

## Data sheet SI 90TU



### Highly efficient brine-to-water heat pump for indoor installation.

Max. flow temperature: 62 °C

Casing colour: White (similar to RAL 9016)

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. 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 from the front, no minimum clearance required on the sides, accessible from underneath with a lift truck. High coefficient of performance through electronic expansion valve, COP booster and electronic pump control depending on the temperature spread in the brine and 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),



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circulating pumps for brine and heat generator circuit in the scope of supply (observe the free compression). Brine circulating pump 12 m delivery height at 11 m<sup>3</sup>/h, flange connection DN 65, installation length 340 mm; heat generator circuit pump 8 m delivery height at 14 m<sup>3</sup>/h, flange connection DN 65, installation length 340 mm. Heat pump white textured (similar to RAL 9003).

## Technical data

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

Heat pump code	4025
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	66 dB(A)
Refrigerant / Amount of refrigerant	R410A / 23 kg
Max. heating water flow rate / Pressure drop	14,7 m <sup>3</sup> pro h
Heat source flow (min.)	15,9 m <sup>3</sup> pro h
Width x Height x Depth **	1350 x 1900 x 840 mm
Weight	608 kg
Rated voltage	3/N/PE ~400 V, 50 Hz
Starting current	76 A

\*Heat output and coefficient of performance (COP) in accordance with EN 14511 in conjunction with the controlled circulating pumps in the brine and heat generator circuit.

\*\*Please note that additional space is required for pipe connections, operation and maintenance.

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