

Thermia Diplomat Diplomat Duo



Diplomat



Diplomat Duo



Efficient and reliable.

The **Thermia Diplomat** is our baseline ground source heat pump that is the ideal solution for homes with basic needs for an efficient and reliable heating system. 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.

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: 6-10 kW, 28 Cu: 12-16 kW
- 4 Heating system return line, 22 Cu: 6-10 kW, 28 Cu: 12-16 kW
- 5 Connection for bleed valve, 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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- 5 Lead-in for incoming power supply, sensors and communication cable
- 6 Return line from water heater, 22 mm



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Diplomat/Diplomat Duo			6	8	10	12	16*
Refrigerant	Type		R407C	R407C	R407C	R407C	R407C
	Amount	kg	1.05	1.20	1.40	1.55	2.00
Compressor	Type		Scroll	Scroll	Scroll	Scroll	Scroll
Electrical data 3-N, -50Hz	Main supply	Volt	400	400	400	400	400
	Rated power, compressor	kW	3.0	3.2	4.2	5.0	7.2
	Rated power, circulation pumps	kW	0.2	0.2	0.5	0.5	0.6
	Auxiliary heater, 3 steps	kW	3/6/9	3/6/9	3/6/9	3/6/9	3/6/9
	Start current ¹	A	9	10	12	14	20
	Fuse	A	10 ⁴ /16 ⁵ /20 ⁶	16 ⁴ /16 ⁵ /20 ⁶	16 ⁴ /16 ⁵ /20 ⁶	16 ⁴ /20 ⁵ /25 ⁶	20 ⁴ /20 ⁵ /25 ⁶
Electrical data 1-N, -50Hz	Main supply	Volt	230	230	230	230	**
	Rated power, compressor	kW	3.2	4.1	4.5	5.5	**
	Rated power, circulation pumps	kW	0.2	0.2	0.5	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	**
	Start current ¹	A	22	24	26	28	**
	Fuse	A	25 ⁴ /32 ⁵ /40 ⁶	32 ⁴ /40 ⁵ /50 ⁶	32 ⁴ /40 ⁵ /50 ⁶	32 ⁴ /40 ⁵ /50 ⁶	**
Performance	COP ²		4.74	4.88	4.84	4.75	4.80
	COP ³		4.04	4.34	4.24	4.20	4.19
	Heating capacity ³	kW	5.33	7.51	9.40	11.0	16.8
	Electrical power ³	kW	1.3	1.7	2.2	2.6	4.0
Max/min temperature	Cooling circuit	°C	20/-10	20/-10	20/-10	20/-10	20/-10
	Heating circuit	°C	60/20	60/20	60/20	60/20	60/20
Anti freeze media	Ethanol + water solution with freezing point -17 ±2 °C ⁸						
Sound power level⁷	Diplomat	dB(A)	47	44	46	49	**
	Diplomat Duo	dB(A)	45	44	47	48	50
Water volume	Diplomat	l	180	180	180	180	**
	Diplomat Duo	l	Optional	Optional	Optional	Optional	Optional
Weight	Diplomat, empty	kg	229	229	229	238	**
	Diplomat, filled	kg	409	409	409	418	**
	Diplomat Duo	kg	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 (I-N 1.5 kW).

5) Heat pump with 6 kW auxiliary heater (I-N 3 kW).

6) Heat pump with 9 kW auxiliary heater (I-N 4.5 kW).

7) Sound power level measured according to EN ISO 3741 at BOW45 (EN 12102).

8) Always check local rules and regulations before using antifreeze.

*) Only Diplomat Duo.

**Not available in this version.