

ATSH 160-1000

Stainless Steel High Capacity Cylinders for DHW



The Adveco ATSh range of stainless steel hot water tanks serve as buffer vessels and indirect hot water calorifiers suitable for use with high pressure applications.

The ATSH is a high quality indirect water heater constructed from corrosion resistant AISI 316Ti and 316L stainless steel. Each vessel features a single internal high capacity fixed heating coil at low level for use with a high powered indirect heat source, as well as multiple connection points and a clean-out access flange.

All tanks are designed, manufactured, and tested to the requirements of the Pressure Equipment Directive (97/23/EC) and EN 12897.

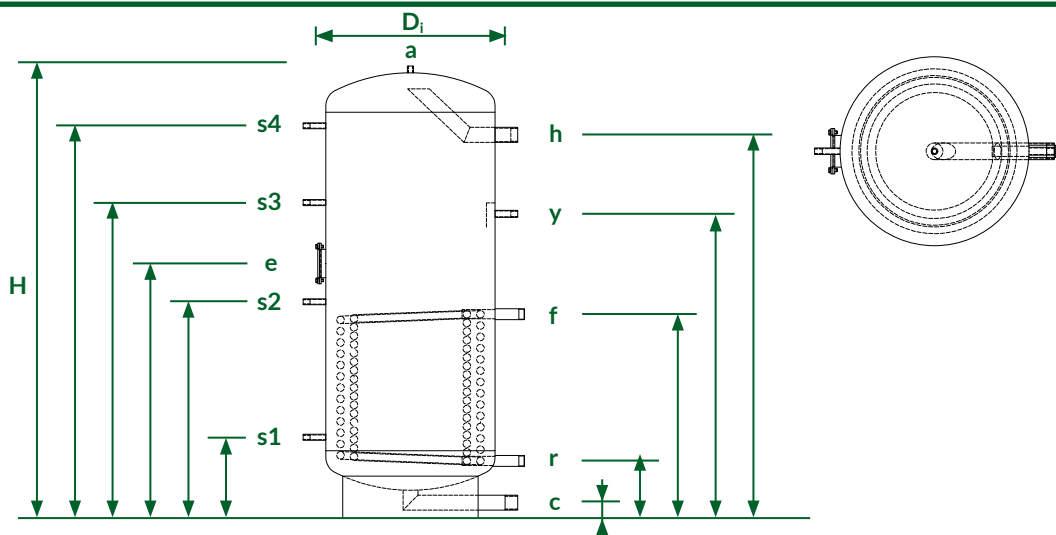
FEATURES

- Available with 160 - 1000 litre capacities
- Produced from high quality 316Ti and 316L stainless steel
- 100 mm removable insulation for improved energy efficiency
- Suitable for vented or unvented installation
- 10 bar / 95°C max. working pressure/temp (tank)
- 25 bar / 200°C max. working pressure/temp (coil)

OPTIONS & ANCILLARIES

- E0008/0-95C: Control Thermostat with 0-95°C range
- E0011: Overheat thermostat
- E0009.2: Chrome thermostat pocket (2x included with vessel)
- MB0001: Destratification pump kit
- Unvented Kits: Contact Adveco for options and details





Specifications

| Description | 160 | 200 | 300 | 400 | 500 | 750 | 1000 |
|---|---------|-------|-------|--------|--------|--------|--------|
| Volume (l) | 172 | 212 | 289 | 411 | 490 | 756 | 990 |
| Energy efficiency class | B | B | B | C | C | C | C |
| Standing losses | W | 50 | 58 | 66 | 85 | 98 | 140 |
| | kWh/24h | 1.20 | 1.39 | 1.58 | 2.04 | 2.35 | 3.36 |
| Dry mass (kg) | 66 | 79 | 96 | 128 | 139 | 185 | 208 |
| Lower coil surface area (m ²) | 1.4 | 1.8 | 2.6 | 3.8 | 4.0 | 5.0 | 7.0 |
| Output capacity (80/60:10/60) (kW) | 29.7 | 38.3 | 55.3 | 80.8 | 85.1 | 106.4 | 148.9 |
| DHW flow rate (80/60:10/60) (l/h) | 509.7 | 657.2 | 948.9 | 1386.5 | 1460.3 | 1825.8 | 2555.1 |
| DHW peak half hour flow (l) | 350 | 443 | 627 | 907 | 1000 | 1366 | 1857 |
| DHW peak hour flow (l) | 608 | 776 | 1107 | 1609 | 1740 | 2290 | 3151 |
| DHW peak two hour flow (l) | 1114 | 1429 | 2050 | 2986 | 3191 | 4104 | 5689 |

Connections

| Label | Description | 160 | 200 | 300 | 400 | 500 | 750 | 1000 |
|----------------|--------------------------------|----------|----------|----------|----------|----------|----------|----------|
| c | Cold water inlet | 1" | 1" | 1" | 1 ½" | 1 ½" | 2" | 2" |
| h | Hot water outlet | ¾" | 1" | 1" | 1 ½" | 1 ½" | 2" | 2" |
| f, r | Heat exchanger flow and return | 1" | 1" | 1" | 1" | 1" | 1 ½" | 1 ½" |
| y | Secondary return | ¾" | ¾" | ¾" | ¾" | ¾" | ¾" | ¾" |
| a | Air vent connection | 1" | 1" | 1" | 1" | 1" | 1" | 1" |
| s1, s2, s3, s4 | Sensor pocket | ½" | ½" | ½" | ½" | ½" | ½" | ½" |
| e | Clean-out flange (mm) | Ø180/120 | Ø180/120 | Ø180/120 | Ø180/120 | Ø180/120 | Ø180/120 | Ø180/120 |

Dimensions

| Label | Description | 160 | 200 | 300 | 400 | 500 | 750 | 1000 |
|-------|-------------------------------------|------|------|------|------|------|------|-------|
| H | Height including insulation | 1240 | 1490 | 1740 | 1735 | 1985 | 2075 | 2075 |
| Do | Outer diameter including insulation | Ø700 | Ø700 | Ø700 | Ø800 | Ø800 | Ø950 | Ø1050 |
| Di | Inner diameter | Ø500 | Ø500 | Ø500 | Ø600 | Ø600 | Ø750 | Ø850 |
| c | Cold water inlet | 70 | 70 | 70 | 70 | 70 | 70 | 70 |
| h | Hot water outlet | 895 | 1145 | 1395 | 1420 | 1670 | 1700 | 1700 |
| f | Flow from heat source | 485 | 585 | 775 | 830 | 885 | 905 | 905 |
| r | Return to heat source | 195 | 195 | 195 | 215 | 215 | 255 | 255 |
| y | Secondary return | 695 | 880 | 1180 | 1150 | 1400 | 1350 | 1350 |
| s1 | Sensor pocket | 285 | 285 | 285 | 310 | 310 | 360 | 360 |
| s2 | Sensor pocket | 530 | 650 | 815 | 895 | 950 | 960 | 960 |
| s3 | Sensor pocket | 825 | 950 | 1240 | 1200 | 1490 | 1400 | 1400 |
| s4 | Sensor pocket | 915 | 1165 | 1415 | 1440 | 1690 | 1740 | 1740 |
| e | Flange centre point | 675 | 800 | 975 | 1035 | 1090 | 1130 | 1130 |

All threaded connections are Rp female unless otherwise stated. Coil connections R. All dimensions in mm.

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