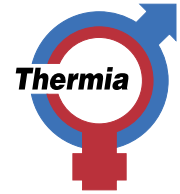


Thermia Diplomat TWS



Thermia Diplomat TWS

Thermia Diplomat TWS – Heat pump with increased hot water capacity

Thermia Diplomat TWS is a highly efficient heat pump for space heating and hot water production.

Thermia has through the new technique TWS optimized the hot water production.

TWS is an abbreviation of Tap Water Stratificator and this technique has resulted in a more efficient heat transfer and stratification of the water in the hot water tank.

The increased volume of the tank, 180l, together with the improved hot water production results in a substantially increased capacity of hot water.

In Thermia Diplomat TWS we make use of the latest technologies. The advanced scroll compressor, specially developed for heat pumps, is one of them. The effective heat exchanger and sub-cooler that help to extract additional heat are two other examples.

The Thermia Diplomat TWS is very easy to operate through the advanced but user-friendly controller. With the control and monitoring system Thermia Online (accessory) you can regulate your heat pump as you please, anytime, wherever you are and where you have an Internet connection. In the case of an alarm event a message will immediately be sent to you and/or your installer through an email or SMS.

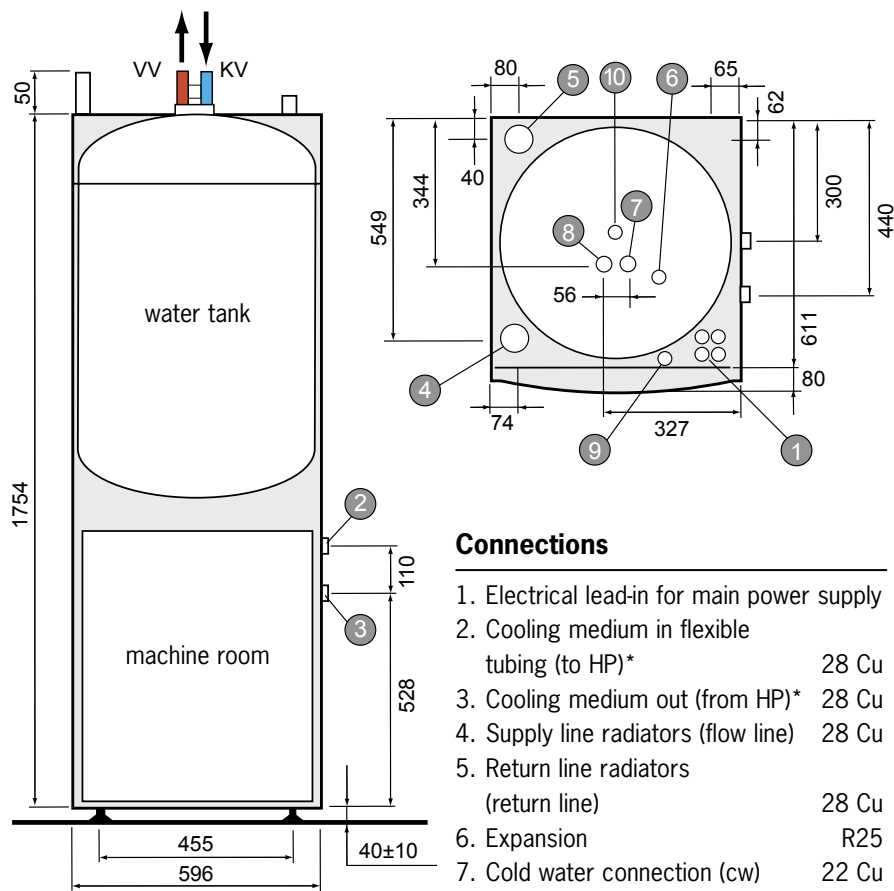
Thermia Diplomat TWS is available in the output range 6 – 16 kW.

With Thermia Diplomat TWS you will reduce your heating costs and have a reliable, convenient and environmentally friendly heating solution.



To feel confident that the heat pump is operating well, all you need to check is the green lamp.

Thermia Diplomat TWS



Connections

1. Electrical lead-in for main power supply
2. Cooling medium in flexible tubing (to HP)* 28 Cu
3. Cooling medium out (from HP)* 28 Cu
4. Supply line radiators (flow line) 28 Cu
5. Return line radiators (return line) 28 Cu
6. Expansion R25
7. Cold water connection (cw) 22 Cu
8. Hot water connection (hw) 22 Cu
9. Lead-in for communication cable
10. Lifting connection R3/4

*) Connection can be made from either the left or right side.

Accessories

Thermia Online	5206-54394001	Strainer 1 1/4"	5207-32150
Flexible hose	5211-50730A00	Filter ball 1"	9360-52488001
Strainer 1"	5207-25150	Room sensor	5206-54404001

Technical data Thermia Diplomat TWS

Model	6	8	10	12	16
Refrigerant,	R407C	R407C	R407C	R407C	R407C
Refrigerant, kg	1,1	1,25	1,45	1,7	1,8
Mains, V	400V 3-N	400V 3-N	400V 3-N	400V 3-N	400V 3-N
Rated input, kW	Compressor 2.0 5,0/8,0/11,0	Compressor 2.3 5,3/8,3/11,3	Compressor 3.6 6,6/9,6/12,6	Compressor 4.4 7,4/10,4/13,4	Compressor 5.6 8,6/11,6/14,6
Immersion heater, kW	3/6/9	3/6/9	3/6/9	3/6/9	3/6/9
Fuse**, A	10/16/20	16/16/20	16/16/20	16/20/25	20/20/25
Output capacity, kW*	5,78/5,52	8,13/7,73	9,54/9,24	11,12/10,53	16,61/15,78
Coefficient of performance* COP	4,2/3,1	4,6/3,4	4,4/3,3	4,5/3,3	4,4/3,2
Starting current LRA, A	14	25	29	32	45
Volume, hot water tank, l	180	180	180	180	180
Nominal flow					
- cooling medium, l/sec	0,31	0,47	0,57	0,63	0,92
- heat medium, l/sec	0,13	0,19	0,22	0,26	0,40
External available pressure					
- cooling medium, kPa	31	33	32	64	56
- heat medium, kPa	43	39	34	48	40
Weight, kg	229	229	229	238	242

* In accordance with EN 255 for cooling medium in/heating medium out 0/35°C and 0/50°C.

** Heat pump with 3/6/9 kW immersion heater.

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