Hot Water Cylinders.

Specification guide

remeha

What's inside.

Remeha, the expert choice.

Complete commercial solutions from the experts in sustainable heating and hot water.

Put Remeha hot water cylinders at the heart of your commercial heating solution. Our water storage tanks have quick heat recovery times, so you're sure to find one that meets your needs, whether your project is a new specification or a building refurbishment.

Options include high grade Duplex stainless steel cylinders as well as glass lined steel cylinders and mild steel buffer vessels. With a selection of accessories and unvented systems kits, all are designed to the latest standards including KIWA certification or meet G3 Building Regulations.*

We're the experts in heating and hot water solutions, built with sustainable technology. Our teams will guide you through the right choices for your commercial heating and hot water project. So from specification to design, through to supply and installation, our customer service and product support is second to none.

Hot Water Cylinders Model Range.

The Remeha hot water cylinder range consists of 72 different cylinders to choose from Your Area Sales Manager will be able to advise on the best cylinder for your project.

DHW* Cylinders				LTHW† Buffer Vessels
RC Stainless Steel Single and Twin Coil Cylinders	Remtank Stainless Steel Single and Twin Coil Cylinders	Remtank Single Coil Hot Water Cylinders	Flexistor	Buffer Vessels
				
Duplex stainless steel	Stainless steel 316	Stainless steel 316	Duplex stainless steel	Mild steel
400 > 2500 Litre Capacity	300 > 1000 Litre Capacity	125 > 170 Litre Capacity	400 > 2500 Litre Capacity	200 > 5000 Litre Capacity
6 or 10 bar maximum pressure options	8 bar maximum pressure	7 bar maximum pressure	6 or 10 bar maximum pressure options	3 or 6 bar maximum pressure options
Single or Twin Coil	Single or Twin Coil	Single Coil only	Comes with unvented system kit. Accessories available	
Comes with unvented system kit. Accessories available	Unvented system kit available	Comes with unvented system kit. Accessories available		

* Dependent on model
** DHW = potable Domestic Hot Water
† LTHW = Low Temperature Hot Water for heating systems

Remeha RC Cylinders.

These indirect water heaters provide large scale, commercial capacity domestic hot water where there's a need for lots of hot water quickly, without drop in performance. The fast flow rates are delivered by a choice of single or twin coils and a range of optional immersion heaters is available to provide boost and backup.

Constructed from Duplex stainless steel, offering outstanding strength and corrosion resistance. Your design options are maximised by having the choice with all models of either 6 bar or 10 bar operating pressure. This makes them perfect for applications where there is high continuous or substantial demand such as hotels, leisure centres and shopping malls as well as high buildings such as office blocks. With the choice of single or twin coil options across all models, secondary energy sources such as heat pumps and other LZC technologies can also be considered.

They meet all British environmental legislation and regulation standards as well as EU Directives. This includes the recommendations of HSE Document L8 relating to Legionella Pneumophilia, with the cylinders containing a minimum of two inspection ports (three on larger models) and three optional destratification loop kits to circulate the hot water within the tank and enable pasteurisation.

Why choose duplex stainless steel?

Remeha cylinders are manufactured from Duplex 2205 stainless steel to EN 1.4462, ASTM S3 2205/S31803 (with PRE value of 35). This Ferritic-Austenitic steel combines high strength, excellent corrosion resistance and stress corrosion cracking resistance and pitting resistance.

This marine-grade Duplex stainless steel gives a low thermal expansion and high chloride resistance. It has a great strength-to-weight ratio which allows the finished cylinder to be substantially lighter than other materials. The Duplex metallurgical structure is carefully balanced to provide dual austenitic and ferritic phases, which provides the high strength level and acts as an effective impediment to stress corrosion and cracking.

2205 is a high specification grade of Duplex stainless steel, making it especially suitable for commercial water cylinders. 2205 has approximately twice the proof strength of standard 304 and 316 types of stainless steel, meaning it is well equipped to deal with the system pressures involved in many of today's buildings. The pitting and crevice corrosion resistance in potable water is greater than that of 316 stainless and other leaner alloyed Duplex stainless steel often used in water cylinders. End users can therefore be assured of a long, trouble-free service life.

*Depending on incoming cold water temperature and primary flow conditions.

RC Cylinders
single coil technical information.

	400	500	800	1000	1250	1450	2000	2500
RC Cylinders – single coil								
Storage volume (litres)	384	482	776	961	1206	1399	1930	2482
Maximum working pressure (bar)*	6	6	6	6	6	6	6	6
ERP data								
Standing loss (kW/24h)	1.72	2.14	2.74	3.33	3.6	4.17	4.3	4.5
Standing loss (W)	71.7	89.2	114.2	138.8	150.0	173.8	179.2	187.5
ErP energy class	C	C	N/A	N/A	N/A	N/A	N/A	N/A
Connections								
Primary flow connection (inch/BSP)	1"	1"	1¼"	1¼"	1½"	1½"	1½"	1½"
Primary return connection (inch/BSP)	1"	1"	1¼"	1¼"	1½"	1½"	1½"	1½"
Secondary return (inch/BSP)	1"	1"	1"	1½"	1"	1"	1"	1"
Inlet connection (inch/BSP)	1"	1"	1½"	1½"	1½"	1½"	2"	2"
Outlet connection (inch/BSP)	1"	1"	1½"	1½"	1½"	1½"	2"	2"
Drain connection (inch/BSP)	1"	1"	1"	1"	1"	1"	1"	1"
Cylinder materials								
Primary coil rate at 15 litres/min (kW)	29.4	28.7	31.3	32.9	35	30.1	40.2	37.5
Primary coil rate at 30 litres/min (kW)	43.6	41.8	52.7	51.4	63.6	61.2	98.4	86.4
Primary coil rate at 60 litres/min (kW)	59.7	55.8	76.9	76.5	97.9	91.7	132.2	126.4
Heat up time at 15 litres/min (kW)	43	55	80	91	112	130	180	225
Heat up time at 30 litres/min (kW)	29	38	48	59	62	72	99	124
Heat up time at 60 litres/min (kW)	21	28	32	39	40	50	48	62
Lower coil surface area m^2 (kW)	2	2	3	3	5	5	7.5	7.5
Upper coil surface area m^2 (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Maximum pressure In coil at max (bar)	3	3	3	3	3	3	3	3
Model dimensions								
Weight full (kg)	501	610	964	1188	1569	1872	2445	2950
Weight empty (kg)	105	110	164	188	319	322	445	450
Insulation thickness (mm)	100	100	100	100	100	100	100	100
Height of cylinder (mm)	1500	1800	1906	2301	1937	2253	2011	2416
Diameter of cylinder (mm)	872	872	1024	1024	1224	1224	1476	1476
Service clearance								
Front (mm)	250	250	250	250	250	250	250	250
Sides (mm)	250	250	250	250	250	250	250	250
Above (mm)	300	300	300	300	300	300	300	300
Shipping								
Width (mm)	980	980	1120	1160	1300	1360	1600	1600
Depth (mm)	1180	1180	1220	2450	1310	2420	2190	2500
Height (mm)	1625	1920	2025	1250	2110	1470	1700	1700
Weight (kg)	136	137	202	258	361	485	497	720

*10 bar options are available. Please contact your Area Sales Manager for more information.

Note: 1. Indirect cylinders tested in conformance with BS EN 12897:2016
2. Indirect heat up times based on a 45°C temperature rise, based on a primary flow temperature of 80°C ± 2°C.

RC Cylinders single coil unvented system kits and immersions.

RC Cylinders single coil unvented system kits

RC Cylinders – single coil	400/500	800	1000	1250	1450	2000/2500
Expansion vessel size (litres)	60	100	100	150	200	300
Expansion vessel mounting kit	Floor mounted	Floor mounted	Floor mounted	Floor mounted	Floor mounted	Floor mounted
Expansion vessel weight (kg)	12	17	24	24	38.5	41
Pressure reducing valve	1" integrated inlet control valve	1¼"	1¼"	1½"	1½"	2"
Pressure relief valve	1" integrated inlet control valve	1" x 1¼"	1" x 1¼"	1" x 1¼"	1" x 1¼"	1¼" x 1½"
Single check valve	1" integrated inlet control valve	1¼"	1¼"	1½"	1½"	2"
Isolating valve	1"	1¼"	1¼"	1½"	1½"	2"
Tundish 1¼" inlet, 1½" outlet	•	•	•	•	•	•
Drain valve	1"	1"	1"	1"	1"	1"
2-Port motorised valve	1¼"	1¼"	1¼"	1½"	1½"	1½"

Note:
1. 1" integrated control valve is not assembled
2. Thermostat and thermal cut-out combined
3. All connections BSP female
4. Temperature and pressure relief valve is factory fitted into the cylinder and not part of the unvented system kit
   T&P valve is set at 90°C / 1 MPa (10bar) or 90°C / 1.5MPa (15bar) depending on model
   Connection size 1¼" BSP to cylinder, 28mm compression fitting out

