

Data sheet LIK 12TU



Compact 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) thanks to high-performance evaporator, electronic expansion valve and electronic control of the volume flows. Increased system efficiency possible via intelligent room temperature control (Smart RTC). Maximum operational safety via sensor monitoring of the refrigeration circuit with self-optimising defrosting. This enables the downtimes in cycle operation to be used for natural 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. Compact design with optional domestic hot water preparation and integrated components for direct connection of an unmixed heating circuit (must not be used for bivalent systems):

- Expansion vessel (24 l)
- High-efficiency heat circulating pump (note the free compression)
- Overflow valve and safety module with pressure gauge
- Buffer tank (50 l) with integrated 2 kW heating element

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.



Glen Dimplex Thermal Solutions T: + 49 9221 709-100
(Glen Dimplex Deutschland GmbH) F: + 49 9221 709-339
Am Goldenen Feld 18 dimplex@dimplex.de
D-95326 Kulmbach www.dimplex.de

Glen Dimplex Austria GmbH
Hauptstraße 71
A-5302 Henndorf am Wallersee

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F: + 43 6214 203304
info@dimplex.at
www.dimplex.at

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Heat pump white textured (similar to RAL 9003). Installation option for a switchable pipe heater (special accessory), which can be used for reheating domestic hot water up to 60 °C and as a reserve for heating operation. (Spectrum of efficiency classes A+++ to D)



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Technical data

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

Heat pump code	1039
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 *	7,1 kW / 3,3
Heat output A2/W35 / COP A2/W35 *	9,4 kW / 4,2
Heat output A7/W35 / COP A7/W35 *	11,5 kW / 5,0
Heat output A10/W35 / COP A10/W35 *	12,0 kW / 5,3
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
Heat source flow (min.)	4100 m3 pro h
Width x Height x Depth **	960 x 1950 x 750 mm
Weight	310 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	1	
DN 32 double-sphere rubber expansion joint	KOMP 32	362060	0	
Air-to-water heat pump connection kit	VSF 32	361800	1	
Fitted pipe heater for LIK 12TU - 2/4/6 kW	HCT 12U	373710	0	
Screw-in radiator 4.5 kW 1¼" for LIK 8TES	CEHK 345	366810	0	
Hydraulic accessories				
Connection hose 1¼" (32 x 5.5 mm)	AS 976-1	330530	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 ball valve DN 25	DWK 25	364680	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	
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				



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Description	Order ref.	Article number	Sample item	Item
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	
Safety valve combination	SVK 852	326660	0	



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Description	Order ref.	Article number	Sample item	Item
Domestic hot water cylinder (400 l) with temperature sensor	WWSP 442	372840	0	
Domestic hot water cylinder (500l) with temperature sensor	WWSP 556	370080	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	
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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