

Data sheet HPL 9S-TUW



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

Installation location:

Max. flow temperature: 60 °C

Casing colour: light grey

Heat pump for heating purposes system with integrated heat pump manager WPM Econ5 with touch display, consisting of a Hydro-tower HWK 332 and air-to-water heat pump for outdoor installation.

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
- Side parts and cover anthracite grey textured (similar to RAL 7016), front panels grey aluminium textured (similar to RAL 9007).
- 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
- Drinking water cylinder with 300 l and buffer cylinder with 100 l capacity
- Demand-based supplementary heating via switchable pipe heater (2/4/6 kW)

Hydro-tower

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 mm²) not included in the scope of supply.

Standard integrated heating flange with 1.5 kW output to support domestic hot water preparation. Heat



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circuit circulating pump free compression 5 m at a heating water flow rate of 1.5 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	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 *	5,5 kW / 3,3
Heat output max. A-7/W35 / COP A-7/W35 *	5,5 kW / 3,3
Heat output A2/W35 / COP A2/W35 *	7,2 kW / 4,3
Heat output max. A2/W35 / COP A2/W35 *	7,2 kW / 4,3
Heat output A7/W35 / COP A7/W35 *	8,4 kW / 4,9
Heat output max. A7/W35 / COP A-7/W35 *	8,4 kW / 3,3
Heat output A10/W35 / COP A10/W35 *	8,9 kW / 5,3
Heat output max. A10/W35 / COP A10/W35 *	8,9 kW / 5,3
Nominal power consumption according to EN 14511 at A2/W35	1,7 kW
Nominal power consumption A7/W35	1,71 kW
Sound power level	53 dB(A)
Sound pressure level in 10 m	25 dB(A)
Refrigerant / Amount of refrigerant	R410A / 3,9 kg
Max. heating water flow rate / Pressure drop	1,5 m ³ pro h / 9700 Pa
Heat source flow (min.)	2500 m ³ pro h
Width x Height x Depth **	910 x 1650 x 750 mm
Weight	430 kg
Rated voltage	3/N/PE ~400 V, 50 Hz
Starting current	17 A
Fuse protection HP with separate infeed ***	C 10 A
Type of defrosting	Reverse circulation
Heat pump seal of approval (valid until)	Yes / 22.09.2024

*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 18-2	379550	0	
Bottom console for LA ...S-TU(R) heat pumps	BKS 0918	379640	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	
High-efficiency circulating pump DN 25 with coupling relay	UP 75-25PK	376740	0	
El. cont. circulating pump: Control type Δp -c, fixed speed; PWM control optional	UPE 80-25PK	380160	0	
3-way reversing valve DN 25	DWV 25	374770	0	
Mixer module for bivalent systems	MMB 25	348880	0	
DN 25 double-sphere rubber expansion joint	KOMP 25	362050	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	



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Description	Order ref.	Article number	Sample item	Item
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	
Heating accessories				
Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150140	381260	0	
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650100	381220	0	
Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150180	381270	0	
Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150100	381250	0	
Heat pump heater vertical	WPHKV 1220053	381280	0	
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650140	381230	0	
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650180	381240	0	
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 165080	381210	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 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	
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



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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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