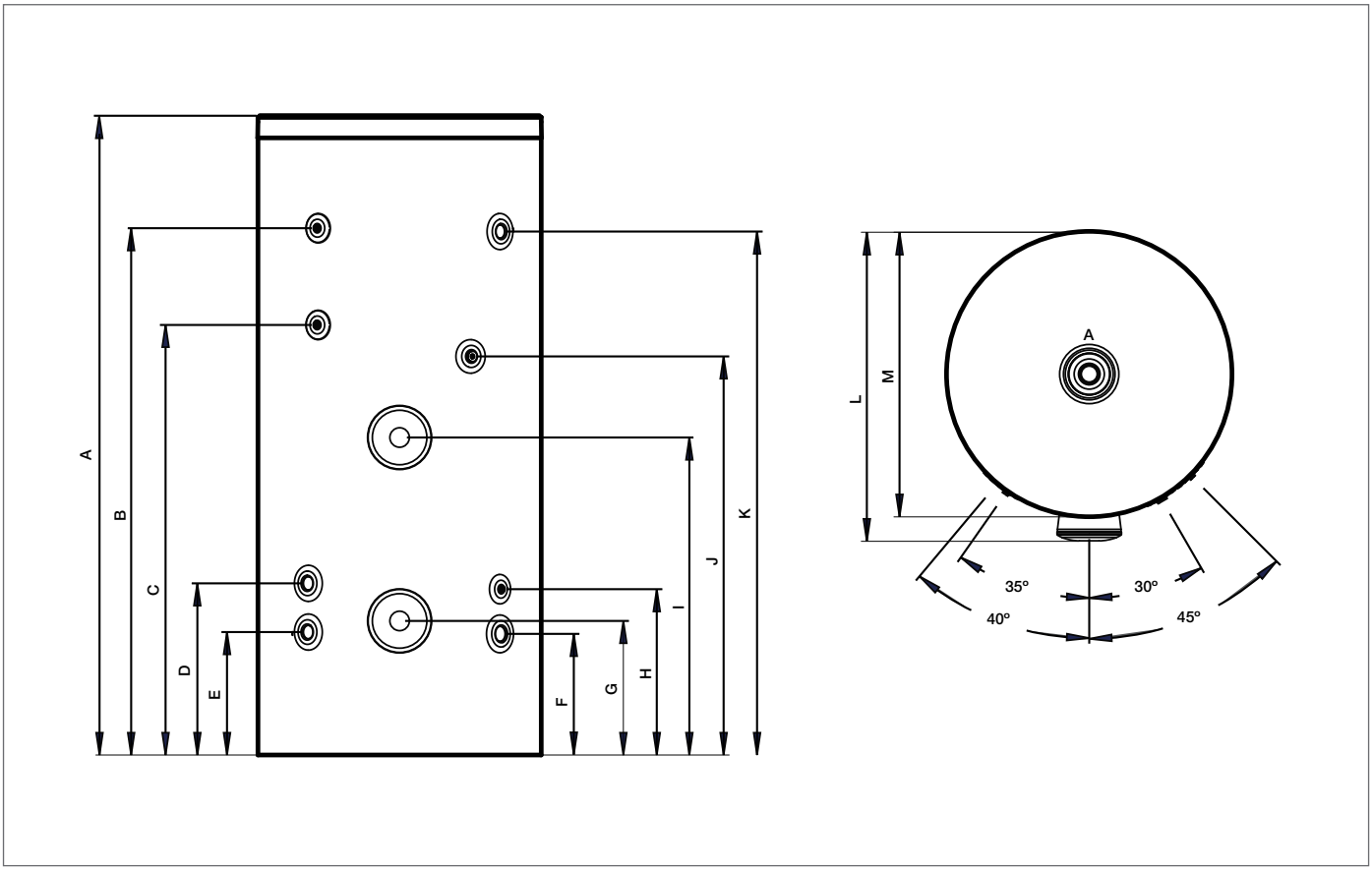
RC Cylinders single coil immersions

		Cylinder capacity (litres)							
Element	**Location**	**400**	**500**	**800**	**1000**	**1250**	**1450**	**2000**	**2500**
6kW	Upper flange	•	•	•	•	•	•	•	•
9kW	Upper flange	•	•	•	•	•	•	•	•
12kW	Upper flange	•	•	•	•	•	•	•	•
18kW	Upper flange	•	•	•	•	•	•	•	•
24kW	Upper flange	•	•	•	•	•	•	•	•
30kW	Upper flange	•	•	•	•	•	•	•	•
36kW	Upper flange	•	•	•	•	•	•	•	•
45kW	Upper flange		•	•	•	•	•	•	•
54kW	Upper flange					•	•	•	•

Note:
1 Immersions are not factory fitted
2. The lower flange for inspection purpose

RC Cylinders single coil
dimensions and connections.

RC Cylinders single coil dimensions and connections



	Description	Connection	400	500	Connection	800	1000	Connection	1250	1450	Connection	2000	2500
A	Height to hot water connection, flush with top of cylinder	2" BSP	1500	1800	2" BSP	1906	2301	2" BSP	1937	2253	2" BSP	2011	2416
B	Sensor pocket	NA	NA	NA	½" BSP	1499	1897	½" BSP	1411	1719	½" BSP	1422	1827
C	Sensor pocket	½" BSP	669	669	½" BSP	1217	1467	½" BSP	1211	1211	½" BSP	1260	1510
D	Primary flow port	1" BSP	499	499	1¼" BSP	618	618	1½" BSP	707	707	1½" BSP	779	779
E	Return flow port	1" BSP	324	324	1¼" BSP	443	443	1½" BSP	527	527	1½" BSP	599	599
F	Cold water inlet port	1" BSP	309	309	1½" BSP	437	437	1½" BSP	526	526	2" BSP	606	606
G	Lower flange	NA	NA	NA	NA	487	487	NA	526	526	NA	575	575
H	Sensor pocket	NA	NA	NA	½" BSP	657	657	½" BSP	751	751	½" BSP	815	815
I	Upper flange	NA	774	859	NA	952	952	NA	966	966	NA	1004	1004
J	Secondary return port	1" BSP	869	1135	1" BSP	1187	1437	1" BSP	1176	1376	1" BSP	1225	1475
K	T&P valve	¾" BSP	1119	1419	1¼" BSP	1502	1897	1¼" BSP	1411	1686	1¼" BSP	1425	1815
L	Overall depth	NA	956	956	NA	1107	1107	NA	1308	1308	NA	1560	1560
M	Diameter of cylinder	NA	872	872	NA	1024	1024	NA	1224	1224	NA	1476	1476

RC Cylinders twin coil
technical information.

	400	500	800	1000	1250	1450	2000	2500
RC Cylinders – twin coil								
Storage volume (litres)	384	482	776	961	1206	1399	1930	2482
Maximum working pressure (bar)*	6	6	6	6	6	6	6	6
ERP data								
Standing loss (kW/24h)	1.72	2.14	2.74	3.33	3.6	4.17	4.3	4.5
Standing loss (W)	71.7	89.2	114.2	138.8	150.0	173.8	179.2	187.5
ErP energy class	C	C	N/A	N/A	N/A	N/A	N/A	N/A
Connections								
Primary flow connection (inch/BSP)	1"	1"	1¼"	1¼"	1½"	1½"	1½"	1½"
Primary return connection (inch/BSP)	1"	1"	1¼"	1¼"	1½"	1½"	1½"	1½"
Auxiliary coil flow connection (inch/BSP)	1"	1"	1¼"	1¼"	1½"	1½"	1½"	1½"
Auxiliary coil return connection (inch/BSP)	1"	1"	1¼"	1¼"	1½"	1½"	1½"	1½"
Secondary return (inch/BSP)	1"	1"	1"	1½"	1"	1"	1"	1"
Inlet connection (inch/BSP)	1"	1"	1½"	1½"	1½"	1½"	2"	2"
Outlet connection (inch/BSP)	1"	1"	1½"	1½"	1½"	1½"	2"	2"
Drain connection (inch/BSP)	1"	1"	1"	1"	1"	1"	1"	1"
Cylinder materials								
Primary coil rate at 15 litres/min (kW)	29.4	28.7	31.3	32.9	35	30.1	40.2	37.5
Primary coil rate at 30 litres/min (kW)	43.6	41.8	52.7	51.4	63.6	61.2	98.4	86.4
Primary coil rate at 60 litres/min (kW)	59.7	55.8	76.9	76.5	97.9	91.7	132.2	126.4
Primary coil pressure drop at 15 litres/min (kPa)	2	2	1	1	1	1	1	1
Primary coil pressure drop at 30 litres/min (kPa)	4	4	8	8	6	6	7	7
Primary coil pressure drop at 60 litres/min (kPa)	32	32	44	44	25	25	30	30
Auxiliary coil rate at 15 litres/min (kW)	28.4	27.2	30.5	33.2	48.6	46.4	97.9	91.7
Primary coil heat up time at 15 litres/min (mins)	43	55	80	91	112	130	180	225
Primary coil heat up time at 30 litres/min (mins)	29	38	48	59	62	72	99	124
Primary coil heat up time at 60 litres/min (mins)	21	28	32	39	40	50	48	62
Primary coil surface area (m^2)	2	2	3	3	5	5	7.5	7.5
Auxiliary coil surface area (m^2)	1	1	1.5	1.5	2.5	2.5	5	5
Maximum pressure in coil at max (bar)	3	3	3	3	3	3	3	3
Model dimensions								
Weight full (kg)	505	610	964	1188	1569	1872	2445	2950
Weight empty (kg)	105	110	164	188	319	322	445	450
Insulation thickness (mm)	100	100	100	100	100	100	100	100
Height of cylinder (mm)	1500	1800	1906	2301	1937	2253	2011	2416
Diameter of cylinder (mm)	872	872	1024	1024	1224	1224	1476	1476
Service clearance								
Front (mm)	250	250	250	250	250	250	250	250
Sides (mm)	250	250	250	250	250	250	250	250
Above (mm)	300	300	300	300	300	300	300	300
Shipping								
Width (mm)	980	980	1120	1160	1300	1360	1600	1600
Depth (mm)	1180	1180	1220	2450	1310	2420	2190	2500
Height (mm)	1625	1920	2025	1250	2110	1470	1700	1700
Weight (kg)	141	143	209	265	375	499	517	741

*10 bar options are available. Please contact your Area Sales Manager for more information.

RC Cylinders twin coil
unvented system kits and immersions.

