

## Data sheet LA 6S-TUR

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

Installation location:

Max. flow temperature: 60 °C

Casing colour: White

Heat pump for heating and cooling for outdoor installation with wall-mounted heat pump manager WPM Touch with touch display. Sound-optimised through the use of slow-running 'owl's wing' fans with a low natural sounding noise, an encapsulated compressor housing with free-swinging compressor baseplate for solid-borne sound insulation. 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 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). The minimum clearance from the wall is only 50 cm on the air intake side, which allows installation close to walls. Universal design for low-temperature heating systems with flexible expansion options for:

- Bivalent or bivalent-renewable operating mode
- Distribution systems with unmixed and mixed heating circuits
- Use of load-variable tariffs (SG Ready)

At an external temperature of -10 °C, the maximum flow temperature that can be achieved is 56 °C. Flow and return sensor integrated; external sensor (standard NTC-2) in the scope of supply. Dirt trap and flow rate switch built in. 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 mm<sup>2</sup>) not included in the scope of supply.

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## Technical data

### Dimplex Reversible air-to-water heat pump for outdoor installation. (Low temperature)

Heat pump code	5020
Max. flow temperature	60 Grad
Lower operating limit heat source (heating operation) / Upper operating limit heat source (heating operation)	-22 Grad / 35 Grad
Heat output A-7/W35 / COP A-7/W35 *	4,0 kW / 2,9
Heat output max. A-7/W35 / COP A-7/W35 *	4,0 kW / 2,9
Heat output A2/W35 / COP A2/W35 *	5,1 kW / 3,8
Heat output max. A2/W35 / COP A2/W35 *	5,1 kW / 3,8
Heat output A7/W35 / COP A7/W35 *	6,4 kW / 4,6
COP A-7/W35 *	2,9
Heat output A10/W35 / COP A10/W35 *	6,7 kW / 4,7
Nominal power consumption according to EN 14511 at A2/W35	1,35 kW
Nominal power consumption A7/W35	1,4 kW
Sound power level	56 dB(A)
Sound pressure level in 10 m	28 dB(A)
Refrigerant / Amount of refrigerant	R410A / 3,4 kg
Max. heating water flow rate / Pressure drop	1,15 m3 pro h / 12000 Pa
Heat source flow (min.)	2700 m3 pro h
Width x Height x Depth **	1350 x 945 x 600 mm
Weight	185 kg
Rated voltage	3/N/PE ~400 V, 50 Hz
Starting current	28 A
Type of defrosting	Reverse circulation
Heat pump seal of approval (valid until)	Yes / 12.12.2017

\*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
<b>Heat pumps</b>				
Air-to-water heat pump connection kit	VSF 25	361790	0	
Pipe assembly for LA 6S-TU air-to-water heat pumps	RBS 6SU	375840	0	
<b>Hydraulic accessories</b>				
Connecting hose 1" (25 x 4.5 mm)	AS 976	322180	0	
El. cont. circulating pump: Control type $\Delta p$ -c, fixed speed; PWM control optional	UPE 80-25PK	380160	1	
Free-standing buffer tank 100 l	PSW 100	351090	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	
Dual differential pressureless manifold	DDV 25	358390	1	
High-efficiency circulating pump DN 25 with coupling relay	UP 75-25PK	376740	1	
Manifold bar DN 25	VTB 25-2	376360	0	
Manifold bar DN 32	VTB 25-3	376370	0	
Domestic hot water module/unmixed heating circuit module	WWM 25	346600	0	
Mixed heating circuit module with temperature sensor	MMH 25	348640	1	
Mixer module for bivalent systems	MMB 25	348880	0	
Electronically controlled wet-running pump, $\Delta p$ -v, fixed speed and PWM signal	UPE 70-25PK	374700	1	
3-way ball valve DN 25	DWK 25	364680	0	

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Description	Order ref.	Article number	Sample item	Item
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-50	362520	0	
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-100	362530	0	
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-150	362540	0	
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-200	362550	0	
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-300	362560	0	
<b>Heating accessories</b>				
Fan convector heating with EC fan	SRX 080EM	367500	0	
Fan convector heating with EC fan	SRX 120EM	367510	0	
Fan convector heating with EC fan	SRX 140EM	367520	0	
Fan convector heating with EC fan	SRX 180EM	367530	0	
<b>DHW preparation accessories</b>				
400l solar cylinder for heat pump	WWSP 432 SOL	361080	0	
Domestic hot water cylinder 200l with temperature sensor	WWSP 229	374570	1	
Flange heater for domestic hot water	FLHU 70	338070	0	
Safety valve combination	SVK 852	326660	0	
Domestic hot water cylinder (300l) with temperature sensor	WWSP 335	376760	0	
Domestic hot water cylinder (400 l) with temperature sensor	WWSP 442	372840	0	
Combination tank heating and domestic hot water preparation	PWS 332	348620	0	

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Description	Order ref.	Article number	Sample item	Item
Hydro Tower without regulation	HWK 332	362360	0	
Pump unit DN 25 for direct connection of the domestic hot water cylinder	WPG 25	356030	1	
3-way reversing valve DN 25	DWV 25	374770	0	
<b>Control accessories</b>				
Expansion module WPM for a KNX/EIB connection	KNX WPM	376350	0	
Extension for an Ethernet network connection	NWPM Touch	378800	0	
Extension for an Ethernet network connection	NWPM	356960	0	
Extension for a Modbus RTU connection	LWPM 410	339410	0	
Remote control for WPM 2006/2007/EconPlus/R	AP PGD	356570	0	
Outside temperature sensor with casing	FG 3115	336620	0	
Temperature sensor NTC-10 with metal sleeve	NTC-10M	363600	0	

\* Other specific accessories available / required

Notes:

Heat output according to EN 14511 at A2/W35 (A2 = air intake temp. +2 °C, W35 = heating water outlet temp. +35 °C).

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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