

Thermia Comfort



Comfort

The complete climate control system.

Thermia Comfort is a perfect climate control system that ensures a pleasant indoor climate all year round. The combination of a heat pump and a cooling system provides you with warmth in the winter, coolness in the summer and hot water every day of the year. You simply select the temperature you want in your home and Comfort will do the rest.

The total energy consumption is low: the pump's high annual efficiency (SPF)* makes it possible for you to lower your heating costs by more than 70%, the cooling function consumes as little energy as a normal 100-watt bulb, and the TWS** technology built into the water tank allows great amounts of hot water to be produced with minimal energy consumption.

The pump utilises rock, surface ground, ground water or lake water as its heat sources.

Using the Thermia Online optional feature, you can control your heat pump via the Internet. In the unlikely event that something needs rectifying, you will be alerted automatically via text message or e-mail.



* SPF = (Seasonal Performance Factor) is the measurement of how efficiently the heat pump operates over the whole year.

** TWS = Patented heating technique for water heaters, developed by Thermia.

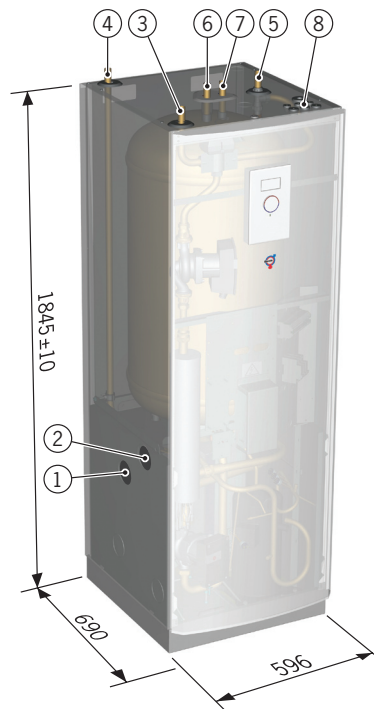
Technical data Comfort



Connection

The brine lines can be connected on either the left or right hand sides of the heat pump.

- 1 Brine supply line (Brine out), 28 Cu
- 2 Brine return line (Brine in), 28 Cu
- 3 Heating system supply line, 22 Cu
- 4 Heating system return line, 22 Cu
- 5 Expansion pipe, 22 Cu
- 6 Hot water pipe, 22 mm
- 7 Cold water pipe, 22 mm
- 8 Lead-in for incoming power supply, sensors and communication cable



Comfort			6	8	10	4H	5H	7H
Refrigerant	Type		R407C	R407C	R407C	R134a	R134a	R134a
	Amount	kg	1.20	1.30	1.45	0.90	1.00	1.10
Compressor	Type		Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Electrical data 3-N, -50Hz	Main supply	Volt	400	400	400	400	400	400
	Rated power, compressor	kW	2.0	2.3	3.6	2.0	2.3	3.6
	Rated power, circulation pumps	kW	0.2	0.2	0.4	0.2	0.2	0.3
	Auxiliary heater, 3 steps	kW	3/6/9	3/6/9	3/6/9	3/6/9	3/6/9	3/6/9
	Start current ¹	A	12	10	18	12	10	18
	Circuit breaker	A	10 ⁴ /16 ⁵ /20 ⁶	16 ⁴ /16 ⁵ /20 ⁶	16 ⁴ /16 ⁵ /20 ⁶	10 ⁴ /16 ⁵ /20 ⁶	16 ⁴ /16 ⁵ /20 ⁶	16 ⁴ /16 ⁵ /20 ⁶
Performance	COP ²		4.74	4.88	4.84	-	-	-
	COP ³		4.04	4.34	4.24	2.70 ⁹	2.90 ⁹	2.90 ⁹
	Heating capacity ³	kW	5.33	7.51	9.40	3.20 ⁹	4.50 ⁹	5.50 ⁹
	Power input ³	kW	1.3	1.7	2.2	1.2 ⁹	1.6 ⁹	1.9 ⁹
Min/max temperature	Cooling circuit	°C	20/-10	20/-10	20/-10	20/-10	20/-10	20/-10
	Heating circuit	°C	55/20	55/20	55/20	65/20	65/20	65/20
Anti freeze media			Ethylene glycol/Ethanol					
Sound power level ⁸		dB(A)	47	44	46	47	44	46
Water volume	Water heater	l	180	180	180	180	180	180
	Condensor	l	1.6	1.9	2.1	1.6	1.9	2.1
	Evaporator	l	0.7	1.2	1.6	0.7	1.2	1.6
Weight	Comfort, empty	kg	210	215	225	210	215	225
	Comfort, filled	kg	390	395	405	390	395	405

The measurements are performed on a limited number of heat pumps which can cause variations in the results. Tolerances in the measuring methods can also cause variations.

- 1) According to IEC61000.
- 2) At BOW35 Δ10K warm side (excluding circulation pumps).
- 3) At BOW35 according to EN 14511 (including circulation pumps).
- 4) Heat pump with 3 kW auxiliary heater (1-N 1.5 kW).
- 5) Heat pump with 6 kW auxiliary heater (1-N 3 kW).

- 6) Heat pump with 9 kW auxiliary heater (1-N 4.5 kW).
- 7) Fuse protection phase L1 (size 4 is equipped with an 1-phase compressor).
- 8) Sound power level measured according to EN ISO 3741 at BOW45 (EN 12102).
- 9) At BOW45 according to EN 14511 (including circulation pumps).

Thermia Värme AB reserves the right to make changes without further notice.
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