

Thermia Diplomat Optimum Diplomat Duo Optimum



Minimum energy consumption thanks to speed control.

The **Thermia Diplomat Optimum** has speed control, which means that its performance can be continuously adjusted to the prevailing requirements and conditions. No unnecessary work – maximum efficiency and minimum energy consumption all the time. The 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 more than 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 Optimum** is a variant of the Thermia Diplomat Optimum. What separates them is that the Thermia Diplomat Duo Optimum does not have an integrated hot water tank. A separate hot water tank (Thermia MBH) is available in volumes of 200 and 300 litres.

The Thermia Diplomat Duo Optimum is a good choice if you have a low ceiling height or require very large amounts of hot water.

Diplomat Optimum



Diplomat Duo Optimum



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

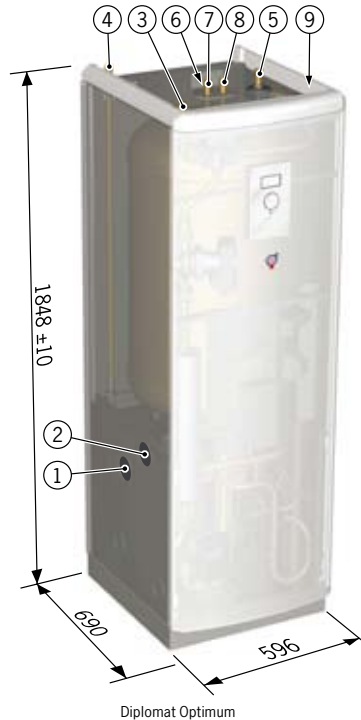
Technical data Diplomat Optimum

Diplomat Duo Optimum

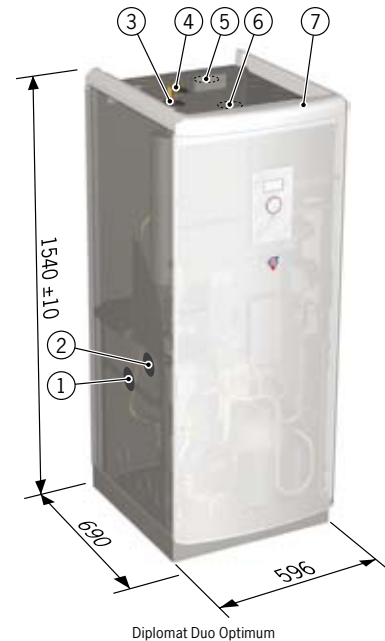
Connection Diplomat Optimum

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 Lifting point
- 7 Hot water pipe, 22 Cu or stainless steel
- 8 Cold water pipe, 22 Cu or stainless steel
- 9 Lead-in for incoming power supply, sensors and communication cable



Diplomat Optimum



Diplomat Duo Optimum

Connection Diplomat Duo Optimum

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- 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 Alternative for brine supply
- 6 Alternative for brine return
- 7 Lead-in for incoming power supply, sensors and communication cable

Diplomat Optimum	6	8	10	12	16	ES6	ES8	ES10	ES12
Refrigerant, R407C	1.2 kg	1.3 kg	1.45 kg	1.55 kg	2.0 kg	1.2 kg	1.3 kg	1.45 kg	1.55 kg
Mains supply	400V 3-N	400V 3-N	400V 3-N	400V 3-N	400V 3-N	230V 1-N	230V 1-N	230V 1-N	230V 1-N
Auxiliary heater	3/6/9 kW	3/6/9 kW	3/6/9 kW	3/6/9 kW	3/6/9 kW	1.5/3/4.5 kW	1.5/3/4.5 kW	1.5/3/4.5 kW	1.5/3/4.5 kW
Output capacity ¹⁾	4.9 kW	7.2 kW	8.9 kW	10.7 kW	15.2 kW	4.9 kW	7.2 kW	8.9 kW	10.7 kW
Heat factor (COP) ¹⁾	2.98	3.27	3.44	3.34	3.29	2.98	3.27	3.44	3.34
Circuit breaker	10 ²⁾ /16 ³⁾ / 20 ⁴⁾ A	16 ²⁾ /16 ³⁾ / 20 ⁴⁾ A	16 ²⁾ /16 ³⁾ / 20 ⁴⁾ A	16 ²⁾ /20 ³⁾ / 25 ⁴⁾ A	20 ²⁾ /20 ³⁾ / 25 ⁴⁾ A	20 ²⁾ /25 ³⁾ / 32 ⁴⁾ A	25 ²⁾ /32 ³⁾ / 40 ⁴⁾ A	32 ²⁾ /40 ³⁾ / 50 ⁴⁾ A	32 ²⁾ /40 ³⁾ / 50 ⁴⁾ A
Volume, hot water heater	180 liter	180 liter	180 liter	180 liter	180 liter	180 liter	180 liter	180 liter	180 liter
Weight	229 kg	229 kg	229 kg	238 kg	242 kg	229 kg	229 kg	229 kg	238 kg
Diplomat Duo Optimum	6	8	10	12	16	ES6	ES8	ES10	ES12
Refrigerant, R407C	1.2 kg	1.3 kg	1.45 kg	1.55 kg	2.0 kg	1.2 kg	1.3 kg	1.45 kg	1.55 kg
Mains supply	400V 3-N	400V 3-N	400V 3-N	400V 3-N	400V 3-N	230V 1-N	230V 1-N	230V 1-N	230V 1-N
Auxiliary heater	3/6/9 kW	3/6/9 kW	3/6/9 kW	3/6/9 kW	3/6/9 kW	1.5/3/4.5 kW	1.5/3/4.5 kW	1.5/3/4.5 kW	1.5/3/4.5 kW
Output capacity ¹⁾	4.9 kW	7.2 kW	8.9 kW	10.7 kW	15.2 kW	4.9 kW	7.2 kW	8.9 kW	10.7 kW
Heat factor (COP) ¹⁾	2.98	3.27	3.44	3.34	3.29	2.98	3.27	3.44	3.34
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Weight	145 kg	150 kg	155 kg	165 kg	175 kg	145 kg	150 kg	155 kg	165 kg

- 1) Tested according to EN14511 at BOW45 (including circulation pumps) 2) Heat pump with 3 kW auxiliary heater (1-N 1.5 kW)
3) Heat pump with 6 kW auxiliary heater (1-N 3 kW) 4) Heat pump with 9 kW auxiliary heater (1-N 4.5 kW)

