

# Data sheet LA 9S-TUR

## Reversible high-efficiency air-to-water heat pump

Installation location:

Max. flow temperature: 60 °C

Casing colour: Grey

Heat pump for heating and cooling for outdoor installation with wall-mounted heat pump manager WPM Touch with touch display. Sound-optimised through flow-optimised air circuit with encapsulated compressor housing, axial fan for low natural sounding noise and free-swinging compressor baseplate for solid-borne sound insulation. High coefficients of performance (COP) thanks to high-performance evaporator, COP booster, electronic expansion valve, EC fan for adjusting the air volume flow and self-optimising output control. Maximum operational safety via sensor monitoring of the refrigeration circuit with self-optimising defrosting. This enables the downtimes in cycle operation to be used for natural 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). Quick and easy installation via installation close to walls with a minimal distance from the wall of 0.5m on the intake side and a casing concept optimised for outdoor installation. Universal design 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)
- Side parts and cover anthracite grey textured (similar to RAL 7016), front panels grey aluminium textured (similar to RAL 9007).

At an external temperature of -10 °C, the maximum flow temperature that can be achieved is 56 °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



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of the air temperature and humidity of a reference room. Dirt trap and sensor flow rate measurement integrated to safeguard the minimum heating water flow rate. Flow and return sensor integrated; external sensor (standard NTC-2) in the scope of supply. 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	5011
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 *	5,50 kW / 3,2
Heat output max. A-7/W35 / COP A-7/W35 *	5,5 kW / 3,2
Heat output A2/W35 / COP A2/W35 *	7,2 kW / 4,2
Heat output max. A2/W35 / COP A2/W35 *	7,2 kW / 4,2
Heat output A7/W35 / COP A7/W35 *	8,4 kW / 4,8
Heat output max. A7/W35 / COP A-7/W35 *	8,4 kW / 3,2
Heat output A10/W35 / COP A10/W35 *	8,9 kW / 5,1
Nominal power consumption according to EN 14511 at A2/W35	1,70 kW
Nominal power consumption A7/W35	2,24 kW
Sound power level	53 dB(A)
Sound pressure level in 10 m	28 dB(A)
Refrigerant / Amount of refrigerant	R410A / 3,9 kg
Max. heating water flow rate / Pressure drop	1,5 m3 pro h / 9900 Pa
Heat source flow (min.)	2100 m3 pro h
Width x Height x Depth **	910 x 1650 x 750 mm
Weight	225 kg
Rated voltage	3/N/PE ~400 V, 50 Hz
Starting current	21 A
Fuse protection HP with separate infeed ***	C 10 A
Type of defrosting	Reverse circulation
Heat pump seal of approval (valid until)	Yes / 03.09.2021
Heat pump code	5011
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Heat output A7/W35 / COP A7/W35 *	8,4 kW / 4,8
Heat output max. A7/W35 / COP A-7/W35 *	8,4 kW / 3,2
Heat output A10/W35 / COP A10/W35 *	8,9 kW / 5,1
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Heat source flow (min.)	2100 m <sup>3</sup> pro h
Width x Height x Depth **	910 x 1650 x 750 mm
Weight	225 kg
Rated voltage	3/N/PE ~400 V, 50 Hz
Starting current	21 A
Fuse protection HP with separate infeed ***	C 10 A
Type of defrosting	Reverse circulation
Heat pump seal of approval (valid until)	Yes / 03.09.2021

\*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	VS 32-220	372950	1	
Weather-proof protective cover LA...S-TU	WSH 18-2	379550	0	
Bottom console for LA ...S-TU(R) heat pumps	BKS 0918	379640	0	
<b>Hydraulic accessories</b>				
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	
Free-standing buffer tank 200 l	PSW 200	339830	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	
El. cont. circulating pump: Control type $\Delta p$ -c, fixed speed; PWM control optional	UPE 80-25PK	380160	1	
Electronically controlled wet-running pump, self-regulating	UPE 100-25K	374720	0	



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Description	Order ref.	Article number	Sample item	Item
3-way ball valve DN 25	DWK 25	364680	0	
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>				
Domestic hot water cylinder 200l with temperature sensor	WWSP 229	374570	0	
Domestic hot water cylinder (300l) with temperature sensor	WWSP 335	376760	1	
Flange heater for domestic hot water	FLH 60	338060	0	
Flange heater for domestic hot water	FLHU 70	338070	0	
FLH 25M flange heater	FLH 25M	349430	0	
Safety valve combination	SVK 852	326660	0	



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Description	Order ref.	Article number	Sample item	Item
Domestic hot water cylinder (400 l) with temperature sensor	WWSP 442	372840	0	
Hydro Tower without regulation	HWK 332	362360	0	
Combination tank heating and domestic hot water preparation	PWS 332	348620	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>				
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	
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	
<b>Solar thermal systems accessories</b>				
400l solar cylinder for heat pump	WWSP 432 SOL	361080	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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