RC Cylinders twin coil unvented system kits

RC Cylinders – twin coil	400/500	800	1000	1250	1450	2000/2500
Expansion vessel size (litres)	60	100	100	150	200	300
Expansion vessel mounting kit	Floor mounted	Floor mounted	Floor mounted	Floor mounted	Floor mounted	Floor mounted
Expansion vessel weight (kg)	12	17	24	24	38.5	41
Pressure reducing valve	1" integrated inlet control valve	1¼"	1¼"	1½"	1½"	2"
Pressure relief valve	1" integrated inlet control valve	1" x 1¼"	1" x 1¼"	1" x 1¼"	1" x 1¼"	1¼" x 1½"
Single check valve	1" integrated inlet control valve	1¼"	1¼"	1½"	1½"	2”
Isolating valve	1"	1¼"	1¼”	1½"	1½"	2"
Tundish 1¼" inlet, 1½" outlet	•	•	•	•	•	•
Drain valve	1"	1"	1"	1"	1"	1"
2-Port motorised valve	1¼"	1¼"	1¼"	1½"	1½"	1½"

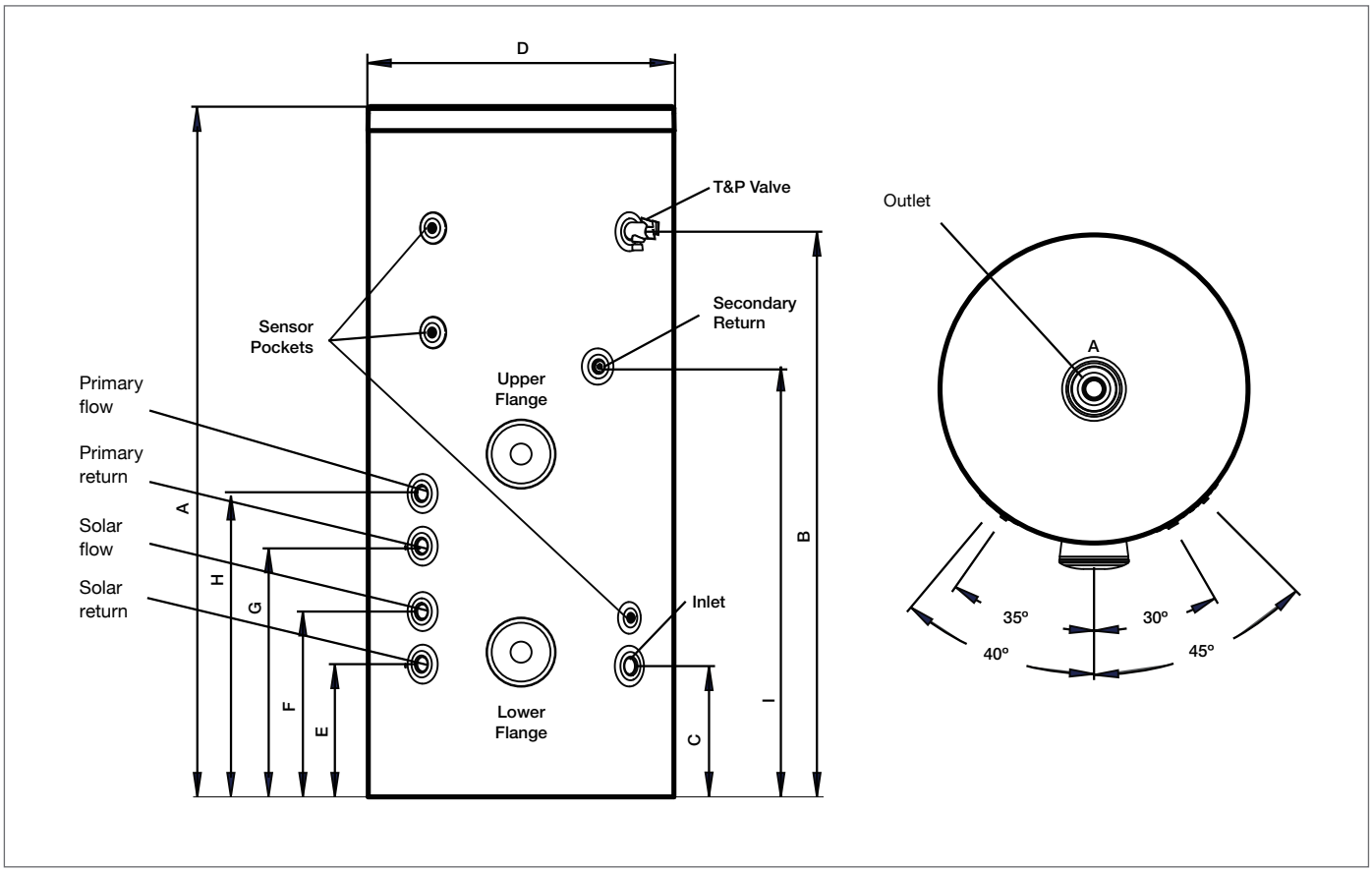
Note:
1. 1" integrated control valve is not assembled
2. Thermostat and thermal cut-out combined
3. All connections BSP female
4. Temperature and pressure relief valve is factory fitted into the cylinder and not part of the unvented system kit
   T&P valve is set at 90°C / 1 MPa (10bar) or 90°C / 1.5MPa (15bar) depending on model
   Connection size 1¼" BSP to cylinder, 28mm compression fitting out

RC Cylinders twin coil immersions

		Cylinder capacity (litres)							
Element	**Location**	**400**	**500**	**800**	**1000**	**1250**	**1450**	**2000**	**2500**
6kW	Upper flange	•	•	•	•	•	•	•	•
9kW	Upper flange	•	•	•	•	•	•	•	•
12kW	Upper flange	•	•	•	•	•	•	•	•
18kW	Upper flange	•	•	•	•	•	•	•	•
24kW	Upper flange	•	•	•	•	•	•	•	•
30kW	Upper flange			•	•	•	•	•	•
36kW	Upper flange			•	•	•	•	•	•
45kW	Upper flange			•	•	•	•	•	•
54kW	Upper flange							•	•

Note:
1. Immersions are not factory fitted
2. The lower flange is for inspection purpose
3. Cylinders tested in conformance with BS EN 12897:2016
4. Heat up time from cold through 45°C based on a primary flow temperature of 80°C ± 2°C

RC Cylinders twin coil
dimensions and connections.



	Description	Connection	400	500	Connection	800	1000	Connection	1250	1450	Connection	2000	2500
A	Height to hot water connection, flush with top of cylinder	2" BSP	1651	1804	2" BSP	1906	2301	2" BSP	1936	2253	2" BSP	2014	2419
B	T&P valve	¾"	1261	1413	1¼" BSP	1487	1882	1¼" BSP	1408	1731	1¼" BSP	1410	1815
C	Cold water inlet port	1¼"	396	396	1½"	437	437	1½"	523	527	2"	606	606
D	Diameter of cylinder	NA	872	872	NA	1024	1024	NA	1224	1224	NA	1476	1476
E	Lower return flow port	1¼"	415	415	1½"	443	443	1½"	527	527	1½"	599	599
F	Secondary flow port	1¼"	590	590	1½"	618	618	1½"	707	707	1½"	779	779
G	Upper return flow port	1¼"	765	794	1½"	793	793	1½"	887	887	1½"	989	989
H	Upper flow port	1¼"	965	994	1½"	993	993	1½"	1117	1117	1½"	1229	1229
I	Secondary return flow port	1"	1005	1005	1"	1183	1433	1"	1408	1731	1"	1410	1815

Note:
1 All connection BSP threads

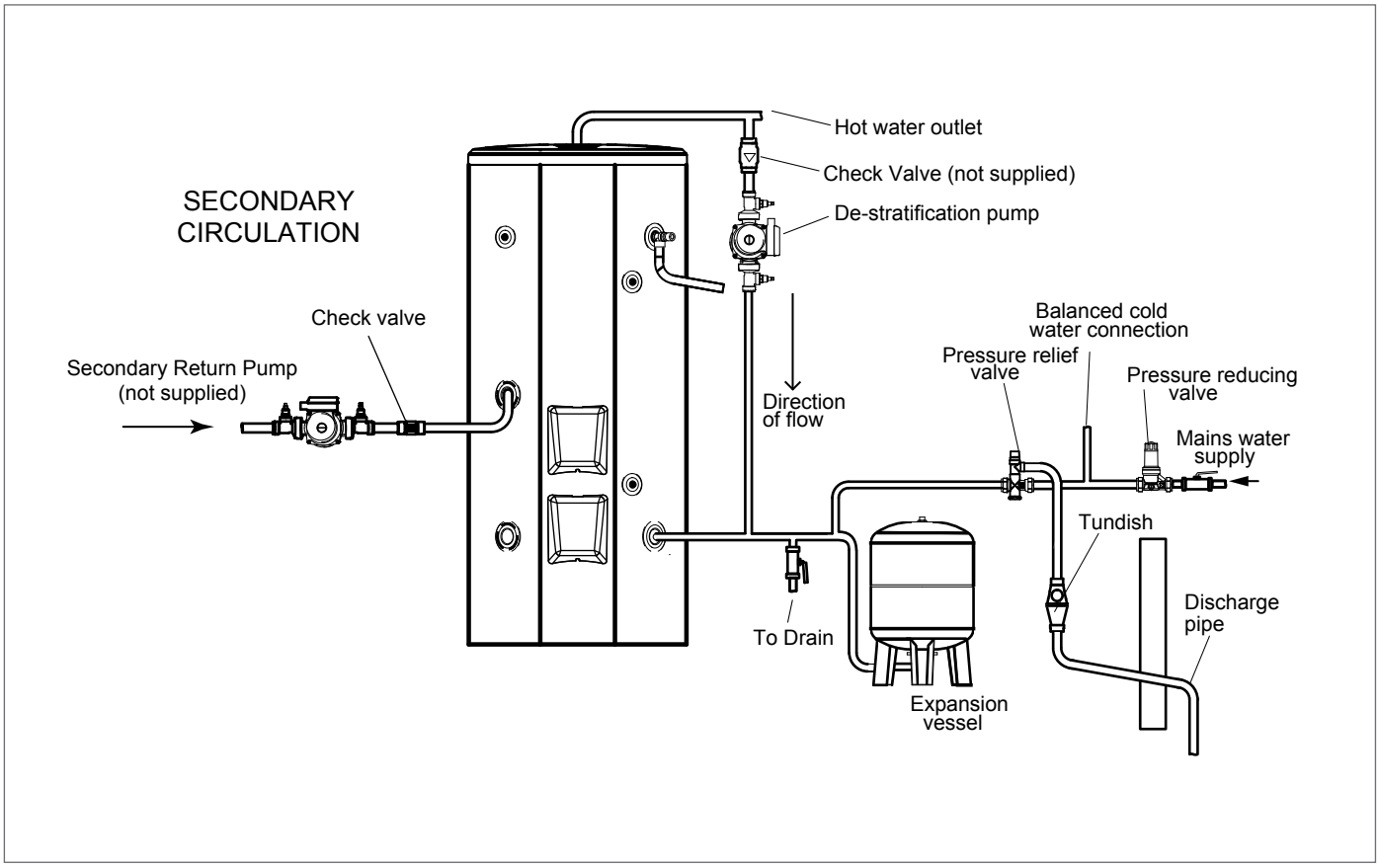
RC Cylinders
accessories.

