WI 180TU

Data sheet

Experience Better Living.

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

Heat pump white textured (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. Heat generator circuit pump 8 m delivery height at 12 m3/h, flange connection DN 65, installation length 340 mm. Use of load-variable tariffs (SG Ready) Variable connection options for the water and heating connections on the rear wall of the casing. 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). High coefficient of performance through electronic expansion valve, COP booster and electronic pump control depending on the temperature spread in the heat generator circuit. 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 circuit in the scope of supply (observe the free compression). Access for service work front and left, no minimum clearance is required on the right side. 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. Bivalent or bivalent-renewable operating mode 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. Universal design with two compressors for output regulation when operating at partial load, optional domestic hot water preparation and flexible expansion options for: Distribution systems with unmixed and mixed heating circuits



Technical Data

Order reference	WI 180TU
Heat source flow (min.)	34.7
Maximum electric power consumption	57.5
Nominal power consumption according to EN 14511 at W10/W35	32.1
Energy efficiency class with 55 °C flow temperature	A+++
Energy efficiency class with 35 °C flow temperature	A+++
Seasonal room heating energy efficiency (high temperature)	168
Seasonal space heating energy efficiency in average climate conditions (NT)	229
Pressure drop evaporator EN 14511	28000
Connection voltage	3/PE ~400 V, 50 Hz
Dimensions (W x H x D)**	1348 x 1896 x 837 mm
Weight	824 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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Technical alterations, delivery possibilities, and errors are subject to change.

WI 180TU
System accessories

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Description	Order-ref.	Article-number	Example Piece	Units	Price
Heat pump water monobloc indoor					
High efficiency water-to-water heat pump for indoor installation.	WI 180TU	371540	1		
3-way reversing valve DN 50	DWV 50	374800	1		
Domestic hot water cylinder, 700 litres	WWSP 770	376730	1		
Accessories hydraulic					
Universal buffer tank (500 l)	PSW 500	339210	1		
Electronically controlled circulating pump with coupling relay	UPH 120-50F	379020	1		
Electronically controlled circulating pump with coupling relay	UPH 80-40F	371800	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					
Flow rate measurement for central domestic hot water heater	DFM 1988-500	377650	1		
Flow rate measurement for central domestic hot water heater	DFM 1988-700	379150	1		

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Description	Order-ref.	Article-number	Example Piece	Units	Price
3-way reversing valve DN 50	DWV 50	374800	1		
Electronically controlled circulating pump with coupling relay	UPH 80-40F	371800	1		
Domestic hot water cylinder (500l) with temperature sensor	WWSP 556	370080	1		
Domestic hot water cylinder, 700 litres	WWSP 770	376730	1		
Accessories controls					
Remote control for WPM 2006/2007/EconPlus/R	AP PGD	356570	1		
Flow rate switch 3	DFS 76-240	371920	1		
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		
Strap-on thermostat for temperature monitoring	RAT 060I	361470	1		
Smart RTC+ - intelligent room temperature control	RTM Econ A	367210	1		
Smart RTC+ - intelligent room temperature control	RTM Econ U	367200	1		
Accessories for cooling					
3-way reversing valve DN 50	DWV 50	374800	1		
Room climate station for temperature and humidity measurement	RKS WPM	342220	1		
Dew point monitor	TPW WPM	350970	1		
Passive cooling controller	WPM Econ PK	360000	1		
Plate heat exchanger for SI 130	WTE 130	358470	1		

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Description	Order-ref.	Article-number	Example Piece	Units	Price
Plate heat exchanger, copper-soldered	WTU 130	362400	1		
Accessories heat source					
Connecting flange for heating and brine circuits	AF 80	351930	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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