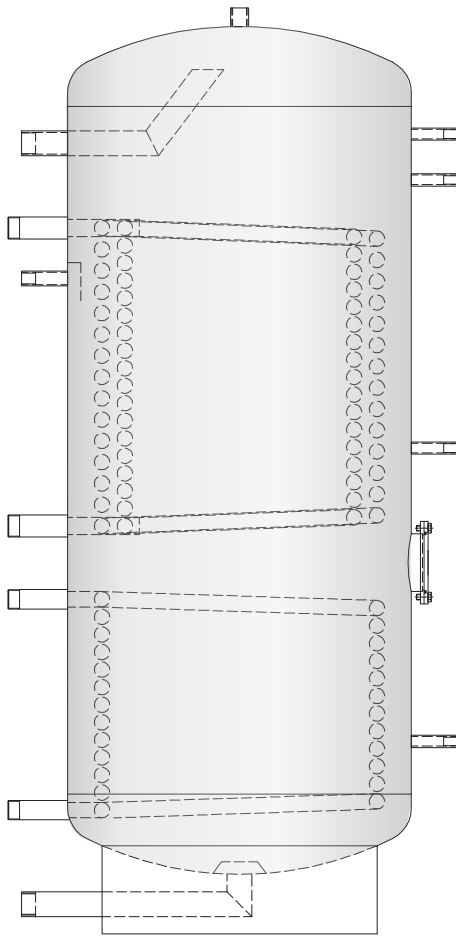


ATSR 300-1000

Stainless Steel Renewable Cylinders for DHW Applications



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

The ATSR is a high quality indirect water heater constructed from corrosion resistant AISI 316Ti and 316L stainless steel. Each vessel features two internal fixed heating coils with an increased surface area designed for use with renewable heat sources, at low and high-level, as well as multiple connection points and a mid-level 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.

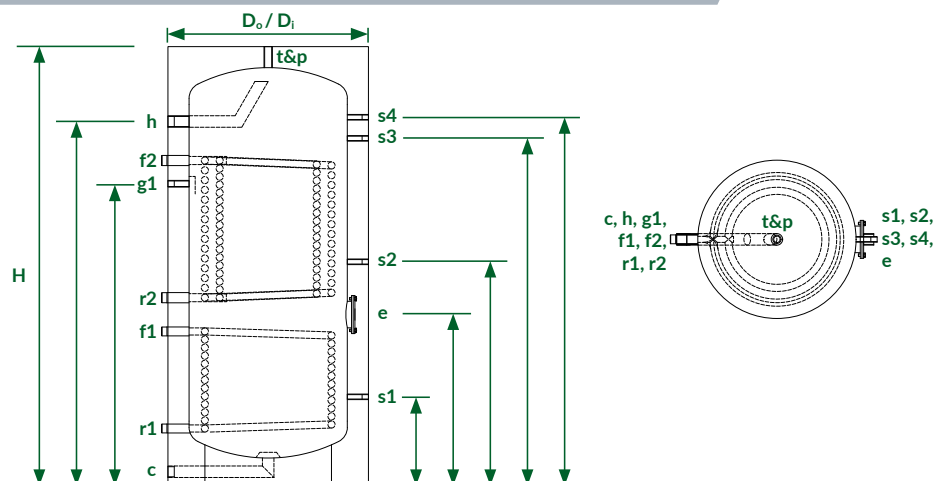
FEATURES

- Available with 300 - 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)
- 10 bar / 95-110°C max. working pressure/temp (coils)



OPTIONS & ANCILLARIES

- E0008/0-95C: Control Thermostat with 0-95°C range
- E0011: Overheat thermostat
- E0009.2: Chrome thermostat pocket
- Immersion heater options from 3-12 kW
- MB0001: Destratification pump kit
- Unvented Kits: Contact Advenco for options and details



Specifications

Description		300	400	500	750	1000
Storage volume (l)		289	401	490	756	990
Standing losses (W) / Energy efficiency class		66 / B	85 / C	98 / C	120 / C	140 / C
Coil surface area (m ²)	Lower coil	1.4	1.5	1.6	2.5	2.8
	Upper coil	2.5	3.0	4.5	5.5	6.5
Output capacity (kW)	Lower coil (50/40:10/45)	29.8	31.9	34.0	53.1	59.5
	Upper coil (70/50:10/60)	53.1	63.8	95.6	116.9	138.1
Nominal primary flow rate (m ³ /h)	Lower coil	1.28	1.37	1.46	2.28	2.55
	Upper coil	2.28	2.73	4.10	5.01	5.92
Nominal coil pressure drop (mbar)	Lower coil	18.1	22.0	26.4	91.9	126.3
	Upper coil	15.1	22.7	70.8	124.2	198.2
Continuous DHW flow rate (l/h)	Lower coil (50/40:10/45)	511	547	583	911	1021
	Upper coil (70/50:10/60)	911	1095	1640	2006	2370
	Combined coils	1423	1642	2224	2917	3391
Peak draw off capacity (l)	30 min.	824	1005	1319	1820	2205
	60 min.	1544	1837	2445	3298	3922
	120 min.	2958	3468	4655	6196	7291
Dry mass (kg)		75	86	137	175	268

Connections

Label	Description	300	400	500	750	1000
c, h	Water inlet and outlet	1½"	1½"	1½"	1½"	2"
f1, r1	Lower heat exchanger flow and return	1"	1"	1¼"	1¼"	1¼"
f2, r2	Upper heat exchanger flow and return	1¼"	1¼"	1¼"	1½"	1½"
t&p	T&P relief valve connection	1"	1"	1"	1"	1"
g1	Additional connection	¾"	¾"	¾"	¾"	¾"
s1, s2, s3, s4	Sensor pockets	¾"	¾"	¾"	¾"	¾"
e	Clean-out flange (mm)	Ø180/120	Ø180/120	Ø180/120	Ø180/120	Ø180/120

Dimensions

Label	Description	300	400	500	750	1000
H	Height including insulation	1740	1975	1985	2080	2090
D _o	Outer diameter with insulation	Ø700	Ø750	Ø800	Ø950	Ø1050
D _i	Inner diameter without insulation	Ø500	Ø550	Ø600	Ø750	Ø850
g1	Additional connection	1120	1330	1285	1430	1480
s1	Sensor pocket	540	325	330	420	420
s2	Sensor pocket	845	980	950	1060	1110
s3	Sensor pocket	1315	1590	1590	1645	1655
s4	Sensor pocket	1415	1690	1690	1745	1755
e	Flange centre point	700	780	740	810	860

All threaded connections are BSPT female unless otherwise stated. Coil connections BSPT male. All dimensions in mm.