Remeha offer a range of accessories for these cylinders, including immersion heaters and destratification pump kits.

Accessory	Part Number
6kW element assembly, single-phase	94110301
9kW element assembly, single-phase	94110302
12kW element assembly, three-phase	94110303
18kW element assembly, three-phase	94110304
24kW element assembly, three-phase	94110305
30kW element assembly, three-phase	94110306
36kW element assembly, three-phase	94110307
45kW element assembly, three-phase	94110308
54kW element assembly, three-phase	94110309
Destratification pump kit 400-500 litres	95970140
Destratification pump kit 800-1450 litres	95970157
Destratification pump kit 2000-2500 litres	95970158
Temperature gauge	95970141
Pressure gauge	95970142

Note:
Unvented system kits are provided as standard.

RC Cylinders
typical installation schematic.



The unvented system kit which is included as standard is made up of the following, dependent on model.

- Expansion vessel
- Combination valve including pressure reducing valve, pressure relief valve and check value
- Tundish
- 2 port zone valve

The optional destratification pump kit provides an even temperature throughout the cylinder by circulating water within the cylinder to ensure even mixing.

This is especially of benefit where the installation design incorporates a single pipe domestic hot water distribution system. The performance of the cylinder and system can be seen to increase and with an even temperature throughout, this reduces the risk of legionella forming.

Remtank stainless steel cylinders

Remtank stainless steel cylinders are a range of domestic hot water cylinders with capacities from 300 up to 1000 litres, and with single or twin coil options across all models, secondary energy sources such as heat pumps and other low zero carbon technologies can also be considered, offering increased application flexibility.

Remtank cylinders are made from stainless steel 316 so require no need for sacrificial anodes inside, cutting down on maintenance. With a working pressure of 8 bar, the cylinders are suitable for a wide variety of applications. Temperature and Pressure valves are factory fitted and, in conjunction with the control panel and sensors, provide the three levels of safety needed to meet G3 Building Regulations.

The 800 and 1000 litre versions are provided with a lifting bolt for easier manipulation and come in a crate that can be transported on its side as well.

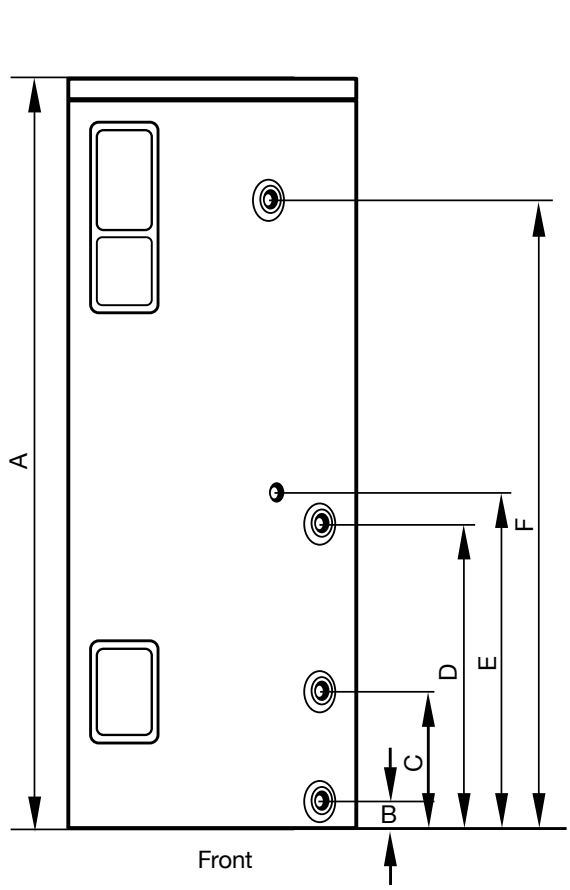
The cylinders are approved as a package with the unvented systems kits and so should be purchased together.

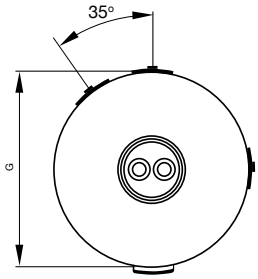
Remtank stainless steel cylinders single coil technical information.

	300	500	800	1000
Remtank – Single Coil				
Storage volume (litres)	291	484	769	955
Maximum working pressure (bar)	6	6	6	6
ERP Data				
Standing loss (kW/24h)	1.78	2.42	2.6	3.38
Standing loss (W)	74.2	100.8	108.3	140.8
ErP energy class	C	C	N/A	N/A
Connections				
Primary coil flow connection (inch/BSP)	1"	1"	1"	1"
Primary coil return connection (inch/BSP)	1"	1"	1"	1"
Auxiliary coil flow connection (inch/BSP)	N/A	N/A	N/A	N/A
Auxiliary coil return connection (inch/BSP)	N/A	N/A	N/A	N/A
Secondary return (inch/BSP)	1"	1"	1½"	1½"
Inlet connection (inch/BSP)	1"	1"	1¼"	1¼"
Outlet connection (inch/BSP)	1"	1"	1½"	1½"
Drain connection (inch/BSP)	1"	1"	1¼"	1¼"
Cylinder materials				
Primary coil flow rate (litres/min)	100	100	133	133
Primary coil rating (kW)	49	61	83	115
Primary coil pressure drop (kPa)	20	20	60	60
Auxiliary coil rate at 15 litres/min (kW)	N/A	N/A	N/A	N/A
Primary coil heat up time (mins)	46	64	69	84
Primary coil surface area (m^2)	1.4	1.8	2.7	3.3
Auxiliary coil surface area (m^2)	N/A	N/A	N/A	N/A
Maximum pressure in coil at max (bar)	25	25	25	25
Model dimensions				
Weight full (kg)	376	601	933	1144
Weight empty (kg)	85	117	164	189
Insulation thickness (mm)	60	60	80	80
Height of cylinder (mm)	1685	1690	1840	2250
Diameter of cylinder (mm)	620	770	950	950
Service clearance				
Front (mm)	600	600	600	600
Sides (mm)	250	250	250	250
Above (mm)	300	300	300	300
Shipping				
Width (mm)	680	820	1000	1000
Depth (mm)	680	820	1030	1030
Height (mm)	1940	1920	2040	2460
Weight (kg)	95	127	184	214

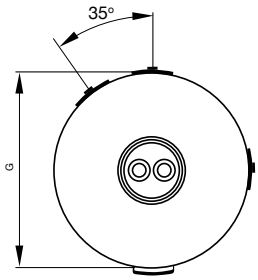
Note:
The T&P valve is factory fitted in the cylinder.

Remtank stainless steel cylinders
single coil dimensions and connections.

