



Data sheet LA 60S-TUR

Reversible air-to-water heat pump. For up to 60 kW house heating load.

Installation location:

Max. flow temperature: 60 °C

Casing colour: White aluminium (similar to RAL 9006)

Anthracite (DB 703)

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.

Sound-optimised by electronically controlled fans

and an encapsulated compressor housing with free-swinging compressor baseplate for solid-borne sound insulation. High coefficients of performance (COP) through high-performance evaporator and compliance with the requirements of EN 14511 for larger volume flows on the heat consumption side.

Optimised heating and cooling operation via an external four-way reversing valve which is activated by the controller (special accessory). High operational safety through sensor monitoring of the refrigeration circuit with demand-based defrosting; integrated thermal energy metering (display of the calculated quantity of thermal energy for heating and domestic hot water preparation on the heat pump manager).

Access for service work on the outlet side; the minimum clearances must be observed for installation close to walls. Can be easily transported with a lift truck (accessible from underneath) or lifting lugs.

Universal design with flexible expansion options for:

- Bivalent or bivalent-renewable operating mode
- Unmixed and mixed heating and cooling circuit

At an external temperature of -10 °C, the maximum flow temperature that can be achieved is 55 °C. 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.



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Flow and return sensor integrated; external sensor (standard NTC-2) in the scope of supply. Dirt trap and flow rate switch built in. Top part anthracite grey textured (similar to RAL 7016), bottom part grey aluminium textured (similar to RAL 9007).



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LA 60S-TUR

Technical data

Dimplex Reversible air-to-water heat pump. For up to 60 kW house heating load. (Low temperature)

Max. flow temperature	60 Grad
Lower operating limit heat source (heating operation) / Upper operating limit heat source (heating operation)	-22 Grad / 40 Grad
Heat output A-7/W35 / COP A-7/W35 *	22,2 kW / 3,2
Heat output max. A-7/W35 / COP A-7/W35 *	38,0 kW / 3,0
Heat output A2/W35 / COP A2/W35 *	26,6 kW / 3,6
Heat output max. A2/W35 / COP A2/W35 *	43,4 kW / 3,4
Heat output A7/W35 / COP A7/W35 *	35,3 kW / 4,5
Heat output max. A7/W35COP A-7/W35 *	3,0
Nominal power consumption A7/W35	8,1 kW
Sound power level	72 dB(A)
Sound pressure level in 10 m	44 dB(A)
Refrigerant / Amount of refrigerant	R407C / 15,7 kg
Max. heating water flow rate / Pressure drop	6,0 m3 pro h / 18000 Pa
Heat source flow (min.)	25000 m3 pro h
Width x Height x Depth **	1900 x 2300 x 1000 mm
Weight	870 kg
Rated voltage	3/N/PE ~400 V, 50 Hz
Starting current	60 A
Type of defrosting	Reverse circulation
Max. flow temperature	60 Grad
Lower operating limit heat source (heating operation) / Upper operating limit heat source (heating operation)	-22 Grad / 40 Grad
Heat output A-7/W35 / COP A-7/W35 *	22,2 kW / 3,2
Heat output max. A-7/W35 / COP A-7/W35 *	38,0 kW / 3,0
Heat output A2/W35 / COP A2/W35 *	26,6 kW / 3,6
Heat output max. A2/W35 / COP A2/W35 *	43,4 kW / 3,4
Heat output A7/W35 / COP A7/W35 *	35,3 kW / 4,5
Heat output max. A7/W35COP A-7/W35 *	3,0
Nominal power consumption A7/W35	8,1 kW



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Starting current	60 A
Type of defrosting	Reverse circulation

*Heating, cooling capacity and coefficients of performance (COP/EER) according to EN 14511

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



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Description	Order ref.	Article number	Sample item	Item
Heat pumps				
Pipe assembly for LA 60S-TUR air-to-water heat pump	RBS 60STUR	378650	0	
DN 50 double-sphere rubber expansion joint	KOMP 50	362080	0	
Hydraulic accessories				
Universal buffer tank (500 l)	PSW 500	339210	0	
Freestanding buffer tank 1000 l heating/cooling	BTHC 1000	381980	1	
Immersion heater 4.5 kW; ~230 V	CTHK 630	363610	0	
Immersion heater 2.0 kW; ~230 V	CTHK 631	336180	0	
Immersion heater 2.9 kW; ~400 V	CTHK 632	335910	0	
Immersion heater 4.5 kW; ~400 V	CTHK 633	322140	0	
Immersion heater 6.0 kW; ~400 V	CTHK 634	322150	0	
Immersion heater 7.5 kW	CTHK 635	322160	0	
Immersion heater 9.0 kW; ~400 V	CTHK 636	322170	0	
Freestanding buffer tank 1000 l heating/cooling	PSP 1000K	376240	1	



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Description	Order ref.	Article number	Sample item	Item
Electronically controlled circulating pump with coupling relay	UPH 120-50F	379020	1	
Manifold bar for DN 50 modules	VTB 50	367730	0	
Domestic hot water module/unmixed heating circuit module	WWM 50	364250	0	
Electronically controlled wet-running pump, self-regulating	UPE 100-32K	374730	0	
Electronically controlled wet-running pump, self-regulating	UPE 120-32K	374740	0	
Heating accessories				
Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150140	381260	0	
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650100	381220	0	
Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150180	381270	0	
Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150100	381250	0	
Heat pump heater vertical	WPHKV 1220053	381280	0	
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650140	381230	0	
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650180	381240	0	
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 165080	381210	0	
DHW preparation accessories				
Domestic hot water cylinder (500l) with temperature sensor	WWSP 556	370080	0	
Domestic hot water cylinder, 700 litres	WWSP 770	376730	1	
FLH 25M flange heater	FLH 25M	349430	0	
Flange heater for domestic hot water	FLHU 70	338070	0	



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Description	Order ref.	Article number	Sample item	Item
Flange heater for domestic hot water	FLH 60	338060	0	
Flange heater for domestic hot water	FLH 90	366130	0	
Safety valve combination	SVK 852	326660	0	
3-way reversing valve DN 50	DWV 50	374800	1	
Actuator for 3-way reversing valves DWV 25 - 50	EMA DWV	374760	1	
Pump unit DN 32 for direct connection of the domestic hot water cylinder	WPG 32	356040	0	
Control accessories				
Extension for an Ethernet network connection	NWPM Touch	378800	1	
Expansion module WPM for a KNX/EIB connection	KNX WPM	376350	0	
Extension for a Modbus RTU connection	LWPM 410	339410	0	
Outside temperature sensor with casing	FG 3115	336620	0	
Temperature sensor NTC-10 with metal sleeve	NTC-10M	363600	1	
Control accessories (cooling)				
Dew point monitor	TPW WPM	350970	0	
Solar thermal systems accessories				
400l solar cylinder for heat pump	WWSP 432 SOL	361080	0	
500 l solar cylinder for heat pump	WWSP 540 SOL	361090	0	

* Other specific accessories available / required

Important information:

The combination of the components and the quantities indicated represent a non-binding sample system, which needs to be tested and individually adapted as required. Pump dimensioning must be reviewed according to the pressure loss of the system and the minimum heating water flow rate of the heat pump.



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