

LA 1422C

Data sheet

Experience Better Living.

Reversible air-to-water heat pump for outdoor installation.

Heat pump white textured (similar to RAL 9003). Heat pump for heating and cooling with two performance levels for increased efficiency in partial load operation for outdoor installation and wall-mounted heat pump manager WPM Touch with touch display. Heat pump manager anthracite grey textured (similar to RAL 7016). 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 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: Bivalent or bivalent-renewable operating mode 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	LA 1422C
Maximum electric power consumption	8
Starting current	19
cos phi	0,8
Connection voltage	3/N/PE ~400 V, 50 Hz
Dimensions (W x H x D)**	750 x 1770 x 1000 mm
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)!



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

17.04.2024

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System accessories



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Description	Order-ref.	Article-number	Example Piece	Units	Price
Heat pump air monobloc outdoor					
Reversible air-to-water heat pump for outdoor installation.	LA 1422C	380320	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		
Free-standing buffer tank 200 l	PSW 200	339830	1		
Universal buffer tank (500 l)	PSW 500	339210	1		
Electronically controlled wet-running pump, self-regulating	UPE 100-32K	374730	1		
High-efficiency wet-running pump PWM with coupling relay	UPH 120-32PK	375750	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		
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		



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Description	Order-ref.	Article-number	Example Piece	Units	Price
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		
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		



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Description	Order-ref.	Article-number	Example Piece	Units	Price
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					



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Description	Order-ref.	Article-number	Example Piece	Units	Price
Dew point monitor	TPW WPM	350970	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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