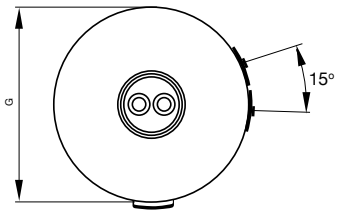




Plan 300 litres



Plan 500 litres



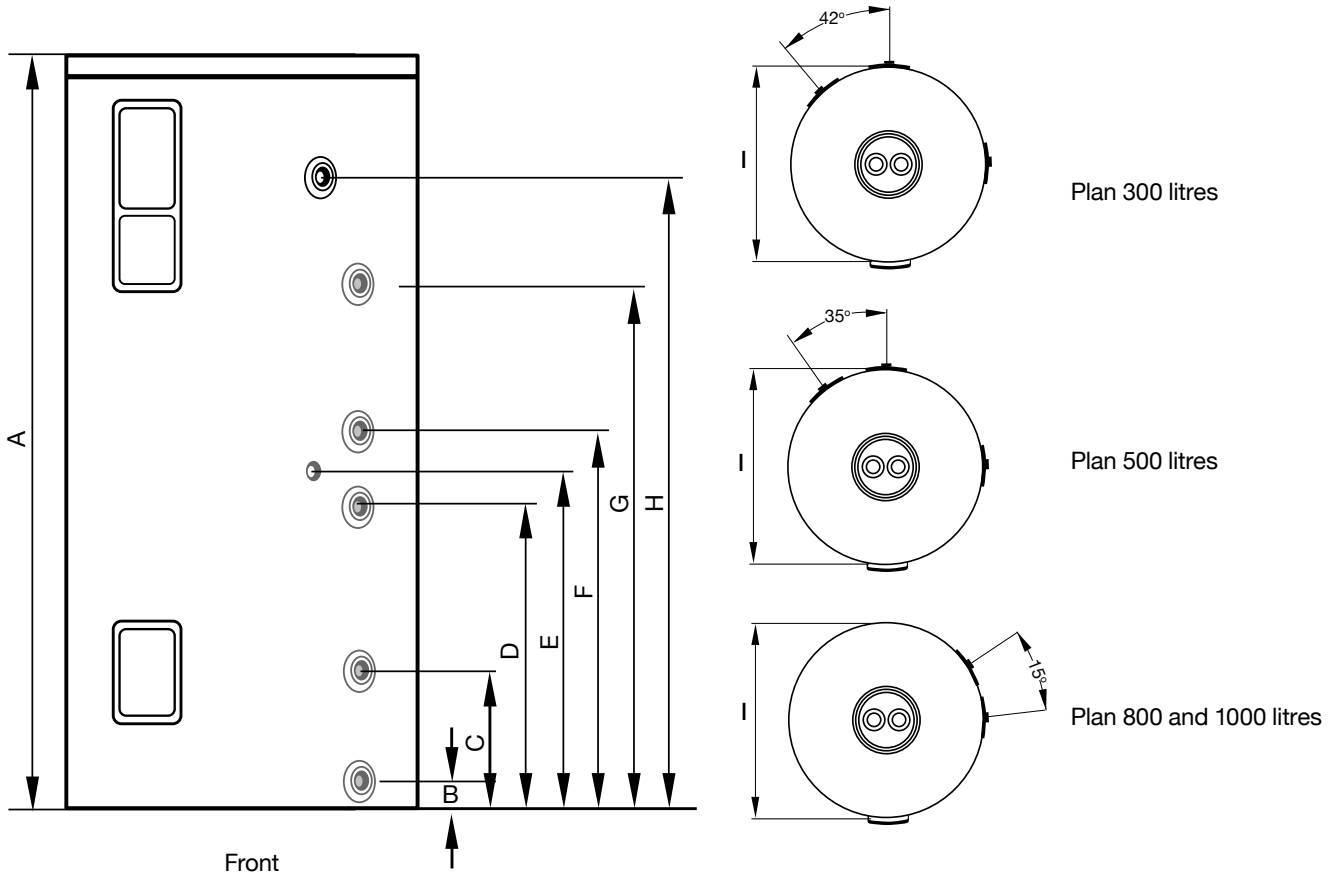
Plan 800 and 1000 litres

Single coil – connections positions		300 Litres	500 Litres	800 Litres	1000 Litres
A	Cylinder height (mm)	1685	1690	1840	2250
B	Drain valve connection (mm)	70	70	100	100
C	Primary connection (mm)	346	380	382	382
D	Primary connection (mm)	701	780	1289	1439
E	Side connection (mm)	760	855	982	1157
F	T&P valve (mm)	1415	1371	1472	1882
G	Width (mm)	620	770	950	950

Remtank stainless steel cylinders twin coil
technical information.

	300	500	800	1000
Remtank – Twin Coil				
Storage volume (litres)	291	484	758	945
Maximum working pressure (bar)	6	6	6	6
ERP Data				
Standing loss (kW/24h)	1.78	2.42	2.62	3.38
Standing loss (W)	74.2	100.8	109.2	140.8
ErP energy class	C	C	N/A	N/A
Connections				
Primary coil flow connection (inch/BSP)	1"	1"	1"	1"
Primary coil return connection (inch/BSP)	1"	1"	1"	1"
Auxiliary coil flow connection (inch/BSP)	1”	1”	1”	1”
Auxiliary coil return connection (inch/BSP)	1”	1”	1”	1”
Secondary return (inch/BSP)	1”	1”	1½"	1½"
Inlet connection (inch/BSP)	1"	1"	1¼"	1¼"
Outlet connection (inch/BSP)	1"	1"	1½"	1½"
Drain connection (inch/BSP)	1"	1"	1¼"	1¼"
Cylinder materials				
Primary coil flow rate (litres/min)	100	100	133	133
Primary coil rating (kW)	49	61	83	115
Primary coil pressure drop (kPa)	20	20	60	60
Auxiliary coil flow rate (litres/min)	100	100	100	100
Auxiliary coil rating (kW)	100	100	100	100
Auxiliary coil pressure drop (kPa)	20	20	20	20
Primary coil heat up time (mins)	46	64	69	84
Primary coil surface area (m^2)	1.4	1.8	2.7	3.3
Auxiliary coil surface area (m^2)	1.1	1.3	1.3	1.3
Maximum pressure in coil at max (bar)	25	25	25	25
Model dimensions				
Weight full (kg)	384	610	933	1145
Weight empty (kg)	93	126	175	200
Insulation thickness (mm)	60	60	80	80
Height of cylinder (mm)	1685	1690	1840	2250
Diameter of cylinder (mm)	620	770	1840	2250
Service clearance				
Front (mm)	600	600	600	600
Sides (mm)	250	250	250	250
Above (mm)	300	300	300	300
Shipping				
Width (mm)	680	820	1000	1000
Depth (mm)	680	820	1030	1030
Height (mm)	1940	1920	2040	2460
Weight (kg)	103	136	195	225

Remtank stainless steel cylinders
twin coil dimensions and connections.



	Twin coil – connections positions	300 Litres	500 Litres	800 Litres	1000 Litres
A	Cylinder height (mm)	1685	1690	1840	2250
B	Drain valve connection (mm)	70	70	100	100
C	Primary connection (mm)	346	380	382	382
D	Primary connection (mm)	719	780	907	1057
E	Side connection (mm)	760	855	982	1157
F	Aux primary connection (mm)	831	920	1052	1237
G	Aux primary connection (mm)	1231	1270	1402	1587
H	T&P valve (mm)	1415	1371	1472	1882
I	Width (mm)	620	770	950	950

Note:
Single Coil and Twin Coil
The control panel is equipped with a dual safety and temperature control thermostat.

Remtank stainless steel cylinders
unvented system kits.

Approvals on the cylinders are as unvented systems.
Depending on the model, the unvented systems kit includes:

- Expansion vessel
- Combination valve including pressure reducing valve, pressure relief valve and check value
- Tundish
- 2 port zone valve

T&P valve factory fitted to cylinder.

Unvented system kit	Part number
Unvented system kit for use with 300 litres	7726936
Unvented system kit for use with 500 litres	7726937
Unvented system kit for use with 800 litres	7726938
Unvented system kit for use with 1000 litres	7726939

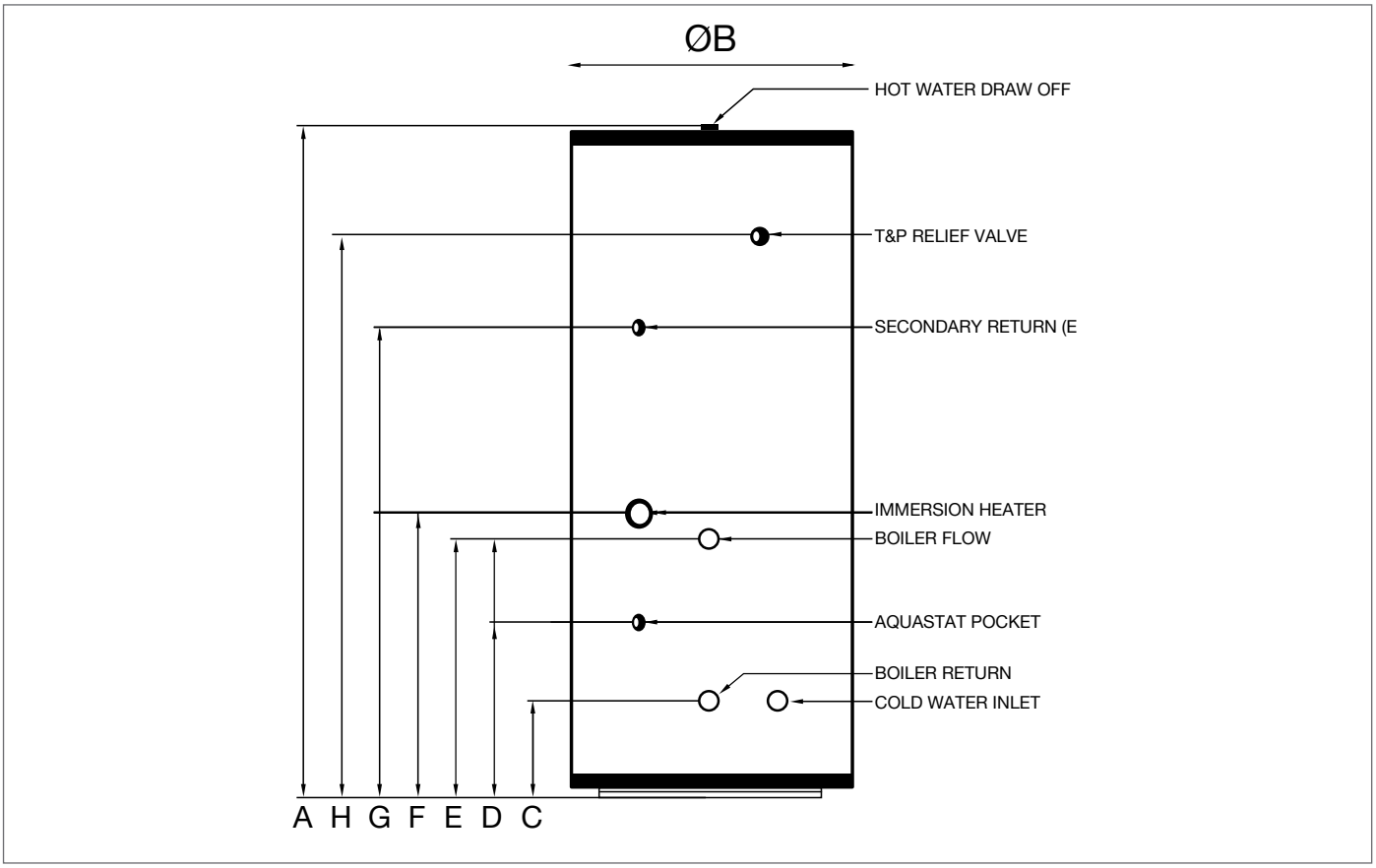
Remtank hot water cylinders

Continuing the domestic hot water storage range, the smaller Remtank cylinders provide the perfect solution for light commercial and industrial applications and also when space is tight and access difficult. With only a single coil, the capacities go from 125 up to 170 litres and all are supplied with the unvented system kit and a 3kW immersion heater as backup. These are also made of Duplex LDX 2101 (EN1.4162), with stainless steel 316 connections for reduced maintenance and increased longevity.

Remtank single coil hot water cylinders
technical information.

