficiency class with 35 °C flow temperature	A+++
Connection voltage	3/N/PE ~400 V, 50 Hz
Dimensions (W x H x D)**	750 x 1770 x 1000 mm



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Order reference	LI 1422C
Weight	303 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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System accessories



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Description	Order-ref.	Article-number	Example Piece	Units	Price
Heat pump air monobloc indoor					
Air-to-water heat pump for indoor installation.	LI 1422C	380300	1		
Hydraulic tower 300 litres	HPK 300	371600	1		
Domestic hot water module for hydraulic tower HPK 300	WWM HPK	371790	1		
Domestic hot water cylinder (400 l) with temperature sensor	WWSP 442	372840	1		
Accessories hydraulic					
Dual differential pressureless manifold	DDV 40	367720	1		
3-way ball valve DN 32	DWK 32	364690	1		
Immersion heater pipe assembly	HDLR 450	337450	1		
Hydraulic tower 300 litres	HPK 300	371600	1		
DN 32 double-sphere rubber expansion joint	KOMP 32	362060	1		
Mixer module for bivalent systems	MMB 32	367780	1		
Mixed heating circuit module	MMH 32	367790	1		
120 l built-under buffer tank for LI 9 and 12TU, LI 15TE	PSP 120U	378610	1		
Free-standing buffer tank 200 l	PSW 200	339830	1		
Electronically controlled wet-running pump, self-regulating	UPE 100-32K	374730	1		
High-efficiency circulating pump DN 32 with coupling relay	UPH 90-32	370420	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		
Manifold bar DN 32	VTB 32-2	374920	1		
Manifold bar DN 32	VTB 32-3	374930	1		
Domestic hot water module/unmixed heating circuit module	WWM 32	367800	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					
Flow rate measurement for central domestic hot water heater	DFM 1988-400	379110	1		
Flow rate measurement for central domestic hot water heater	DFM 1988-500	377650	1		
3-way reversing valve DN 32	DWV 32	374780	1		
High-efficiency circulating pump DN 32 with coupling relay	UPH 90-32	370420	1		
Pump unit DN 32 for direct connection of the domestic hot water cylinder	WPG 32	356040	1		



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Domestic hot water cylinder (400 l) with temperature sensor	WWSP 442	372840	1		
Domestic hot water cylinder (500l) with temperature sensor	WWSP 556	370080	1		
Domestic hot water cylinder, 700 litres	WWSP 770	376730	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		
Smart RTC+ - intelligent room temperature control	RTM Econ A	367210	1		
Smart RTC+ - intelligent room temperature control	RTM Econ U	367200	1		
Expansion module for the WPM Touch	WPM Touch +2	378920	1		
Heat pump manager incl. software adaptation for use as a master controller	WPM Touch Master	379130	1		
Accessories for cooling					
Dew point monitor	TPW WPM	350970	1		
Accessories heat source					
Sealing collar 800	DMK 800	340290	1		



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Description	Order-ref.	Article-number	Example Piece	Units	Price
90° air duct bend	LKB 800A	366170	1		
Air duct, straight - 800	LKL 800A	364650	1		
Deflector hood	LUH 800	358640	1		
Rain guard for LI(H)	RSG 800	340250	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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