

# NEW REVERSIBLE COMPACT BRINE-TO-WATER

## HEAT PUMPS

### Heating with solar energy

Dimplex brine-to-water heat pumps are capable of heating your entire home. Approximately 75 % of the energy is extracted from the environment, i.e. the solar energy stored in the ground.

### Dynamic cooling

In conjunction with existing geothermal collectors, these reversible heat pumps can also be used to cool your home in the summer using existing underfloor heating and cooling systems or fan convectors.

### DHW as an added benefit

As an option, this new compact heat pump can also provide your home with hot water in accordance with the requirements of the system.

### Easy installation

This new range of reversible brine-to-water heat pumps can be installed in minimum time, since all hydraulic components for the ground-source system as well as for the heating and cooling circuit are already incorporated: 2 circulating pumps for the heating system and the brine, two 8-litre expansion vessels as well as safety devices.



SI ...MR and TR series heat pumps: Reversible brine-to-water heat pumps for indoor installation

Ordering code		SI 8 MR	SI 10 MR	SI 12 TR	SI 14 TR	SI 16 TR	SI 20 TR
<b>Operating temperature range</b>							
Heating	°C	max. + 55					
Cooling	°C	+ 7 to + 20					
Brine (heating)	°C	- 5 to + 25					
Brine (cooling)	°C	+ 5 to + 25					
<b>Heating capacity /coefficient de performance</b>							
Brine temp. -5 °C and hot water flow temp. 55 °C	kW/-	7,5/2,0	9,8/2,1	9,8/2,1	12,2/2,3	14,1/2,4	18,7/2,5
Brine temp. 0 °C and hot water flow temp. 50 °C	kW/-	8,8/2,8	11,3/2,9	11,3/2,9	13,5/2,9	16,3/3,2	20,4/3,1
Brine temp. 5 °C and hot water flow temp. 35 °C	kW/-	9,3/4,0	11,6/4,1	11,6/4,1	13,7/4,0	16,4/4,0	20,0/4,2
<b>Cooling capacity /coefficient of performance</b>							
Brine temp. 20 °C and cold water flow temp. 8 °C	kW/-	9,9/4,6	11,4/4,6	11,4/4,6	14,1/5,0	17,3/4,9	21,5/4,9
Brine temp. 20 °C and cold water flow temp. 18 °C	kW/-	12,0/5,4	14,1/5,3	14,1/5,3	17,4/5,9	21,5/5,9	26,0/5,7
Brine temp. 10 °C and cold water flow temp. 8 °C	kW/-	9,9/5,6	11,6/5,7	11,6/5,7	14,7/6,4	18,0/6,4	21,9/5,9
Brine temp. 10 °C and cold water flow temp. 18 °C	kW/-	12,4/6,7	14,1/6,5	14,1/6,5	17,4/7,1	21,5/7,3	27,7/7,1
Power consumption at brine temp. 0 °C/hot water flow temp. 35 °C	kW	2,3	2,8	2,8	3,41	4,1	4,8
Refrigerant	-/kg	R407C/1,25	R407C/1,6	R407C/1,6	R407C/2,1	R407C/2,5	R407C/3,2
Brine flow rate at internal pressure difference	m <sup>3</sup> /h/Pa	2,3/25000	3,0/24000	3,0/24000	3,5/17900	3,8/18400	3,5/13900
Heating water flow rate at internal pressure difference	m <sup>3</sup> /h/Pa	0,75/2300	1,0/4100	1,0/4100	1,3/4850	1,5/4000	1,6/3400
Dimensions (without connections) W x H x D	mm	640 x 1220 x 624					

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