	125	150	170
Remtank – Single Coil			
Storage volume (litres)	126	151	169
Maximum working pressure (bar)	6	6	6
ERP Data			
Standing loss (kW/24h)	1.15	1.25	1.49
Standing loss (W)	48.0	52.0	62.0
ErP energy class	B	C	C
Connections			
Primary coil flow connection (mm)	22	22	22
Primary coil return connection (mm)	22	22	22
Auxiliary coil flow connection (mm)	N/A	N/A	N/A
Auxiliary coil return connection (mm)	N/A	N/A	N/A
Secondary return (mm)	½”	½”	½”
Inlet connection (mm)	22	22	22
Outlet connection (mm)	22	22	22
Drain connection (mm)	22	22	22
Cylinder materials			
Primary coil flow rate (litres/min)	22	34	34
Primary coil rating (kW)	21.7	23	22.5
Primary coil pressure drop (mbar)	40	42	42
Auxiliary coil rate at 15 litres/min (kW)	N/A	N/A	N/A
Primary coil heat up time (mins)	21	23	25
Primary coil surface area (m^2)	0.46	0.56	0.56
Auxiliary coil surface area (m^2)	N/A	N/A	N/A
Maximum pressure in coil at max (bar)	16	16	16
Model dimensions			
Weight full (kg)	159	190	216
Weight empty (kg)	36	42	48
Insulation thickness (mm)	50	50	50
Height of cylinder (mm)	1020	1180	1260
Diameter of cylinder (mm)	550	550	550
Service clearance			
Front (mm)	600	600	600
Sides (mm)	250	250	250
Above (mm)	300	300	300
Shipping			
Width (mm)	550	550	550
Depth (mm)	550	550	550
Height (mm)	1120	1280	1360
Weight (kg)	61	67	73

Remtank single coil
dimensions and connections.



	Description	125 Litres	150 Litres	170 Litres
A (mm)	Height to hot water connection	1020	1180	1260
B (mm)	Diameter of cylinder	550	550	550
C (mm)	Return flow port	196	196	196
D (mm)	Sensor pocket	299	341	341
E (mm)	Primary flow port	421	486	486
F (mm)	Flange for immersion heater	471	536	536
G (mm)	Secondary return port	651	786	881
H (mm)	T&P valve	751	911	1031
Heat up time (mins)	Cold water inlet port	21	23	25
	Re-heat time 70% draw off (mins)	14	15	17
	Weight – empty (kg)	36	42	48
	Weight – full (kg)	159	190	216
	Coil surface area (m^2)	0.46	0.56	0.56
	Coil pressure drop (mbar)	40	42	42

Remtank single coil hot water cylinders
technical information.

Capacity	125 Litres	150 Litres	170 Litres
Cold water inlet	22mm		
Hot water draw off	22mm		
Immersion	1¾" F, optional 3kW immersion supplied		
Secondary return	½" F Blank		
T&P relief valve	¾" F		
Primary flow	22mm		
Primary return	22mm		
Primary heating power (kW)	21.7	23	22.5
Primary flow rate to achieve primary heating power	25	34	34
Operating pressure	3 bar		
Maximum design pressure	7 bar		
Max water supply pressure	10 bar		
Expansion vessel charge pressure	2.7 bar		
Maximum operating temperature	90°C		
Pressure reducing valve set to	3 bar		
Expansion reducing valve set to	6 bar		
Pre-charge pressure of the expansion valve	3 bar		
Pressure/temperature relief valve set to	7 bar / 90°C		

Flexistor

Flexistor cylinders are perfect for installations where an independent hot water system is required. The flow and return connections facilitate various heat sources and immersion heaters are available as auxiliary power source backup. Constructed from the same Duplex stainless steel as used in the RC Cylinders, Flexistor offers outstanding strength and corrosion resistance and therefore provides a high quality, low maintenance domestic hot water storage cylinder.

Your design options are maximised by having the choice with all models of either 6 bar or 10 bar operating pressure This makes them perfect for applications where there is high continuous or substantial demand such as hotels, leisure centres and shopping centres as well as high buildings such as office blocks.

Flexistor is supplied with the unvented system kit.

Flexistor
technical information.

	400	500	800	1000	1250	1450	2000	2500
Flexistor direct								
Storage volume (litres)	400	500	800	1000	1250	1450	2000	2500
Maximum working pressure (bar)*	6	6	6	6	6	6	6	6
ERP data								
Standing loss (kW/24h)	1.72	2.14	2.74	3.33	3.6	3.9	4.3	4.5
Standing loss (W)	71.7	89.2	114.2	138.8	150.0	162.5	179.2	187.5
ErP energy class	B	C	N/A	N/A	N/A	N/A	N/A	N/A
Connections								
Primary flow connection (inch/BSP)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Primary return connection (inch/BSP)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Secondary return (inch/BSP)	2"	2"	2"	2"	2"	2"	2"	2"
Inlet connection (inch/BSP)	2"	2"	2"	2"	2"	2"	2"	2"
Outlet connection (inch/BSP)	2"	2"	2"	2"	2"	2"	2"	2"
Drain connection (inch/BSP)	2"	2"	2"	2"	2"	2"	2"	2"
Cylinder materials								
Maximum rating of auxiliary heating elements lower boss (kW)	30	45	45	45	54	54	54	54
Maximum rating of auxiliary heating elements upper boss (kW)	9	12	18	36	30	36	36	36
Auxiliary heat up times based on max elements input (mins)	32	28	40	39	47	51	70	87
Model dimensions								
Weight full (kg)	499	600	960	1180	1547	1754	2415	2921
Weight empty (kg)	99	100	160	180	297	304	415	421
Insulation thickness (mm)	100	100	100	100	100	100	100	100
Height of cylinder (mm)	1535	1804	1906	2301	1936	2253	2014	2419
Diameter of cylinder (mm)	872	872	1024	1024	1224	1224	1470	1470
Service clearance								
Front (mm)	250	250	250	250	250	250	250	250
Sides (mm)	250	250	250	250	250	250	250	250
Above (mm)	300	300	300	300	300	300	300	300
Shipping								
Width (mm)	1174	1174	1320	2400	2076	2418	2176	2581
Depth (mm)	970	970	1118	1150	1322	1308	1560	1560
Height (mm)	1650	1946	2041	1250	1322	1452	1704	1704
Weight (kg)	129	130	191	248	339	464	540	596

*10 bar options are available. Please contact your Area Sales Manager for more information.

Flexistor
unvented system kits and immersions.

Flexistor unvented system kits

Cylinder capacity (litres)	400/500	800	1000	1250/1450	2000/2500
Expansion vessel size (litres)	60	100	150	200	300
Expansion vessel mounting kit	Floor mounted	Floor mounted	Floor mounted	Floor mounted	Floor mounted
Expansion vessel weight (kg)	12	17	24	38.5	41
Pressure reducing valve	1" integrated inlet control valve	1¼"	1¼"	1½"	2"
Pressure relief valve	1" integrated inlet control valve	1" x 1¼"	1" x 1¼"	1" x 1¼"	1¼" x 1½"
Single check valve	1" integrated inlet control valve	1¼"	1¼"	1½"	2"
Isolating valve	2"	2"	2"	2"	2"
Tundish 1¼" inlet, 1½" outlet	•	•	•	•	•
Drain valve	1"	1"	1"	1"	1"
2-Port motorised valve	•	•	•	•	•

Note:
1. 1" integrated control valve is not assembled
2. Thermostat and thermal cut-out combined
3. All connections BSP female
4. Temperature and pressure relief valve is factory fitted into the cylinder and not part of the unvented system kit
   T&P valve is set at 90°C / 1 MPa (10bar) or 90°C / 1.5MPa (15bar) depending on model
   Connection size 1¼" BSP to cylinder, 28mm compression fitting out

