

Data sheet LA 40TU-2



High efficiency air-to-water heat pump for outdoor installation

Installation location:

Max. flow temperature: 55 °C

Heat pump for heating purposes for outdoor installation and wall-mounted heat pump manager WPM Econ5Plus with standard display. Sound-optimised through the use of slow-running 'owl's wing' fans with a low natural sounding noise, an encapsulated compressor housing with free-swinging compressor baseplate for solid-borne sound insulation. High coefficients of performance (COP) through high-performance evaporator 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). Access for service work on the outlet side; the minimum clearances must be observed for installation close to walls. Universal design with two compressors for modulating operation, optional domestic hot water preparation and flexible expansion options for:

- Bivalent or bivalent-renewable operating mode
- Distribution systems with unmixed and mixed heating circuits
- Use of load-variable tariffs (SG Ready)

Flow and return sensor integrated; external sensor (standard NTC-2) in the scope of supply. Dirt trap included in the scope of supply. Colour white aluminium (similar to RAL 9006) Electrical connection cable EVL ..U between heat pump and heat pump manager must be ordered separately.

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Technical data

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

Heat pump code	1044
Max. flow temperature	55 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 *	11,6 kW / 2,6
Heat output max. A-7/W35 / COP A-7/W35 *	22,6 kW / 2,9
Heat output A2/W35 / COP A2/W35 *	15,2 kW / 3,4
Heat output max. A2/W35 / COP A2/W35 *	27,6 kW / 3,6
Heat output A7/W35 / COP A7/W35 *	19,5 kW / 4,3
Heat output max. A7/W35 / COP A-7/W35 *	32,7 kW / 2,9
Heat output A10/W35 / COP A10/W35 *	20,1 kW / 4,4
Heat output max. A10/W35 / COP A10/W35 *	36,1 kW / 4,3
Nominal power consumption A7/W35	8,2 kW
Sound power level	70 dB(A)
Sound pressure level in 10 m	43 dB(A)
Refrigerant / Amount of refrigerant	R449A / 11,8 kg
Max. heating water flow rate / Pressure drop	6,4 m3 pro h / 4100 Pa
Heat source flow (min.)	11000 m3 pro h
Width x Height x Depth **	1735 x 2100 x 952 mm
Weight	585 kg
Rated voltage	3/PE ~400 V, 50 Hz
Starting current	30 A
Type of defrosting	Reverse circulation
Heat pump seal of approval (valid until)	No / 15.10.2018

*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				
10 m control cable for WPM EconPlus/WPM EconR	EVL 10U	355900	1	
20 m control cable for WPM EconPlus/WPM EconR	EVL 20U	355910	0	
30 m control cable for WPM EconPlus/WPM EconR	EVL 30U	355920	0	
40 m control cable for WPM EconPlus/WPM EconR	EVL 40U	355930	0	
Pipe assembly for LA...TU air-to-water heat pumps	RBS 40U	358860	0	
Hydraulic accessories				
Hydraulic tower 300 litres	HPK 300	371600	1	
Immersion heater 4.5 kW; ~400 V	CTHK 633	322140	0	
Immersion heater 6.0 kW; ~400 V	CTHK 634	322150	0	
Transport aid for Hydro-Tower / LAW indoor unit	TH 270	370430	0	
Manifold bar DN 32	VTB 32-2	374920	0	
Manifold bar DN 32	VTB 32-3	374930	0	
Domestic hot water module/unmixed heating circuit module	WWM 32	367800	0	
Mixed heating circuit module	MMH 32	367790	0	
Electronically controlled wet-running pump, self-regulating	UPE 100-32K	374730	0	
Electronically controlled wet-running pump, self-regulating	UPE 120-32K	374740	0	

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Description	Order ref.	Article number	Sample item	Item
DN 40 double-sphere rubber expansion joint	KOMP 40	362070	0	
Universal buffer tank (500 l)	PSW 500	339210	0	
Dual differential pressureless manifold	DDV 40	367720	0	
High-efficiency wet-running pump PWM with coupling relay	UPH 120-32PK	375750	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				
Domestic hot water cylinder (500l) with temperature sensor	WWSP 556	370080	1	
FLH 25M flange heater	FLH 25M	349430	0	
Flange heater for domestic hot water	FLH 60	338060	0	
Flange heater for domestic hot water	FLHU 70	338070	0	
Safety valve combination	SVK 852	326660	0	

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Description	Order ref.	Article number	Sample item	Item
Domestic hot water cylinder, 700 litres	WWSP 770	376730	0	
3-way reversing valve DN 40	DWV 40	374790	0	
Pump unit DN 32 for direct connection of the domestic hot water cylinder	WPG 32	356040	0	
High-efficiency circulating pump DN 32 with coupling relay	UPH 90-32	370420	0	
Control accessories				
Flow rate switch DN 40	DFS 40-22	368240	1	
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	
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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