

Data sheet WI 120TU



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

Installation location:

Max. flow temperature: 62 °C

Casing colour: White (similar to RAL 9003)

Heat pump for heating purposes with two performance levels for increased efficiency in partial load operation for indoor installation and integrated heat pump manager WPM Econ5Plus with standard display. Variable connection options for the water and heating connections on the rear wall of the casing. A sound-optimised metal casing and the integrated solid-borne sound insulation with free-swinging compressor base plate make direct connection with the heating system possible. Access for service work front and left, no minimum clearance is required on the right side. High coefficient of performance through electronic expansion valve, COP booster and electronic pump control depending on the temperature spread in the heat generator circuit. Sensor monitoring of the refrigeration circuit for a high degree of operational safety and integrated thermal energy metering (display of the calculated quantity of thermal energy for heating, domestic hot water and swimming pool water preparation). FWO function for more efficient domestic hot water preparation with increased domestic hot water temperatures and volumes of water to be drawn through optimised tank charging.

Universal design with two compressors for output regulation when operating at partial load, 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)

Soft starter, flow and return sensors for the water and heating circuit integrated. Dirt trap for heat source, external sensor (standard NTC-2) and circulating pump for the heat generator

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 T: + 43 6214 20330
Hauptstraße 71 F: + 43 6214 203304
A-5302 Henndorf am Wallersee info@dimplex.at
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circuit in the scope of supply (observe the free compression). Heat pump white textured (similar to RAL 9003). Heat generator circuit pump 8 m delivery height at 12 m³/h, flange connection DN 65, installation length 340 mm.

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Technical data

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

Heat pump code	3014
Max. flow temperature	62 Grad
Lower operating limit heat source (heating operation) / Upper operating limit heat source (heating operation)	7 Grad / 25 Grad
Sound power level	66 dB(A)
Refrigerant / Amount of refrigerant	R410A / 23,0 kg
Max. heating water flow rate / Pressure drop	20,1 m3 pro h / 21500 Pa
Heat source flow (min.)	22,0 m3 pro h
Width x Height x Depth **	1350 x 1900 x 805 mm
Weight	608 kg
Rated voltage	3/PE ~400 V, 50 Hz
Starting current	76 A

*A water-to-water heat pump must be used if borehole heat exchangers are used which work using water as the heat transfer medium.

**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 65 dirt trap	SMF 65	362170	0	
Connecting flange for heating and brine circuits	AF 65	351920	0	
Hydraulic accessories				
Universal buffer tank (500 l)	PSW 500	339210	0	
Free-standing heating buffer tank 1000 litre	BTH 1000	382090	1	
Free-standing buffer tank 1000 l	PSW 1000	361640	1	
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	
Immersion heater 7.5 kW	CTHK 635	322160	0	
Immersion heater 9.0 kW; ~400 V	CTHK 636	322170	0	
Electronically controlled circulating pump with coupling relay	UPH 80-40F	371800	0	
Electronically controlled circulating pump with coupling relay	UPH 120-50F	379020	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	

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Description	Order ref.	Article number	Sample item	Item
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 (500l) with temperature sensor	WWSP 556	370080	0	
Domestic hot water cylinder, 700 litres	WWSP 770	376730	1	
FLH 25M flange heater	FLH 25M	349430	0	
Flange heater for domestic hot water	FLHU 70	338070	0	
Flange heater for domestic hot water	FLH 60	338060	0	
Flange heater for domestic hot water	FLH 90	366130	0	
Safety valve combination	SVK 852	326660	0	
3-way reversing valve DN 50	DWV 50	374800	0	
Control accessories				
Flow rate switch 3"	DFS 76-160	368980	1	
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	

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Description	Order ref.	Article number	Sample item	Item
Temperature sensor NTC-10 with metal sleeve	NTC-10M	363600	1	
Accessories for passive cooling				
Passive cooling controller	WPM Econ PK	360000	0	
Plate heat exchanger, copper-soldered	WTU 100	362390	0	
Plate heat exchanger for SI 100	WTE 100	358460	0	
Plate heat exchanger for SI 130	WTE 130	358470	0	
Control accessories (cooling)				
Room climate station for temperature and humidity measurement	RKS WPM	342220	0	
Dew point monitor	TPW WPM	350970	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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