

## Data sheet SI 35TU



### Highly efficient brine-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 touch display. Variable connection options for brine and heating connections on the back board 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 brine and heating circuit integrated. Dirt trap for brine circuit, external sensor (standard NTC-2), circulating pumps for brine and heat generator



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circuit in the scope of supply (observe the free compression). Brine circulating pump 12 m delivery height at 4 m<sup>3</sup>/h, flange connection DN 32, installation length 220 mm; heat generator circuit pump 12 m delivery height at 5 m<sup>3</sup>/h (thread connection R 1 1/4", (pump thread 2"), inside micrometer 180 mm! Heat pump white textured (similar to RAL 9003). Brine package SZB must be ordered separately. (Spectrum of efficiency classes A+++ to D)



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## Technical data

### Dimplex Highly efficient brine-to-water heat pump for indoor installation. (Medium temperature)

Heat pump code	4019
Max. flow temperature	62 Grad
Lower operating limit heat source (heating operation) / Upper operating limit heat source (heating operation)	-5 Grad / 25 Grad
Sound power level	58 dB(A)
Refrigerant / Amount of refrigerant	R410A / 10,9 kg
Max. heating water flow rate / Pressure drop	6,1 m3 pro h / 10600 Pa
Heat source flow (min.)	6,4 m3 pro h
Width x Height x Depth **	1000 x 885 x 810 mm
Weight	315 kg
Rated voltage	3/N/PE ~400 V, 50 Hz
Starting current	30 A
Fuse protection HP with separate infeed ***	C32A
Heat pump seal of approval (valid until)	Yes / 23.11.2022

\*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
<b>Heat pumps</b>				
Elasticated sound insulation underlay strips	SYL 250	352260	0	
Connecting flange for heating and brine circuits	AF 40	351900	0	
DN 40 double-sphere rubber expansion joint	KOMP 40	362070	0	
DN 40 dirt trap	SMF 40	362150	0	
<b>Hydraulic accessories</b>				
Transitional screw connection 1 1/2" internal thread to R 1 1/4"	KUP G40	370090	0	
Built-under buffer tank 300l	PSP 300U	378630	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	
Universal buffer tank (500 l)	PSW 500	339210	0	
Dual differential pressureless manifold	DDV 40	367720	1	
Manifold bar DN 32	VTB 32-2	374920	0	
Manifold bar DN 32	VTB 32-3	374930	0	
Domestic hot water module/unmixed heating circuit module	WWM 32	367800	1	



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Mixed heating circuit module	MMH 32	367790	0	
Electronically controlled wet-running pump, self-regulating	UPE 120-32K	374740	0	
Mixer module for bivalent systems	MMB 32	367780	0	
DN 32 double-sphere rubber expansion joint	KOMP 32	362060	0	
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-50	362520	0	
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-100	362530	0	
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-150	362540	0	
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-200	362550	0	
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-300	362560	0	
<b>Heating accessories</b>				
Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150140	381260	91	
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650100	381220	91	
Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150180	381270	91	
Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150100	381250	91	
Heat pump heater vertical	WPHKV 1220053	381280	91	
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650140	381230	91	
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650180	381240	91	
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 165080	381210	91	
<b>DHW preparation accessories</b>				
Domestic hot water cylinder (500l) with temperature sensor	WWSP 556	370080	1	
FLH 25M flange heater	FLH 25M	349430	0	
Transport aid for Hydro-Tower / LAW indoor unit	TH 270	370430	7	



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Description	Order ref.	Article number	Sample item	Item
Flange heater for domestic hot water	FLH 60	338060	0	
Flange heater for domestic hot water	FLHU 70	338070	0	
Safety valve combination	SVK 852	326660	0	
Domestic hot water cylinder, 700 litres	WWSP 770	376730	0	
3-way reversing valve DN 40	DWV 40	374790	1	
Actuator for 3-way reversing valves DWV 25 - 50	EMA DWV	374760	1	
Pump unit DN 32 for direct connection of the domestic hot water cylinder	WPG 32	356040	0	
<b>Control accessories</b>				
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	
Temperature sensor NTC-10 with metal sleeve	NTC-10M	363600	0	
<b>Accessories for passive cooling</b>				
Passive cooling station with cooling controller and 3-way reversing valve DN 40	PKS 25 Econ	362940	0	
Passive cooling controller	WPM Econ PK	360000	0	



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Description	Order ref.	Article number	Sample item	Item
Plate heat exchanger for SI 35	WTE 37	358420	0	
Plate heat exchanger, copper-soldered	WTU 50	362370	0	
<b>Control accessories (cooling)</b>				
Room climate station for temperature and humidity measurement	RKS WPM	342220	0	
Dew point monitor	TPW WPM	350970	0	
<b>Solar thermal systems accessories</b>				
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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