

Data sheet SIH 20TE



High-temperature brine-to-water heat pump for indoor installation

Installation location:

Max. flow temperature: 70 °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 Econ5 with touch display. Variable connection options for brine and heating connections on the back board of the casing. Access for service work from the front, no minimum clearances required on the sides. 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. High coefficients of performance (COP) with economiser and compliance with the requirements of EN 14511 for larger volume flows on the heat consumption side. Universal design with optional domestic hot water preparation and flexible expansion possibilities for:

- Bivalent or bivalent-renewable operating mode
- Distribution systems with unmixed and mixed heating circuits

Integrated soft starter and load contactor for brine circulating pump, integrated flow and return sensors; external sensor (standard NTC-2) and dirt filter for brine circuit included in the scope of supply. Dirt trap for installation in the brine circuit (return to the heat pump) included in the scope of supply. Brine package SZB must be ordered separately. Heat pump white textured (similar to RAL 9003).



Glen Dimplex Thermal Solutions
(Glen Dimplex Deutschland GmbH)
Am Goldenen Feld 18
D-95326 Kulmbach
T: + 49 9221 709-100
F: + 49 9221 709-339
dimplex@dimplex.de
www.dimplex.de

Glen Dimplex Austria GmbH
Hauptstraße 71
A-5302 Henndorf am Wallersee
T: + 43 6214 20330
F: + 43 6214 203304
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Technical data

Dimplex High-temperature brine-to-water heat pump for indoor installation (Medium temperature)

Heat pump code	4001
Max. flow temperature	70 Grad
Lower operating limit heat source (heating operation) / Upper operating limit heat source (heating operation)	-5 Grad / 25 Grad
Sound power level	62 dB(A)
Refrigerant / Amount of refrigerant	R134a / 4,2 kg
Max. heating water flow rate / Pressure drop	3,7 m3 pro h / 8500 Pa
Heat source flow (min.)	5,1 m3 pro h
Width x Height x Depth **	1000 x 1660 x 775 mm
Weight	307 kg
Rated voltage	3/N/PE ~400 V, 50 Hz
Starting current	30 A
Heat pump seal of approval (valid until)	Yes / 07.06.2019

*Heat output and coefficient of performance (COP) according to EN 14511

**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
Heat pumps				
Elasticated sound insulation underlay strips	SYL 250	352260	0	
Air-to-water heat pump connection kit	VSF 32	361800	0	
DN 32 double-sphere rubber expansion joint	KOMP 32	362060	0	
DN 32 dirt trap	SMF 32	362140	0	
Hydraulic accessories				
Transitional screw connection 1 1/4" internal thread to 1" external thread	KUP G1	366900	0	
Transitional screw connection 1 1/4" internal thread to R 1"	KUP G32	375810	0	
Hydraulic tower 300 litres	HPK 300	371600	1	
Immersion heater 4.5 kW; ~400 V	CTHK 633	322140	0	
Immersion heater 6.0 kW; ~400 V	CTHK 634	322150	0	
Transport aid for Hydro-Tower / LAW indoor unit	TH 270	370430	0	
Free-standing buffer tank 200 l	PSW 200	339830	0	
Universal buffer tank (500 l)	PSW 500	339210	0	
Dual differential pressureless manifold	DDV 32	348450	0	



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Description	Order ref.	Article number	Sample item	Item
High-efficiency circulating pump DN 32 with coupling relay	UPH 90-32	370420	0	
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	0	
Mixed heating circuit module	MMH 32	367790	0	
El. cont. circulating pump: Control type Δp -c, fixed speed; PWM control optional	UPE 80-32PK	380170	2	
Electronically controlled wet-running pump, self-regulating	UPE 100-32K	374730	0	
Mixer module for bivalent systems	MMB 32	367780	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	
Heating accessories				
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 165080	381210	97	
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650100	381220	97	
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650140	381230	97	
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650180	381240	97	
Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150100	381250	97	
Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150140	381260	97	



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Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150180	381270	97	
Heat pump heater vertical	WPHKV 1220053	381280	97	
DHW preparation accessories				
Domestic hot water cylinder (400 l) with temperature sensor	WWSP 442	372840	1	
Flange heater for domestic hot water	FLH 60	338060	0	
Flange heater for domestic hot water	FLHU 70	338070	0	
FLH 25M flange heater	FLH 25M	349430	0	
Safety valve combination	SVK 852	326660	0	
Domestic hot water cylinder (500l) with temperature sensor	WWSP 556	370080	0	
3-way reversing valve DN 32	DWV 32	374780	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	
Control accessories				



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Description	Order ref.	Article number	Sample item	Item
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	
Accessories for passive cooling				
Passive cooling station with cooling controller and 3-way reversing valve DN 25	PKS 14 Econ	362930	0	
Passive cooling station with cooling controller and 3-way reversing valve DN 40	PKS 25 Econ	362940	0	
Control accessories (cooling)				
Room climate station for temperature and humidity measurement	RKS WPM	342220	0	
Dew point monitor	TPW WPM	350970	0	
Solar thermal systems accessories				
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

Notes:

The heat source accessories are designed for ground heat collectors according to the project planning documentation.

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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