

LI 12TU

Data sheet

Experience Better Living.

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

Heat pump white textured (similar to RAL 9003). Heat pump for heating purposes for indoor installation with integrated heat pump manager WPM Econ5Plus with touch display. 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). Flow and return sensor integrated, external sensor (standard NTC-2) in the scope of supply. Bivalent or bivalent-renewable operating mode Distribution systems with unmixed and mixed heating circuits 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. 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. 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. At an external temperature of -10 °C, the maximum flow temperature that can be achieved is 56 °C. Universal design for low-temperature heating systems with flexible expansion options for: 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. Room temperature control via Smart RTC (special accessory) Use of load-variable tariffs (SG Ready) Dirt trap and flow rate switch built in.



Technical Data

Order reference	LI 12TU
Maximum electric power consumption	4.4
Seasonal space heating energy efficiency in average climate conditions (NT)	167
Air outlet	Right / left / top
cos phi	0,85
Seasonal room heating energy efficiency (high temperature)	126
Energy efficiency class with 35 °C flow temperature	A++
Energy efficiency class with 55 °C flow temperature	A++
Dimensions (W x H x D)**	960 x 1560 x 780 mm
Weight	270 kg

* Heating and cooling capacity and coefficients of performance (COP/EER) in accordance with EN 14511

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

*** The fuse protection must be designed as an all-pole disconnecting device (common disconnection of all phases)!



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17.04.2024

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System accessories



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Description	Order-ref.	Article-number	Example Piece	Units	Price
Heat pump air monobloc indoor					
High efficiency air-to-water heat pump for indoor installation.	LI 12TU	364070	1		
Dual differential pressureless manifold	DDV 25	358390	1		
3-way reversing valve DN 25	DWV 25	374770	1		
120 l built-under buffer tank for LI 9 and 12TU, LI 15TE	PSP 120U	378610	1		
Domestic hot water cylinder (300l) with temperature sensor	WWSP 335	376760	1		
Accessories hydraulic					
Connection hose 1¼" (32 x 5.5 mm)	AS 976-1	330530	1		
Dual differential pressureless manifold	DDV 25	358390	1		
3-way ball valve DN 25	DWK 25	364680	1		
Immersion heater pipe assembly	HDLR 450	337450	1		
DN 25 double-sphere rubber expansion joint	KOMP 25	362050	1		
Mixer module for bivalent systems	MMB 25	348880	1		
Mixed heating circuit module with temperature sensor	MMH 25	348640	1		
120 l built-under buffer tank for LI 9 and 12TU, LI 15TE	PSP 120U	378610	1		
Buffer tank, wall-mounted	PSP 50E	372890	1		
Free-standing buffer tank 100 l	PSW 100	351090	1		
Free-standing buffer tank 200 l	PSW 200	339830	1		
High-efficiency circulating pump DN 25 with coupling relay	UP 75-25PK	376740	1		
El. cont. circulating pump: Control type Δp -c, fixed speed, PWM control optional	UPE 80-25PK	380160	1		



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Description	Order-ref.	Article-number	Example Piece	Units	Price
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-100	362530	1		
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-150	362540	1		
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-200	362550	1		
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-300	362560	1		
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-50	362520	1		
Manifold bar DN 25	VTB 25-2	376360	1		
Manifold bar DN 32	VTB 25-3	376370	1		
Domestic hot water module/unmixed heating circuit module	WWM 25	346600	1		
Accessories for heating					
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650100	381220	1		
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650140	381230	1		
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650180	381240	1		
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 165080	381210	1		
Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150100	381250	1		
Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150140	381260	1		
Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150180	381270	1		
Heat pump heater vertical	WPHKV 1220053	381280	1		
Accessories domestic hot water					
3-way reversing valve DN 25	DWV 25	374770	1		
Hydro Tower without regulation	HWK 332	362360	1		



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Combination tank heating and domestic hot water preparation	PWS 332	348620	1		
High-efficiency circulating pump DN 25 with coupling relay	UP 75-25PK	376740	1		
Pump unit DN 25 for direct connection of the domestic hot water cylinder	WPG 25	356030	1		
Domestic hot water cylinder (300l) with temperature sensor	WWSP 335	376760	1		
Domestic hot water cylinder (400 l) with temperature sensor	WWSP 442	372840	1		
Accessories solar					
400l solar cylinder for heat pump	WWSP 432 SOL	361080	1		
500 l solar cylinder for heat pump	WWSP 540 SOL	361090	1		
Accessories controls					
Outside temperature sensor with casing	FG 3115	336620	1		
Expansion module WPM for a KNX/EIB connection	KNX WPM	376350	1		
Extension for a Modbus RTU connection	LWPM 410	339410	1		
Temperature sensor NTC-10 with metal sleeve	NTC-10M	363600	1		
Extension for an Ethernet network connection	NWPM Touch	378800	1		
Smart RTC+ - intelligent room temperature control	RTM Econ A	367210	1		
Smart RTC+ - intelligent room temperature control	RTM Econ U	367200	1		
Accessories heat source					
Sealing collar 600	DMK 600-1	356120	1		
Sealing collar 800	DMK 800-1	356140	1		
90° air duct bend	LKB 600A	366150	1		



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90° air duct bend	LKB 800A	366170	1		
Air duct, straight - 600	LKL 600A	364630	1		
Air duct, straight - 800	LKL 800A	364650	1		
Deflector hood	LUH 600	358620	1		
Rain guard for LI	RSG 600	340230	1		
Rain guard for LI(H)	RSG 800	340250	1		

* Additional specific accessories available/required

Important notice

The combination of components and the specified quantities represent a non-binding example system that must be reviewed and, if necessary, adjusted individually.

The pumpsizing needs to be checked according to the system's pressure loss and the minimum heating water flow rate of the heat pump.



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