WI 22TU
Data sheet

Experience Better Living.

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

Heat pump for heating purposes for indoor installation with integrated heat pump manager WPM Econ5Plus with touch display. Heat pump white textured (similar to RAL 9003). Use of load-variable tariffs (SG Ready) Room temperature control via Smart RTC (special accessory) Integrated soft starter (from WI 14), integrated load contactor for well water pump, flow sensor, return sensor, external sensor (standard NTC-2) and dirt filter for ground water included in the scope of supply. Sound-optimised through encapsulated compressor housing and free-swinging compressor baseplate. High coefficients of performance (COPs) thanks to electronic expansion valve, COP booster and compliance with the requirements of EN 14511 for larger volume flows on the heat consumption side. Universal design for low-temperature heating systems with flexible expansion options for: If the evaporation temperatures are too low, e.g. due to an inadequate water flow, the heat pump switches off, which means that no flow rate switch is required. For well systems with an insecure water supply, a flow rate switch available as a special accessory can also be installed. 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 and domestic hot water preparation on the heat pump manager). Integrated corrosion-proof and freeze-proof stainless steel coil evaporator. Variable connection options for the ground water and heating connections on the rear wall of the casing. Distribution systems with unmixed and mixed heating circuits Bivalent or bivalent-renewable operating mode Integrated solid-borne sound insulation for direct connection to the heating system.



Technical Data

Order reference	WI 22TU
Heat source flow (min.)	4
Nominal power consumption according to EN 14511 at W10/W35	3.91
Maximum electric power consumption	7.2
Seasonal space heating energy efficiency in average climate conditions (NT)	237
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)	167
Connection voltage	3/PE ~400 V, 50 Hz
Dimensions (W x H x D)**	650 x 845 x 665 mm
Weight	179 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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17.04.2024

WEEE-Reg-Nr. DE 26295273

Technical alterations, delivery possibilities, and errors are subject to change.

WI 22TU
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 22TU	364220	1		
Hydraulic tower 300 litres	HPK 300	371600	1		
Domestic hot water module for hydraulic tower HPK 300	WWM HPK	371790	1		
Domestic hot water cylinder (500l) with temperature sensor	WWSP 556	370080	1		
Accessories hydraulic					
Dual differential pressureless manifold	DDV 32	348450	1		
3-way ball valve DN 32	DWK 32	364690	1		
Immersion heater pipe assembly	HDLR 450	337450	1		
Hydraulic tower 300 litres	HPK 300	371600	1		
DN 32 double-sphere rubber expansion joint	KOMP 32	362060	1		
Transitional screw connection 1 1/4" internal thread to R 1" GDD-01-375810	KUP G32	375810	1		
Mixer module for bivalent systems	MMB 32	367780	1		
Mixed heating circuit module	MMH 32	367790	1		
Free-standing buffer tank 200 l	PSW 200	339830	1		
Universal buffer tank (500 l)	PSW 500	339210	1		
Electronically controlled wet-running pump, self-regulating	UPE 100-32K	374730	1		
High-efficiency circulating pump DN 32 with coupling relay	UPH 90-32	370420	1		
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-100	362530	1		
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-150	362540	1		

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Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-200	362550	1		
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-300	362560	1		
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-50	362520	1		
Manifold bar DN 32	VTB 32-2	374920	1		
Manifold bar DN 32	VTB 32-3	374930	1		
Domestic hot water module/unmixed heating circuit module	WWM 32	367800	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		
3-way reversing valve DN 32	DWV 32	374780	1		
High-efficiency circulating pump DN 32 with coupling relay	UPH 90-32	370420	1		

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Description	Order-ref.	Article-number	Example Piece	Units	Price
Pump unit DN 32 for direct connection of the domestic hot water cylinder	WPG 32	356040	1		
Domestic hot water cylinder (500l) with temperature sensor	WWSP 556	370080	1		
Domestic hot water cylinder, 700 litres	WWSP 770	376730	1		
Accessories solar					
400l solar cylinder for heat pump	WWSP 432 SOL	361080	1		
500 l solar cylinder for heat pump	WWSP 540 SOL	361090	1		
Accessories controls					
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		
Accessories for cooling					
3-way reversing valve DN 32	DWV 32	374780	1		
Room climate station for temperature and humidity measurement	RKS WPM	342220	1		
Dew point monitor	TPW WPM	350970	1		
Plate heat exchanger for SIH 20	WTE 20	358400	1		

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Description	Order-ref.	Article-number	Example Piece	Units	Price
Accessories heat source					
Transitional screw connection 1 1/2" internal thread to R 1 1/4" GDD-01-370090	KUP G40	370090	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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