



## AquaTank HC 316Ti

Storage water heater, 125-1000 litre

AquaTank HC 316Ti is our range of indirectly heated, unvented (closed) storage water heaters made of stainless steel. This leaflet describes standard cylinders available in capacities between 125 and 1000 litres.

### Pressure vessel code

AquaTank HC 316Ti meets the requirements of the PED 97/23/EEC code. Other pressure vessel codes can be offered on request.

### Heating coil reduces the power demand

AquaTank HC 316Ti is equipped with a stainless steel heating coil to charge the vessel. The AquaTank HC is then employed to store drinking water in facilities in which the water flow is not constant – where sudden high demands occur more or less regularly, such as in apartment houses, sports centres, schools, hotels and hospitals. With a built in heating coil, the power demand can be substantially reduced compared to a direct water heater, since the AquaTank HC acts as a buffer to meet the power peaks occurring at high water flow rates. Following such high water demand, heating takes place very quickly, because the water that has been heated by the coil is stored at the top of the tank. The recovery period is short. The unique shape of the heating coil reaches down to the bottom and heats all of the water inside the vessel.

### High effectiveness for maximum hot water

The effectiveness of this type of storage tank from which hot water is drawn depends on its ability to keep the hot water separated from the cold water admitted into the tank. The AquaTank HC is particularly good in this respect because of its internal tube arrangement. The incoming cold water is gently distributed across the bottom of the tank, which prevents it from mixing with the hot water. The hot water is then drawn from the very top in the centre of the cylinder. Moreover, since vertical hot water storage tanks are more effective than horizontal ones, the AquaTank HC is of upright design.

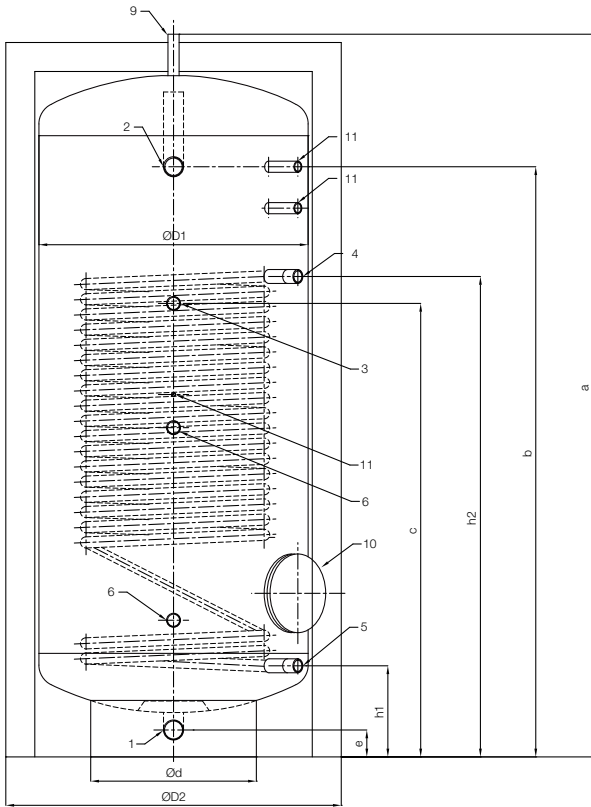
### Effective and environment-friendly insulation

The insulation is made of environment-friendly CFC-free polyurethane foam, The surface of the insulation is covered with



an impact-resistant ABS plastic. The insulation is very easy to remove and refit, making the unit easy to transport into and out of the premises. The special design of the insulation avoids the so called “chimney-effect” between insulation and cylinder surface guaranteeing for the lowest heat losses.

This insulation conforms to the strict energy saving demands stipulated by the German EnEV law.



#### 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" \*\*
8. Drain (to be put into connecting pipe work)
9. Air vent, 1/2" \*\*
10. Inspection opening, 120 mm dia.\*\*\*
11. Instrument connection, 1/2"

#### Notes:

All connections have female threads, except the primary connections.

#### Operating data:

|               |                                 |        |
|---------------|---------------------------------|--------|
| <b>Vessel</b> | Max. operating pressure (gauge) | 10 bar |
|               | Max. operating temperature      | 95°C   |
| <b>Coil</b>   | Max. operating pressure (gauge) | 25 bar |
|               | Max. operating temperature      | 200°C  |

| Tank capacity<br>Litres | Dimensions, mm |      |      |     |      |     |     |      |    | Connection sizes, inch |       |     |   |   | Heat losses kWh<br>in 24h | Dry weight<br>kg |
|-------------------------|----------------|------|------|-----|------|-----|-----|------|----|------------------------|-------|-----|---|---|---------------------------|------------------|
|                         | a              | b    | c    | h1  | h2   | d   | D1  | D2   | e  | 1                      | 2     | 3   | 4 | 5 |                           |                  |
| 125                     | 940            | 940  | 940  | 190 | 560  | 400 | 500 | 660  | 65 | 1                      | 1     | 3/4 | 1 | 1 | 1.8                       | 40               |
| 160                     | 1190           | 1190 | 1190 | 190 | 740  | 400 | 500 | 660  | 65 | 1                      | 1     | 3/4 | 1 | 1 | 1.9                       | 50               |
| 200                     | 1440           | 1440 | 1440 | 190 | 740  | 400 | 500 | 660  | 65 | 1                      | 1     | 3/4 | 1 | 1 | 2.2                       | 58               |
| 350                     | 1725           | 1425 | 1095 | 220 | 1280 | 400 | 550 | 710  | 65 | 1 1/4                  | 1 1/4 | 3/4 | 1 | 1 | 2.5                       | 85               |
| 500                     | 1745           | 1425 | 1095 | 220 | 1325 | 400 | 650 | 810  | 65 | 1 1/4                  | 1 1/4 | 3/4 | 1 | 1 | 3.1                       | 95               |
| 750                     | 1830           | 1470 | 1090 | 275 | 1155 | 600 | 800 | 1000 | 80 | 2                      | 2     | 1   | 1 | 1 | 3.8                       | 145              |
| 1000                    | 2080           | 1705 | 1440 | 265 | 1080 | 700 | 850 | 1050 | 80 | 2                      | 2     | 1   | 1 | 1 | 4.2                       | 195              |

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

\* For capacities between 125 and 200 litres, the connections are at the top of the vessel

\*\* Only for capacities between 350 and 1000 litre

\*\*\* 2" female for capacities between 125 and 200 litre

ECF00152EN 0811

Alfa Laval reserves the right to change specifications without prior notification.

#### How to contact Alfa Laval

Up-to-date Alfa Laval contact details for all countries are always available on our website at [www.alfalaval.com](http://www.alfalaval.com).