

Reversible air-to-water heat pump with additional heat exchanger

Max. flow temperature: 58 °C

Casing colour: White aluminium (similar to RAL 9006)

Air-to-water heat pump for outdoor installation with external temperature controlled WPM 2006 R heat pump manager and reversible refrigeration circuit for heating and cooling. Sound-optimised through the use of low-noise crescent wing axial fans and deflector hoods. Energy-efficient defrosting by reverse circulation und diagonally positioned evaporator. Universal design with optional domestic hot water preparation and flexible expansion possibilities for:

- Bivalent operation (bivalent-renewable not possible)
- Combined distribution systems for heating and cooling
- Unmixed and mixed heating and cooling circuits

Silent cooling via panel heating/cooling systems requires the use of the room climate station (special accessory) to regulate the flow temperature on the basis of the air temperature and humidity of a reference room.

The EVL ..R electric cable for connecting the heat pump and the heat pump manager must be ordered separately.



Technical data

Dimplex Reversible air-to-water heat pump with additional heat exchanger (Low temperature)

Order reference	LA 16ASR
Casing colour	White aluminium (similar to RAL 9006)
Max. flow temperature	58 °C
Lower operating limit heat source (heating operation) / Upper operating limit heat source (heating operation)	-25 to 35 °C
Lower operating limit heat source (cooling operation) / Upper operating limit heat source (cooling operation)	15 to 40 °C
Standard temperature spread heating EN 14511	5,0 K
Heat output 1 compressor / COP A2/W35*	12,7 kW / 3,2
Heat output with 1 compressor / COP A7/W35*	14,9 kW / 3,6
Standard temperature spread cooling EN 14511	5,0 K
Cooling capacity 1 compressor / COP A35/W7*	10,6 kW / 2
Nominal power consumption according to EN 14511 at A2/W35	4 kW
Sound power level device	64 dB (A)
Sound pressure level in 10 m	34 dB (A)
Refrigerant / Amount of refrigerant	R404A / 5,7 kg
Heat source flow (min.)	4000 m³/h
Max. heating water flow rate / Pressure drop	2,6 m³/h / 14600 Pa
Dimensions (W x H x D)**	1550 x 1570 x 850 mm
Weight	289 kg
Connection voltage	3/N/PE ~400 V, 50 Hz
Starting current with soft starter	25 A
Fuse protection	C 20 A
Type of defrosting	Reverse circulation
Connection heating	1 inch

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

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

Description	Order ref.	Article number	Sample item	Item	Price
Heat pumps					
Reversible air-to-water heat pump with additional heat exchanger	LA 16ASR	340090	1		
Control line for heating/cooling heat pump manager (10 m)	EVL 10R	342510	1		
Control line for heating/cooling heat pump manager (20 m)	EVL 20R	342520			
Control line for heating/cooling heat pump manager (30 m)	EVL 30R	342530			
Control line for heating/cooling heat pump manager (40 m)	EVL 40R	363720			
DN 25 double-sphere rubber expansion joint	KOMP 25	362050			
DN 25 dirt trap	SMF 25	362130			
DN 32 dirt trap	SMF 32	362140			
Air-to-water heat pump connection kit	VSF 25	361790			
Hydraulic accessories					
Free-standing buffer tank 200 l	PSW 200	339830	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	2		
Immersion heater 6.0 kW; ~400 V	CTHK 634	322150			
Universal buffer tank (500 l)*	PSW 500	339210			
Compact manifold with overflow valve	KPV 25	346590	1		
EB KPV expansion module	EB KPV	348650	1		
Dual differential pressureless manifold	DDV 25	358390			
Circulating pump for heating water	UP 60	340300	1		
Circulating pump for heating water	UP 80	340310			
Mixed heating circuit module with temperature sensor	MMH 25	348640	1		
Electronically controlled circulating pump for heating water	UPE 60	358870	1		
Electronically regulated wet running pump (0-10 V) with coupling relay	UPE 70-25	362790			
Manifold bar	VTB 25	339870			
Domestic hot water module/unmixed heating circuit module	WWM 25	346600			
Mixer module for bivalent systems	MMB 25	348880			
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			
Heating accessories					
Fan convectors heating 800 W	SRX 080M	359080			
Fan convectors heating 1200 W	SRX 120M	359090			
Fan convectors heating 1400 W	SRX 140M	359100			
Fan convectors heating 1800 W	SRX 180M	359110			
Immersion heater pipe assembly*	HDLR 450	337450			
DHW preparation accessories					
Domestic hot water cylinder (400 l) with temperature sensor	WWSP 880	337880	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			
Design domestic hot water cylinder with sheet metal coverings and temperature sensor*	WWSP 442E	353370			
Domestic hot water cylinder (500 l) with temperature sensor*	WWSP 900	339220			
Manifold bar	VTB 25	339870	1		
Domestic hot water module/unmixed heating circuit module	WWM 25	346600	1		
Pump unit DN 25 for direct connection of the domestic hot water cylinder	WPG 25	356030			
Circulating pump for heating water	UP 80	340310	1		
Control accessories					
Extension for an Ethernet network connection	NWPM	356960			

Description	Order ref.	Article number	Sample item	Item	Price
Extension for a KNX/EIB bus connection	EWPM	356970			
Extension for a Modbus connection	LWPM 410	339410			
Remote control for WPM 2006/2007/EconPlus/R*	AP PGD	356570			
External temperature sensor with casing	FG 3115	336620			
Temperature sensor NTC-2 with metal sleeve	NTC-2M	363710			
Strap-on sensor	FA 550	338550			
Thermostat for heating and domestic hot water	KRRV 003	322070			
Control accessories (cooling)					
Room climate station for temperature and humidity measurement	RKS WPM	342220	1		
Room temperature controller heating/cooling*	RTK 601U	355610			
Room temperature controller heating/cooling	RTK 602U	355620			
Dew point monitor*	TPW WPM	350970			

* Other specific accessories available / required

Notes:

Room climate control station and mixer module enable silent cooling via panel heating systems.

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.