SI 35TUR
Data sheet

Experience Better Living.

Reversible brine-to-water heat pump for indoor installation.

Optimised heating and cooling operation via an internal hydraulic four-way reversing valve which is activated by the controller. Brine circulating pump 12 m delivery height at 6 m3/h, flange connection DN 40, installation length 250 mm, heat generator circuit pump 12 m delivery height at 5 m3/h (thread connection R 1 1/4", (pump thread 2"), inside micrometer 180 mm! High coefficients of performance (COP) through electronic expansion valve and electronic pump control depending on the temperature spread in the brine and generator circuit. Use of load-variable tariffs (SG Ready) Heat pump for heating and cooling with two performance levels for increased efficiency in partial load operation for indoor installation and integrated heat pump manager WPM Econ5 with touch display. Heat pump white textured (similar to RAL 9003). 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). Dirt trap for brine circuit, external sensor (standard NTC-2), circulating pumps for brine and heat generator circuit in the scope of supply (observe the free compression). Soft starter, flow and return sensors for the brine and heating circuit integrated. 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. Variable connection options for brine and heating connections on the back board of the casing. Brine package SZB must be ordered separately. Bivalent or bivalent-renewable operating mode 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.



Technical Data

Order reference	SI 35TUR
Heating water flow rate acc. EN 1511	5.9
Heating water flow rate pressure drop according to EN 14511	11000
Heat source flow (min.)	6.7
Maximum electric power consumption	13.4
Nominal power consumption according to EN 14511 at B0/W35	7.4
Seasonal room heating energy efficiency (high temperature)	135
Seasonal space heating energy efficiency in average climate conditions (NT)	193
Energy efficiency class with 35 °C flow temperature	A+++
Energy efficiency class with 55 °C flow temperature	A++
Dimensions (W x H x D)**	1000 x 885 x 810 mm

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17.04.2024

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Order reference	SI 35TUR
Weight	302 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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SI 35TUR
System accessories

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Description	Order-ref.	Article-number	Example Piece	Units	Price
Heat pump brine monobloc indoor					
Reversible brine-to-water heat pump for indoor installation.	SI 35TUR	374870	1		
Dual differential pressureless manifold	DDV 40	367720	1		
3-way reversing valve DN 40	DWV 40	374790	1		
Built-under buffer tank 300l	PSP 300U	378630	1		
Domestic hot water cylinder (500l) with temperature sensor	WWSP 556	370080	1		
Accessories hydraulic					
Freestanding buffer tank 1000 l heating/cooling	BTHC 1000	381980	1		
Dual differential pressureless manifold	DDV 40	367720	1		
3-way ball valve DN 40	DWK 40	364700	1		
DN 40 double-sphere rubber expansion joint	KOMP 40	362070	1		
Mixer module for bivalent systems	MMB 32	367780	1		
Mixed heating circuit module	MMH 32	367790	1		
Freestanding buffer tank 1000 l heating/cooling	PSP 1000K	376240	1		
Built-under buffer tank 300l	PSP 300U	378630	1		
Universal buffer tank (500 l)	PSW 500	339210	1		
Electronically controlled wet-running pump, self-regulating	UPE 100-32K	374730	1		
Electronically controlled wet-running pump, self-regulating	UPE 120-32K	374740	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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System accessories

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Description	Order-ref.	Article-number	Example Piece	Units	Price
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 40	DWV 40	374790	1		
Pump unit DN 32 for direct connection of the domestic hot water cylinder	WPG 32	356040	1		

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Description	Order-ref.	Article-number	Example Piece	Units	Price
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		
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 40	DWV 40	374790	1		
Passive cooling station with cooling controller and 3-way reversing valve DN 40	PKS 25 Econ	362940	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 35	WTE 37	358420	1		

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Description	Order-ref.	Article-number	Example Piece	Units	Price
Plate heat exchanger, copper-soldered	WTU 50	362370	1		
Accessories heat source					
Antifreeze for the brine circuit 200 l	AFN 824	324610	1		
Brine circuit manifold connection package	AP SVT16	356060	1		
DN 40 double-sphere rubber expansion joint	KOMP 40	362070	1		
Strap-on thermostat for temperature monitoring	RAT 060I	361470	1		
Brine circuit manifold (2-fold) with clamping ring fittings	SVT 200KV	363860	1		
Brine circuit manifold (3-fold) with clamping ring fittings	SVT 300KV	363870	1		
Brine circuit manifold (4-fold) with clamping ring fittings	SVT 400KV	363880	1		
Brine package for SI 35TU	SZB 40F-18	368570	1		
Plate heat exchanger for SI 35	WTE 37	358420	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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