

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

Max. flow temperature: 60 °C

Casing colour: Grey

Reversible heat pump for heating purposes for outdoor installation for heating and cooling with wall-mounted heat pump manager WPM Econ5S. 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)

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 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. Side panels light grey (similar to RAL 7035), front panels white (similar to RAL 9016), more colours available on request.



### Technical data

#### Dimplex Reversible high-efficiency air-to-water heat pump (Low temperature)

Order reference	LA 9S-TUR
Heat pump code	5011
Casing colour	Grey
Max. flow temperature	60 °C
Lower operating limit heat source (heating operation) / Upper operating limit heat source (heating operation)	-22 to 35 °C
Lower operating limit heat source (cooling operation) / Upper operating limit heat source (cooling operation)	15 to 45 °C
Standard temperature spread heating EN 14511	5,0 K
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 A7/W35*	8,4 kW / 4,8
Standard temperature spread cooling EN 14511	5 K
Cooling capacity 1 compressor / EER A35/W7*	4,9 kW / 2,4
Cooling capacity 2 compressor / EER A35/W18 (2 compressors)*	7,0 kW / 3,3
Nominal power consumption according to EN 14511 at A2/W35	1,70 kW
Nominal power consumption according to EN 14511 at 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
Heat source flow (min.)	2100 m <sup>3</sup> /h
Max. heating water flow rate / Pressure drop	1,5 m <sup>3</sup> /h / 9900 Pa
Dimensions (W x H x D)**	910 x 1650 x 750 mm
Weight	225 kg
Rated voltage	3/N/PE ~400 V, 50 Hz

**Dimplex Reversible high-efficiency air-to-water heat pump (Low temperature)**

Starting current	21 A
Fuse protection***	C 10 A
Type of defrosting	Reverse circulation
Connection heating	1 ¼ inch
Seal of approval EHPA (valid until)	Yes / 03.09.2018

\*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.

\*\*\*Die Absicherung ist als allpolige Trennvorrichtung auszuführen (gemeinsame Abschaltung aller Phasen)!

Description	Order ref.	Article number	Sample item	Item	Price
<b>Heat pumps</b>					
Reversible high-efficiency air-to-water heat pump	LA 9S-TUR	372970	1		
Air-to-water heat pump connection kit	VS 32-220	372950	1		
Weather-proof protective cover LA...S-TU	WSH 18	372960			
<b>Hydraulic accessories</b>					
Free-standing buffer tank 100 l	PSW 100	351090	1		
Immersion heater 4.5 kW; ~230 V	CTHK 630	363610			
Immersion heater 2.0 kW; ~230 V	CTHK 631	336180			
Immersion heater 2.9 kW; ~400 V	CTHK 632	335910			
Immersion heater 4.5 kW; ~400 V	CTHK 633	322140			
Immersion heater 6.0 kW; ~400 V	CTHK 634	322150	1		
Free-standing buffer tank 200 l*	PSW 200	339830			
Dual differential pressureless manifold	DDV 25	358390	1		
Electronically controlled circulating pump with coupling relay	UPH 60-25	367870	1		
Manifold bar	VTB 25	339870			
Manifold bar (3-fold) for modules DN 25 and DN 32	VTB 32	367770			
Domestic hot water module/unmixed heating circuit module	WWM 25	346600			
Mixed heating circuit module with temperature sensor	MMH 25	348640	1		
Mixer module for bivalent systems	MMB 25	348880			
Electronically controlled wet-running pump, 1"p-v, fixed speed and PWM signal	UPE 70-25PK	374700	1		
Electronically controlled wet-running pump, self-regulating	UPE 100-25K	374720			
District heating lines with ready-to-use 90° bend*	HVL 25-50	358650			
District heating lines with ready-to-use 90° bend*	HVL 25-75	358660			
District heating lines with ready-to-use 90° bend*	HVL 25-100	358670			
District heating lines with ready-to-use 90° bend*	HVL 25-150	358880			
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-50	362520			
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-100	362530			
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-150	362540			
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-200	362550			
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-300	362560			
<b>Heating accessories</b>					
Fan convector heating with EC fan	SRX 080EM	367500			
Fan convector heating with EC fan	SRX 120EM	367510			
Fan convector heating with EC fan	SRX 140EM	367520			
Fan convector heating with EC fan	SRX 180EM	367530			
<b>DHW preparation accessories</b>					
Domestic hot water cylinder (300l) with temperature sensor	WWSP 332	346610	1		
Flange heater for domestic hot water	FLH 60	338060			
Flange heater for domestic hot water	FLHU 70	338070	1		
Flange heater for domestic hot water	FLH 90	366130			
FLH 25M flange heater	FLH 25M	349430			
Safety valve combination	SVK 852	326660			
Domestic hot water cylinder (400 l) with temperature sensor*	WWSP 442	372840			
Design domestic hot water cylinder with sheet metal coverings and temperature sensor*	WWSP 442E	353370			
400l solar cylinder for heat pump*	WWSP 432 SOL	361080			
Hydro Tower without regulation*	HWK 332	362360			
Combination tank heating and domestic hot water preparation*	PWS 332	348620			
PWS 650 combination tank*	PWS 650	367660			
Combo tank for heating and domestic hot water preparation with central flow*	PWD 750	49100			
Pump unit DN 25 for direct connection of the domestic hot water cylinder	WPG 25	356030	1		
Electronically controlled circulating pump with coupling relay	UPH 60-25	367870	1		
3-way reversing valve DN 32*	DWV 32	374780			
FWS WT fresh water station with heat exchanger	FWS WT	368100			
<b>Control accessories</b>					
Extension for an Ethernet network connection	NWPM	356960			
Expansion module WPM for a KNX/EIB connection	EWPM	356970			
Extension for a Modbus RTU connection	LWPM 410	339410			

Description	Order ref.	Article number	Sample item	Item	Price
Remote control for WPM 2006/2007/EconPlus/R*	AP PGD	356570			
Outside temperature sensor with casing	FG 3115	336620			
Temperature sensor NTC-10 with metal sleeve	NTC-10M	363600			
<b>Solar thermal systems accessories</b>					
Heat exchanger station SST 25 for solar energy systems up to max. 10 m²	SST 25	348430			

\* 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.