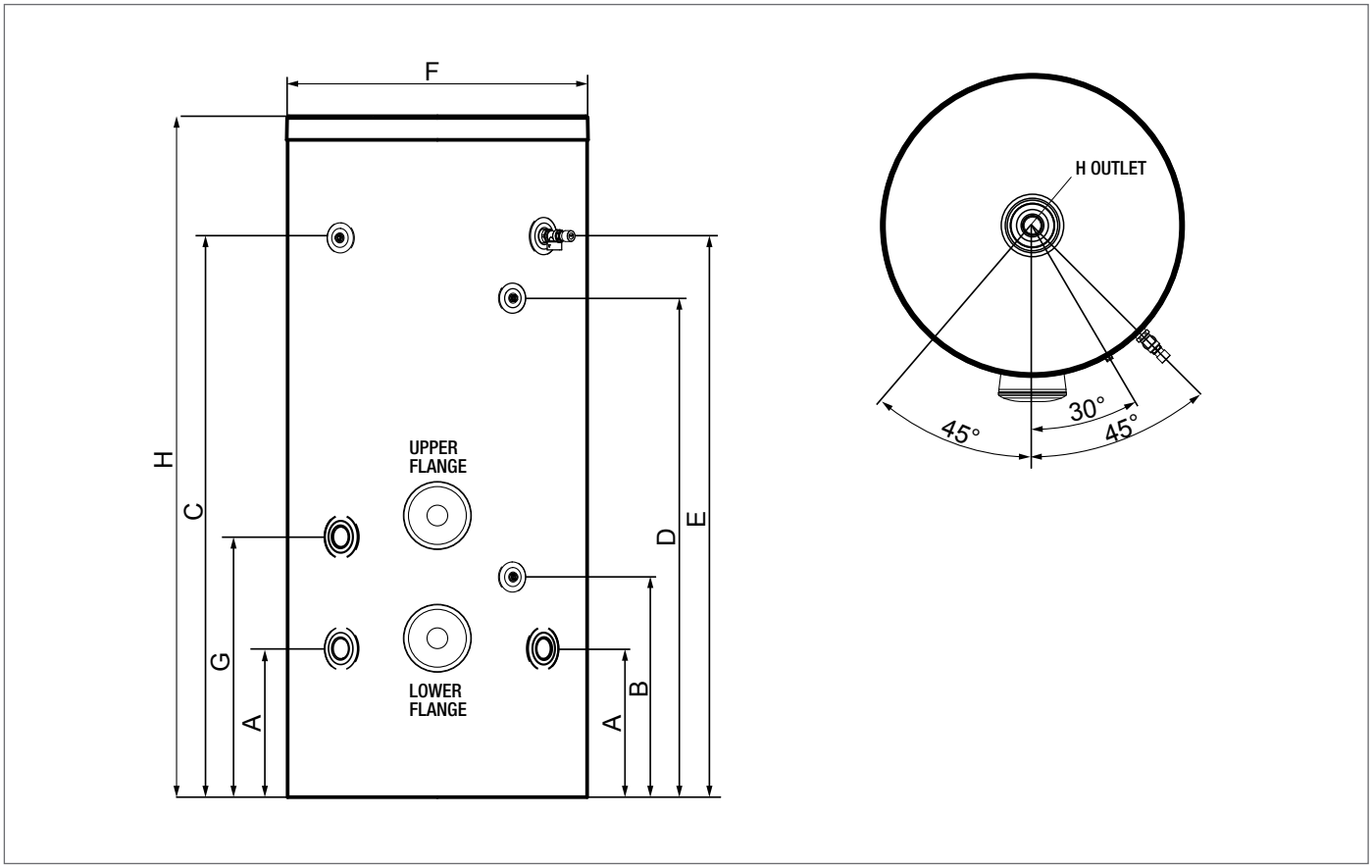
Flexistor immersions

		Cylinder capacity (litres)							
Element	**Location**	**400**	**500**	**800**	**1000**	**1250**	**1450**	**2000**	**2500**
6kW	Upper flange	•	•	•	•	•	•	•	•
	Lower flange	•	•	•	•	•	•	•	•
9kW	Upper flange	•	•	•	•	•	•	•	•
	Lower flange	•	•	•	•	•	•	•	•
12kW	Upper flange		•	•	•	•	•	•	•
	Lower flange	•	•	•	•	•	•	•	•
18kW	Upper flange			•	•	•	•	•	•
	Lower flange	•	•	•	•	•	•	•	•
24kW	Upper flange				•	•	•	•	•
	Lower flange	•	•	•	•	•	•	•	•
30kW	Upper flange				•	•	•	•	•
	Lower flange	•	•	•	•	•	•	•	•
36kW	Upper flange						•	•	•
	Lower flange		•	•	•	•	•	•	•
45kW	Upper flange								
	Lower flange		•	•	•	•	•	•	•
54kW	Upper flange								
	Lower flange					•	•	•	•

Note:
1 Immersions are not factory fitted

Flexistor
dimensions and connections.

Flexistor dimensions and connections



Item	Description	Connection	400	500	Connection	800	1000	Connection	1250	1450	Connection	2000	2500
A (on right)	Cold water inlet port	2" BSP	471	471	2" BSP	502	502	2" BSP	541	541	2" BSP	591	591
A (on right)	Return flow port	2" BSP	471	471	2" BSP	502	502	2" BSP	541	541	2" BSP	591	591
B	Sensor pocket	½" BSP	616	616	½" BSP	744	744	½" BSP	783	783	½" BSP	833	833
C	Sensor pocket	½" BSP	1138	1416	½" BSP	1502	1897	½" BSP	1466	1721	½" BSP	1493	1886
D	Sensor pocket	½" BSP	1001	1191	½" BSP	1263	1687	½" BSP	1326	1536	½" BSP	1376	1626
E	T&P valve	1¼" BSP	1138	1416	1¼" BSP	1502	1897	1¼" BSP	1466	1721	1¼" BSP	1493	1886
F	Diameter of cylinder	NA	872	872	NA	1024	1024	NA	1224	1224	NA	1470	1470
G	Primary flow port	2" BSP	754	754	2" BSP	880	880	2" BSP	1042	1042	2" BSP	1077	1077
H	Height to hot water connection, flush with top of cylinder	2" BSP	1535	1804	2" BSP	1906	2301	2" BSP	1936	2253	2" BSP	2014	2419

Flexistor
accessories.

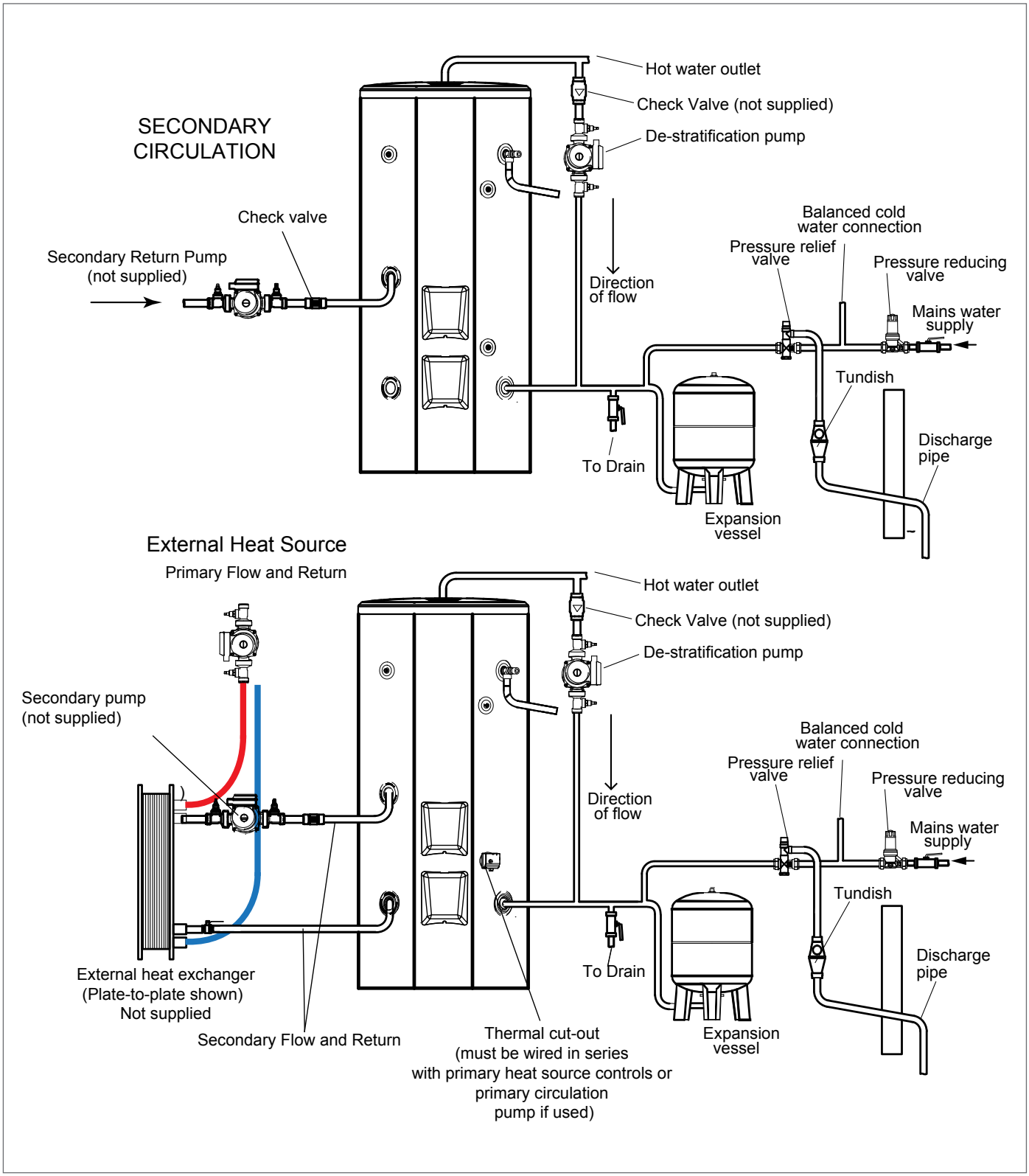
Remeha offer a range of accessories for these cylinders, including immersion heaters and destratification pump kits.

Flexistor accessories

Accessory	Part Number
6kW element assembly, single-phase	94110301
9kW element assembly, single-phase	94110302
12kW element assembly, three-phase	94110303
18kW element assembly, three-phase	94110304
24kW element assembly, three-phase	94110305
30kW element assembly, three-phase	94110306
36kW element assembly, three-phase	94110307
45kW element assembly, three-phase	94110308
54kW element assembly, three-phase	94110309
Destratification pump kit 400-500 litres	95970140
Destratification pump kit 800-1450 litres	95970157
Destratification pump kit 2000-2500 litres	95970158
Temperature gauge	95970141
Pressure gauge	95970142

Note:
Unvented system kits are provided as standard.

Flexistor cylinders
typical installation schematic.



Buffer vessels

When additional storage is needed in the heating circuit, Remeha Buffer Vessels are the answer with a large range of capacities and a choice of working pressures. Intended to be installed in a sealed heating system, there are two combinations of diameter and height for the 1000 litre tank and all up to 5000 litres come with adjustable feet for accurate levelling.

Buffer vessels
technical information.

