

Cetetherm AquaTank

316TI WITH HEATING COIL



Domestic Hot Water storage tank with heating coil, 125-1000 litres

APPLICATIONS

Domestic hot water storage tanks equipped with a stainless steel heating coil dedicated to charge the vessel. Available from 125 - 1000 litres, these tanks are designed for use in combination with boilers. Ideal for any premises where the water flow need is not constant such as in:

- apartment blocks
- hotels
- schools
- leisure centres...

KEY BENEFITS

- Power demand can be substantially reduced
- Best quality for 10bar applications
- Extremely hygienic: no galvanic corrosion
- Energy saving insulation
- Very long lifetime
- Simplicity

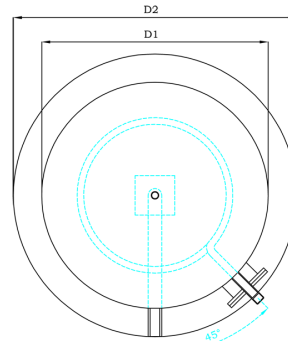
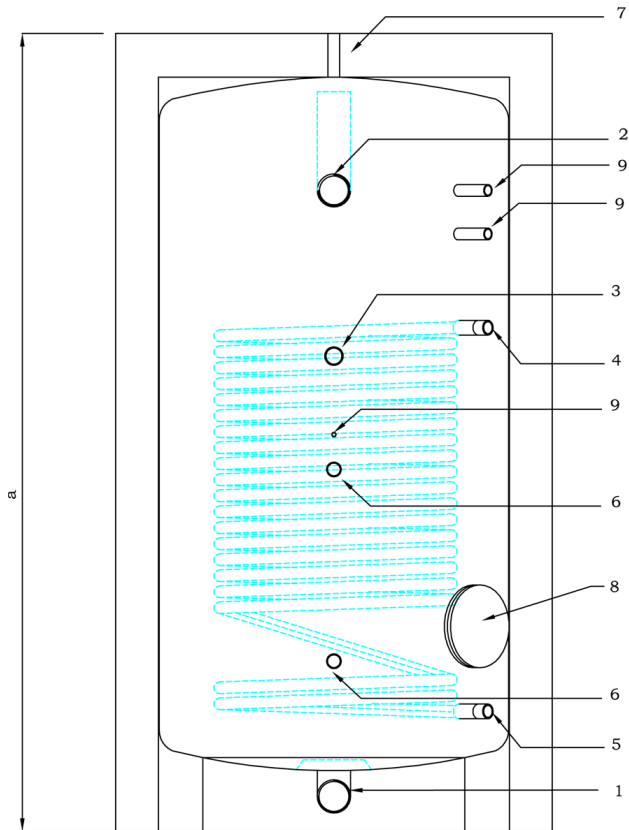
WORKING PRINCIPLE

The AquaTank acts as a buffer to meet the power peaks occurring at high water flow rates. With the built-in heating coil heating takes place very quickly, because the water that has been heated by the coil is stored at the top of the vessel. The specific AquaTank internal tube arrangement keeps the hot water separated from the recycling and cold water inlet. The cold water inlet at the very bottom of the tank (see flowchart) avoids having a zone of stagnant cold water inside the vessel. When high demand occurs, hot water is drawn from the bottom to the centre and from the centre to the very top of the vessel.

INSULATION

- The energy saving insulation is made of Neodul and the surface is covered with an impact-resistant polyester hard plastic (see technical data).
- Conform to the EU directive of energy efficiency, to the PED 97/23/EEC and to Eurofire class (see technical data).
- Extremely low heat losses thanks to the special design of the insulation avoiding the so-called "chimney-effect" between insulation and vessel surface (see technical data).
- Very easy to remove and refit makes this vessel easy to transport into and out of premises.

DRAWING



Connections (see table for sizes)

1. Cold water inlet
2. Hot water outlet
3. Hot water circulation
4. Primary flow, male thread
5. Primary return, male thread
6. Instrument connection, 3/4"
7. Air vent, 1/2"
8. Inspection opening,
9. Instrument connection, 1/2"

Note: All drawings are available on Anytime, our Ebusiness for channel partners

TECHNICAL DATA

Article number	Tank capacity (L)	Inspection opening (inch or mm)	Dimensions* (mm)			Connections		Heat losses (kWh in 24 h)	Dry weight with insulation (kg)
			a	D1	D2	1, 2, & 3 (inch or DN)	4 & 5 (inch)		
AQTHC012SA4	125	Rp2"	995	500	700	1" / 1" / 3/4"	1"	1.19	57
AQTHC016SA4	160	Rp2"	1245	500	700	1" / 1" / 3/4"	1"	1.21	68
AQTHC020SA4	200	Rp2"	1495	500	700	1" / 1" / 3/4"	1"	1.4	87
AQTHC035SB4	350	120/180mm	1725	550	750	1 1/4" / 1 1/4" / 3/4"	1"	1.84	110
AQTHC050SB4	500	120/180mm	1745	650	850	1 1/4" / 1 1/4" / 3/4"	1"	2.36	132
AQTHC075SB4	750	120/180mm	1830	800	1000	2" / 2" / 1"	1"	2.89	191
AQTHC100SB5	1000	120/180mm	2080	850	1050	2" / 2" / 1"	1"	3.36	243

* Dimensions are target values. Binding figures are shown on the drawings

INSULATION CHARACTERISTICS

- Eurofire class D S1, do/EN 13501-1 (or B2 / DIN4102)
- Neodul 80/20 (100mm) covered with a polyester hard plastic
- Energy efficiency class according to European Union rule N°814/2013 and N°812/2013:
 - 125 to 200L: energy efficiency class B
 - 350 to 1000L: energy efficiency class C

Operating limits	Maximum operating pressure (gauge)	Maximum operating temperature
Tank	10 bar	95°C
Coil	25 bar	200°C