

Data sheet HPL 12S-TUW

High efficiency air-to-water heat pump for outdoor installation incl. domestic hot water preparation.

Max. flow temperature: 60 °C

Casing colour: light grey

Heating package consisting of a high efficiency air-to-water heat pump for outdoor installation and Hydro-tower with integrated heat pump manager.

Heat pump

- Simple hydraulic connection via the flexible connection kit (VS 32-220) provided
- Extremely quiet thanks to sound-optimised casing and sound-insulated compressor housing
- High efficiency thanks to high-performance evaporator, EC fan and COP booster
- Integration of intelligent room temperature controllers (Smart RTC) enables a further increase in system efficiency
- Flexible expansion options via 2 mixer outputs for bivalent operation and/or the control of mixed heating circuits
- Minimal installation effort thanks to the space-optimised combination of buffer tank and domestic hot water cylinder
- Simple commissioning with integrated heat pump manager and optimally coordinated hydraulic components
- Demand-based supplementary heating via switchable pipe heater (2/4/6 kW)

Hydro-tower

Heat circuit circulating pump free compression 3.5 m at a heating water flow rate of 1.9 m³/h. Energy efficiency index EEI ≤ 0.20.

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Technical data

Dimplex High efficiency air-to-water heat pump for outdoor installation incl. domestic hot water preparation. (Low temperature)

Heat pump code	5012
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 *	7,2 kW / 3,2
Heat output max. A-7/W35 / COP A-7/W35 *	7,2 kW / 3,2
Heat output A2/W35 / COP A2/W35 *	9,5 kW / 4,1
Heat output max. A2/W35 / COP A2/W35 *	9,5 kW / 4,1
Heat output A7/W35 / COP A7/W35 *	11,3 kW / 4,8
Heat output max. A7/W35 / COP A-7/W35 *	11,3 kW / 3,2
Heat output A10/W35 / COP A10/W35 *	12,0 kW / 5,1
Heat output max. A10/W35 / COP A10/W35 *	12,0 kW / 5,1
Nominal power consumption according to EN 14511 at A2/W35	2,38 kW
Nominal power consumption A7/W35	2,40 kW
Sound power level	54 dB(A)
Sound pressure level in 10 m	26 dB(A)
Refrigerant / Amount of refrigerant	R410A / 4,78 kg
Max. heating water flow rate / Pressure drop	1,9 m3 pro h / 18500 Pa
Heat source flow (min.)	4100 m3 pro h
Width x Height x Depth **	910 x 1650 x 750 mm
Weight	265 kg
Rated voltage	3/N/PE ~400 V, 50 Hz
Starting current	18 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 output and coefficient of performance (COP) 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				
Weather-proof protective cover LA...S-TU	WSH 18	372960	0	
Transport aid for Hydro-Tower / LAW indoor unit	TH 270	370430	0	
Hydraulic accessories				
Connection hose 1¼" (32 x 5.5 mm)	AS 976-1	330530	0	
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	
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	0	
Electronically controlled wet-running pump, Δp -v, fixed speed and PWM signal	UPE 70-25PK	374700	0	
Heating accessories				
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	

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Description	Order ref.	Article number	Sample item	Item
Fan convector heating with EC fan	SRX 180EM	367530	0	
DHW preparation accessories				
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	
Control accessories				
Extension for an Ethernet network connection	NWPM	356960	0	
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	

* 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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