

Data sheet LI 12TU



High efficiency air-to-water heat pump for indoor installation.

Installation location:

Max. flow temperature: 60 °C

Casing colour: White (similar to RAL 9003)

Heat pump for heating purposes for indoor installation with integrated heat pump manager WPM Econ5Plus with touch display. Sound-optimised through the use of slow-running EC 3D radial fan, an encapsulated compressor housing and a free-swinging compressor baseplate for solid-borne sound insulation. High coefficients of performance (COP) through high-performance evaporator, electronic expansion valve and compliance with the requirements of EN 14511 for larger volume flows on the heat consumption side. High operational safety through sensor monitoring of the refrigeration circuit with demand-based 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). The integrated air circuit with 90° air deflection enables installation in a corner without air ducts or wall installation with air ducts on the air outlet side. Variable installation thanks to air intake from the rear, flexible air outlet to the right, left or top, and the option of making the hydraulic connections from right to left. Universal design for low-temperature heating systems with flexible expansion options for:

- Room temperature control via Smart RTC (special accessory)
- 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. Flow and return sensor integrated; external sensor (standard NTC-2) in the scope of supply. Dirt trap and flow rate switch built in. Heat pump white textured (similar to RAL 9003).



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Technical data

Dimplex High efficiency air-to-water heat pump for indoor installation. (Low temperature)

Heat pump code	1010
Max. flow temperature	60 Grad
Lower operating limit heat source (heating operation) / Upper operating limit heat source (heating operation)	-20 Grad / 35 Grad
Heat output A-7/W35 / COP A-7/W35 *	7,1 kW / 3,1
Heat output A2/W35 / COP A2/W35 *	9,4 kW / 4,0
Heat output max. A2/W35 *	8,8 kW
Heat output A7/W35 / COP A7/W35 *	11,5 kW / 4,8
Heat output A10/W35 / COP A10/W35 *	12,0 kW / 5,1
Nominal power consumption according to EN 14511 at A2/W35	2,35 kW
Nominal power consumption A7/W35	2,4 kW
Sound power level	50 dB(A)
Refrigerant / Amount of refrigerant	R410A / 4,6 kg
Max. heating water flow rate / Pressure drop	2,0 m3 pro h / 27300 Pa
Heat source flow (min.)	4100 m3 pro h
Width x Height x Depth **	960 x 1560 x 780 mm
Weight	270 kg
Rated voltage	3/N/PE ~400 V, 50 Hz
Starting current	19 A
Type of defrosting	Reverse circulation
Heat pump seal of approval (valid until)	Yes / 12.12.2020

*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				
Elasticated sound insulation underlay strips	SYL 250	352260	0	
DN 32 double-sphere rubber expansion joint	KOMP 32	362060	0	
DN 32 dirt trap	SMF 32	362140	0	
Hydraulic accessories				
Buffer tank, wall-mounted	PSP 50E	372890	0	
Free-standing buffer tank 100 l	PSW 100	351090	0	
Free-standing buffer tank 200 l	PSW 200	339830	0	
Connection hose 1¼" (32 x 5.5 mm)	AS 976-1	330530	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	1	
Mixed heating circuit module with temperature sensor	MMH 25	348640	0	
El. cont. circulating pump: Control type Δp -c, fixed speed; PWM control optional	UPE 80-25PK	380160	1	
3-way ball valve DN 25	DWK 25	364680	0	
Mixer module for bivalent systems	MMB 25	348880	0	



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Description	Order ref.	Article number	Sample item	Item
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	
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	
Immersion heater pipe assembly	HDLR 450	337450	0	
Heating accessories				
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 165080	381210	0	
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650100	381220	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 21.5 cm	WPHK 2150100	381250	0	
Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150140	381260	0	
Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150180	381270	0	
Heat pump heater vertical	WPHKV 1220053	381280	0	
DHW preparation accessories				
Domestic hot water cylinder (300l) with temperature sensor	WWSP 335	376760	1	
Transport aid for Hydro-Tower / LAW indoor unit	TH 270	370430	3	
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	



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Description	Order ref.	Article number	Sample item	Item
Safety valve combination	SVK 852	326660	0	
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	
3-way reversing valve DN 25	DWV 25	374770	1	
Actuator for 3-way reversing valves DWV 25 - 50	EMA DWV	374760	1	
Pump unit DN 25 for direct connection of the domestic hot water cylinder	WPG 25	356030	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	



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Description	Order ref.	Article number	Sample item	Item
Outside temperature sensor with casing	FG 3115	336620	0	
Temperature sensor NTC-10 with metal sleeve	NTC-10M	363600	0	
Solar thermal systems accessories				
400l solar cylinder for heat pump	WWSP 432 SOL	361080	0	
500 l solar cylinder for heat pump	WWSP 540 SOL	361090	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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