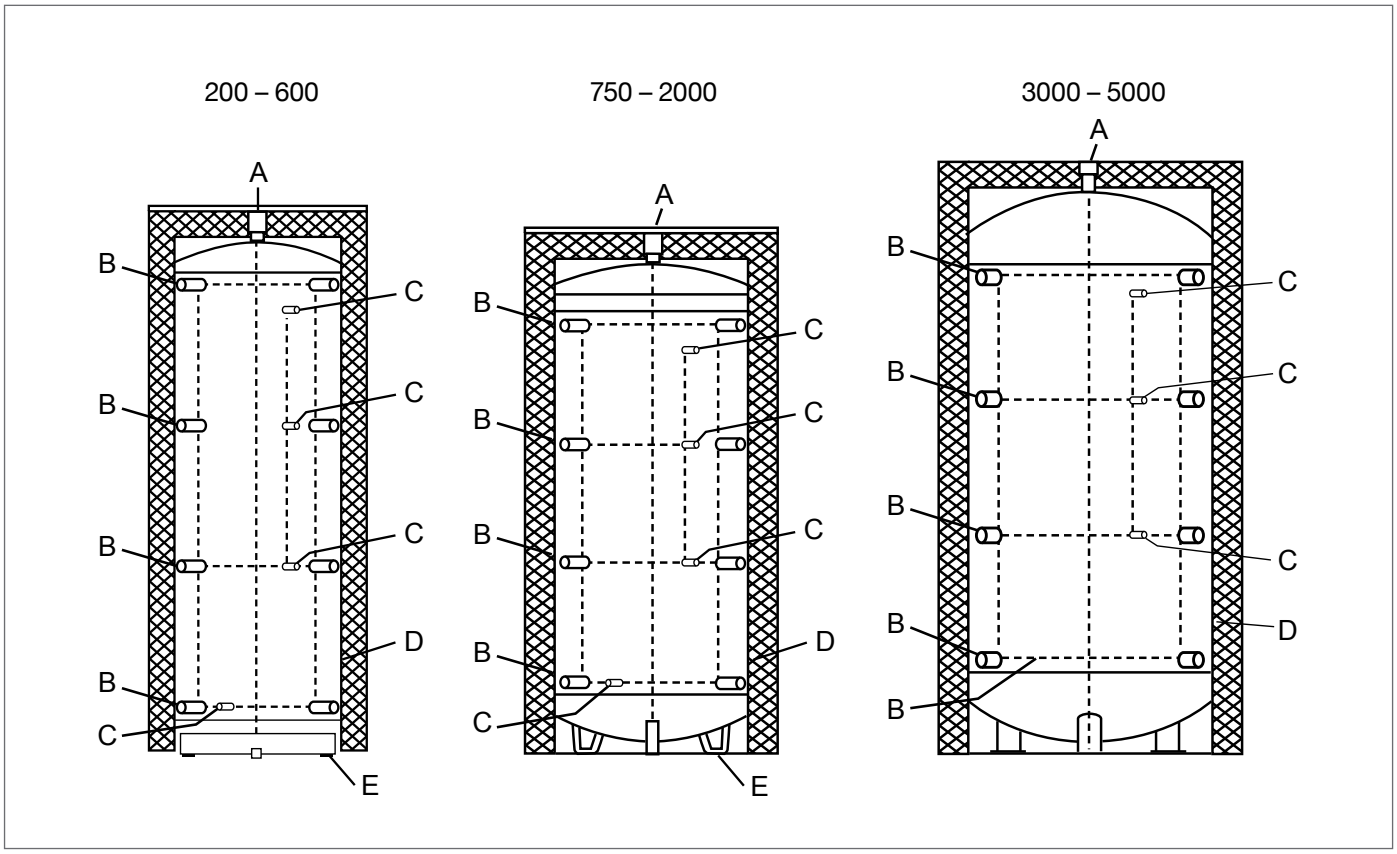
	200	300	500	750	850	1000 (790D)	1000 (850D)	1200	1500	1800	2000	3000	5000
Buffer vessels													
Storage volume (litres)	200	300	500	750	850	1000	1000	1200	1500	1800	2000	3000	5000
Maximum working pressure (°C)	95	95	95	95	95	95	95	95	95	95	95	95	95
Maximum working pressure (bar)*	6	6	6	6	6	6	6	6	6	6	6	6	6
ERP data													
Standing loss (kW/24h)	1.488	1.8	2.208	2.88	3.096	3.408	3.384	3.192	3.888	4.152	4.392	N/A	N/A
Standing loss (W)	62.0	75.0	92.0	120.0	129.0	142.0	141.0	133.0	162.0	173.0	183.0	N/A	N/A
ErP energy class	C	C	C	C	C	C	C	C	C	C	C	N/A	N/A
Connections													
Primary flow connection (inch/BSP)	1¼"	1¼"	1½"	1½"	1½"	1½"	1½"	1½"	2"	2"	2"	2"	2"
Primary return connection (inch/BSP)	1¼"	1¼"	1½"	1½"	1½"	1½"	1½"	1½"	2"	2"	2"	2"	2"
Secondary return (inch/BSP)	1¼"	1¼"	1½"	1½"	1½"	1½"	1½"	1½"	2"	2"	2"	2"	2"
Inlet connection (inch/BSP)	1¼"	1¼"	1½"	1½"	1½"	1½"	1½"	1½"	2"	2"	2"	2"	2"
Outlet connection (inch/BSP)	1¼"	1¼"	1½"	1½"	1½"	1½"	1½"	1½"	2"	2"	2"	2"	2"
Drain connection (inch/BSP)	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"
Model dimensions													
Weight full (kg)	247	366	580	852	990	1170	1172	1375	1725	2072	2310	3586	5970
Weight empty (kg)	47	66	80	102	140	170	172	175	225	272	310	586	970
Insulation thickness (mm)	100	100	100	100	100	100	100	100	100	100	100	100	100
Height of cylinder (mm)	1300	1590	1650	1800	1950	2200	2000	2250	2320	2200	2350	2800	3250
Diameter of cylinder (mm)	480	550	650	790	790	790	850	850	1000	1100	1100	1250	1600
Service clearance													
Front (mm)	250	250	250	250	250	250	250	250	250	250	250	250	250
Sides (mm)	250	250	250	250	250	250	250	250	250	250	250	250	250
Above (mm)	300	300	300	300	300	300	300	300	300	300	300	300	300
Shipping													
Width (mm)	600	600	800	800	800	800	980	940	1140	1240	1240	1390	1700
Depth (mm)	720	720	800	940	940	940	2150	2250	2450	2450	2450	3000	1700
Height (mm)	1450	1740	1800	1950	2100	2350	1140	1140	1200	1300	1300	1460	3400
Weight (kg)	55	74	95	119	157	187	172	211	270	327	365	648	990

Buffer vessels
dimensions and connections.

Key

A. System connection
B. System connection (flow and return depending on individual system configuration)
C. Thermometer/sensor connection
D. Insulation
E. Foot height adjustment

Buffer vessels dimensions and connections



Model	Connections (A & B)	Bush connections
200	1¼" BSP	¾" BSP
300	1¼" BSP	¾" BSP
500	1½" BSP	¾" BSP
750	1½" BSP	¾" BSP
1000	1½" BSP	¾" BSP
1500	2" BSP	¾" BSP
2000	2" BSP	¾" BSP
2500	2" BSP	¾" BSP
3000	2" BSP	¾" BSP
3500	2" BSP	¾" BSP
5000	2" BSP	¾" BSP

Legionella pneumophilia recommendations.

It is the responsibility of us all to consider the safety of others when designing and installing hot water systems. Advice on doing so is contained in “Approved Code of Practice (ACOP) L8, Legionnaires’ disease: The control of legionella bacteria in water systems” and HSG274 Legionnaires’ Disease Technical Guidance.

- It is recommended that any cylinder should have access for inspection and cleaning, a system of pasteurisation and where possible dead legs in the system are designed out
- Remeha provides features which meet these needs

Temperature vs state of legionella bacteria:

- 20°C and below legionella bacteria are dormant
- 20°C to 45°C legionella bacteria multiply
- 55°C legionella bacteria die in five to six hours
- 60°C legionella bacteria die in 32 minutes
- 66°C legionella bacteria die in two minutes
- Above 70°C disinfection taking place

Technical support
and declaration of compliance.

Technical support

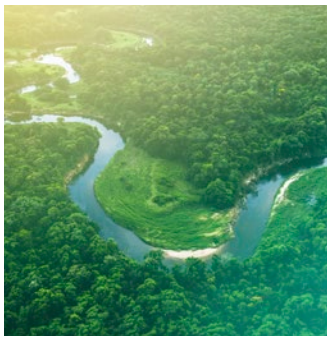
From brochures to CAD drawings and BIM files, you can access all the information you need at **remeha.co.uk**

We can provide you with:

- Brochures
- Technical specification sheets
- Installation manuals
- BIM and CAD files depending upon range
- Energy-related products directive data
- Technical information
- Spare parts (part of our aftersales service)

Contact your dedicated Remeha expert **remeha.co.uk/asm**

We're always happy to help.



Declaration of compliance

EU Directives:

- Pressure Equipment Directive 2014/68/EU
- Low Voltage Directive (LVD) 2014/35/EU
- Electromagnetic Compatibility (EMC) Directive 2014/30/EU
- RoHS Directive Annex II 2011/65/EU
- The Water supply and Fittings Regulations 1999 – 98/83/EU
- Ecodesign Requirements for Energy Related Products (ERP) Directive 2009/125/EC
- Energy Labelling Regulations 2017/254/EU

Legislation

- Building Regulations Part G and Part L (England and Wales).
- Scottish Building Standards Section 4 and Section 6
- Building Regulations (Northern Ireland) Parts F1 and F2 and Part P
- Water Supply (Water Fittings) Regulations (England and Wales)
- The Water supply and Fittings Regulations 1999 – 98/83/EU
- The Water Byelaws 2004 Scotland
- Water Supply (Water Fittings) Regulations (Northern Ireland)
- BS EN 13959 Anti-pollution Check Valves

Standards

- Relevant clauses of the following standards are complied with: EN 12897, EN 60335-2-21
- The stainless steel materials used comply with the relevant clauses of: EN 10088

Components supplied comply with the following standards:

- BS EN 1490 Building Valves – Combined Temperature and Pressure Relief Valves
- BS EN 1491 Building Valves – Expansion Valves
- BS 6144 Specification for Expansion Vessels Using An Internal Diaphragm for Unvented Water Supply Systems
- BS EN 1567 Building Valves – Water Pressure Reducing Valves and Combination Reducing Valves
- BS EN 60730-2-9 Automatic Electrical Controls – Particular Requirements for Temperature Sensing Controls
- BS EN 60730-2-8 Automatic Electrical Controls – Particular Requirements for Electrically Operated Water Valves

These cylinders should be installed in line with the following standards:

- Health and Safety Executive Approved Code of Practice L8: The control of legionella bacteria in water systems
- BS EN 806 Parts 1 to 5: Specification for installations inside buildings conveying water for human consumption
- BS 8558 Guide to the design, installation, testing and maintenance of services supplying water for domestic use within buildings
- Chartered Institute of Building Services Engineers Guide B and Guide F

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Hot Water Cylinders Specification Guide October 2021 v2