

Thermia Diplomat Diplomat Duo



Diplomat



Diplomat Duo



Efficient and reliable.

The **Thermia Diplomat** is an efficient and reliable heat pump. An ideal heating system for homes where no maintenance and low running costs are important. The pump's high annual efficiency, which is a measurement of the heat pump's efficiency over the whole year, means that you can reduce your heating costs by up to 75 percent.

The hot water tank is fitted with our TWS* technique, which means that the hot water is produced faster and at higher temperatures than with traditional technique.

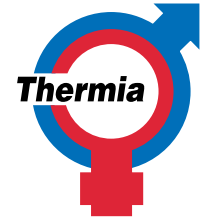
The pump utilises rock, surface ground, ground water or lake water as its heat sources.

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 SMS text message or e-mail.

The **Thermia Diplomat Duo** is a variant Thermia Diplomat. Thermia Diplomat Duo does not have an integrated hot water tank which makes it a good choice if you have a low ceiling height. A separate hot water tank (Thermia MBH) is available in volumes of 200 and 300 litres.

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

Technical data Diplomat Diplomat Duo



Connection Diplomat

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

- 1 Brine return line (Brine in), 28 Cu
- 2 Brine supply line (Brine out), 28 Cu
- 3 Heating system supply line, 22 Cu: 4-10 kW, 28 Cu: 12-16 kW
- 4 Heating system return line, 22 Cu: 4-10 kW, 28 Cu: 12-16 kW
- 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

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Diplomat/Diplomat Duo			4	6	8	10	12	16
Refrigerant	Type		R407C	R407C	R407C	R407C	R407C	R407C
	Amount	kg	0.75	1.20	1.30	1.45	1.55	2.00
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	2.7	2.0	2.3	3.6	4.4	5.6
	Rated power, circulation pumps	kW	0.2	0.2	0.2	0.4	0.5	0.5
	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	17	12	10	18	17	18
	Circuit breaker	A	16 ⁷ +10 ⁷ /10 ⁷ /16 ⁶	10 ⁷ /16 ⁷ /20 ⁶	16 ⁷ /16 ⁷ /20 ⁶	16 ⁷ /16 ⁷ /20 ⁶	16 ⁷ /20 ⁷ /25 ⁶	20 ⁷ /20 ⁷ /25 ⁶
	Electrical data 1-N, -50Hz	Main supply	Volt	230	230	230	230	230
Rated power, compressor		kW	2.7	3.3	4.2	5.4	5.7	*
Rated power, circulation pumps		kW	0.2	0.2	0.2	0.4	0.5	*
Auxiliary heater, 3 steps		kW	1.5/3.0/4.5	1.5/3.0/4.5	1.5/3.0/4.5	1.5/3.0/4.5	1.5/3.0/4.5	*
Start current ¹		A	17	11	21	26	28	*
Circuit breaker		A	20 ⁷ /25 ⁷ /32 ⁶	25 ⁷ /32 ⁷ /40 ⁶	25 ⁷ /32 ⁷ /40 ⁶	32 ⁷ /40 ⁷ /50 ⁶	32 ⁷ /40 ⁷ /50 ⁶	*
Performance		COP ²		4.37	4.74	4.88	4.84	4.75
	COP ³		3.90	4.04	4.34	4.24	4.20	3.99
	Heating capacity ³	kW	3.52	5.33	7.51	9.40	11.0	16.4
	Power input ³	kW	0.9	1.3	1.7	2.2	2.6	4.1
Max/min 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	55/20	55/20	55/20
Anti freeze media			Ethylene glycol/Ethanol					
Sound power level⁸	Diplomat	dB(A)	46	47	44	46	48	57
	Diplomat Duo	dB(A)	46	44	44	47	48	50
Water volume	Diplomat	l	180	180	180	180	180	180
	Diplomat Duo	l	Optional	Optional	Optional	Optional	Optional	Optional
Weight	Diplomat, empty	kg	225	229	229	229	238	242
	Diplomat, filled	kg	405	409	409	409	418	422
	Diplomat Duo, empty	kg	140	145	150	155	165	175

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 L-phase compressor).
- 8) Sound power level measured according to EN ISO 3741 at BOW45 (EN 12102).
- *) Not available in this version.

Thermia Värme AB reserves the right to make changes without further notice. 100428_D_DD_ENG