

# WI 120TU

## Data sheet

Experience Better Living.

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

Distribution systems with unmixed and mixed heating circuits Universal design with two compressors for output regulation when operating at partial load, optional domestic hot water preparation and flexible expansion options for: 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. Bivalent or bivalent-renewable operating mode 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. Access for service work front and left, no minimum clearance is required on the right side. 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). Soft starter, flow and return sensors for the water and heating circuit integrated. 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). Variable connection options for the water and heating connections on the rear wall of the casing. Use of load-variable tariffs (SG Ready) Heat generator circuit pump 8 m delivery height at 12 m<sup>3</sup>/h, flange connection DN 65, installation length 340 mm. 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 pump white textured (similar to RAL 9003).



### Technical Data

Order reference	WI 120TU
Heat source flow (min.)	22
Maximum electric power consumption	35.3
Nominal power consumption according to EN 14511 at W10/W35	19.2
Energy efficiency class with 35 °C flow temperature	A+++
Energy efficiency class with 55 °C flow temperature	A+++
Seasonal room heating energy efficiency (high temperature)	172
Seasonal space heating energy efficiency in average climate conditions (NT)	244
Pressure drop evaporator EN 14511	14000
Connection voltage	3/PE ~400 V, 50 Hz
Dimensions (W x H x D)**	1348 x 1896 x 840 mm
Weight	604 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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## System accessories



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Description	Order-ref.	Article-number	Example Piece	Units	Price
<b>Heat pump water monobloc indoor</b>					
High efficiency water-to-water heat pump for indoor installation.	WI 120TU	371530	1		
<b>Accessories hydraulic</b>					
3-way ball valve DN 50	DWK 50	364710	1		
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		
<b>Accessories for heating</b>					
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		
<b>Accessories domestic hot water</b>					
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		
3-way reversing valve DN 50	DWV 50	374800	1		



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Description	Order-ref.	Article-number	Example Piece	Units	Price
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		
<b>Accessories solar</b>					
400l solar cylinder for heat pump	WWSP 432 SOL	361080	1		
500 l solar cylinder for heat pump	WWSP 540 SOL	361090	1		
<b>Accessories controls</b>					
Flow rate switch 3	DFS 76-160	368980	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		
Extension for an Ethernet network connection	NWPM Touch	378800	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		
<b>Accessories for cooling</b>					
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		



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Description	Order-ref.	Article-number	Example Piece	Units	Price
Passive cooling controller	WPM Econ PK	360000	1		
Plate heat exchanger for SI 100	WTE 100	358460	1		
Plate heat exchanger for SI 130	WTE 130	358470	1		
Plate heat exchanger, copper-soldered	WTU 100	362390	1		
<b>Accessories heat source</b>					
Connecting flange for heating and brine circuits	AF 65	351920	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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