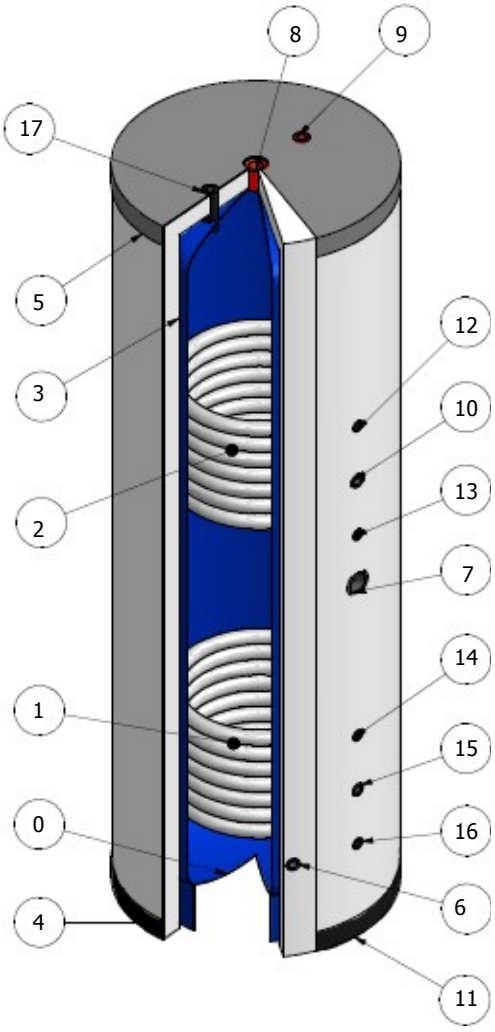
GENERAL FEATURES



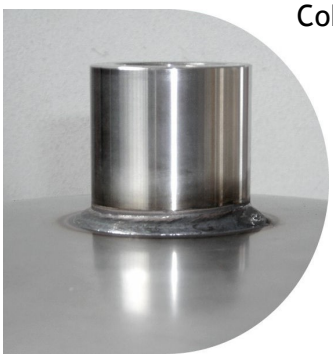
The **SS – SOL line** of Dual Coil cylinders is designed for households and light commercial Solar hot water systems.

CohMe SS- SOL line of Solar cylinders top 50% volume is dedicated to auxiliary heating sources. This **50-50 design** ensures that sufficient hot water is available during Winter months where solar gain is at the lowest.

Parts List	
No.	Description
0	Solar cylinder
1	Solar heat exchanger
2	Boiler heat exchanger
3	Insulation
4	Polystyrene Outer casing white colour
5	Top flat cover black colour
6	Cold water supply
7	Immersion heating element (1 ½")
8	Hot water draw-off
9	T&P valve/ Anti-vacuum valve (½")
10	Secondary circulation/ Boiler thermostat
11	Insulation retaining belt black colour
12	Flow from boiler
13	Return to boiler
14	Flow from solar collectors
15	Solar dual thermostat (½")
16	Return to solar collectors

CONSTRUCTION FEATURES

Coh-Me's lines of Solar **Cylinders** are manufactured from **Stainless Steel AISI 316L**. The Stainless steel is reknowned for its resistance to the corrosive action of hot water. The AISI 316L is **33% more resistant to localized corrosion** than other "low grade" stainless steel materials, and it is as resistant as Duplex 23-04.

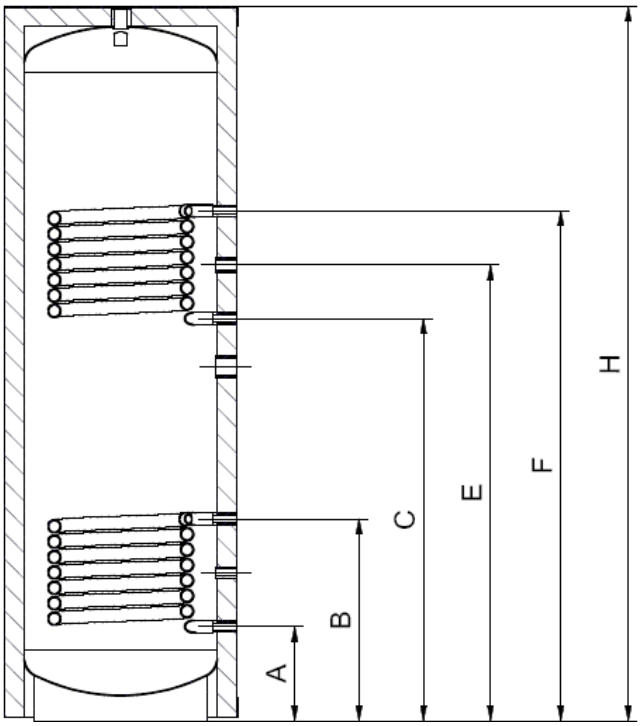


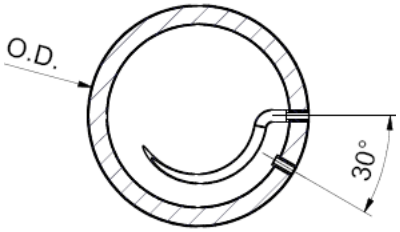
Coh-Me has chosen an innovative welding process to enhance the durability of its domestic hot water cylinders. This process enables the weld region to remain considerably "colder" than it would with conventional welding.

Furthermore, Coh-Me welding process prevents the seamweld from oxidizing because all "wet" areas are protected from atmospheric contamination by a shielding gas.

Our innovative practices effectively prevent impurities from appearing during the welding process.
As a result, **the stainless steel feature to resist the corrosive action of hot water is carried forward** to our lines of Solar **Cylinders**.

DIMENSIONAL DATA | SS – SOL 200– 450





Capacity (litre)	Trade Name	O.D. (mm)	A (mm)	B (mm)	C (mm)	E (mm)	F (mm)	H (mm)
220	**SS – SOL 200 3A**	600	230	510	830	970	1110	1320
270	**SS – SOL 250 3A**	600	230	510	1030	1170	1310	1570
316	**SS – SOL 300 3A**	600	230	510	1030	1170	1310	1820
396	**SS – SOL 400 3A**	700	210	490	1010	1150	1290	1570
466	**SS – SOL 450 3A**	700	210	490	1010	1150	1290	1820

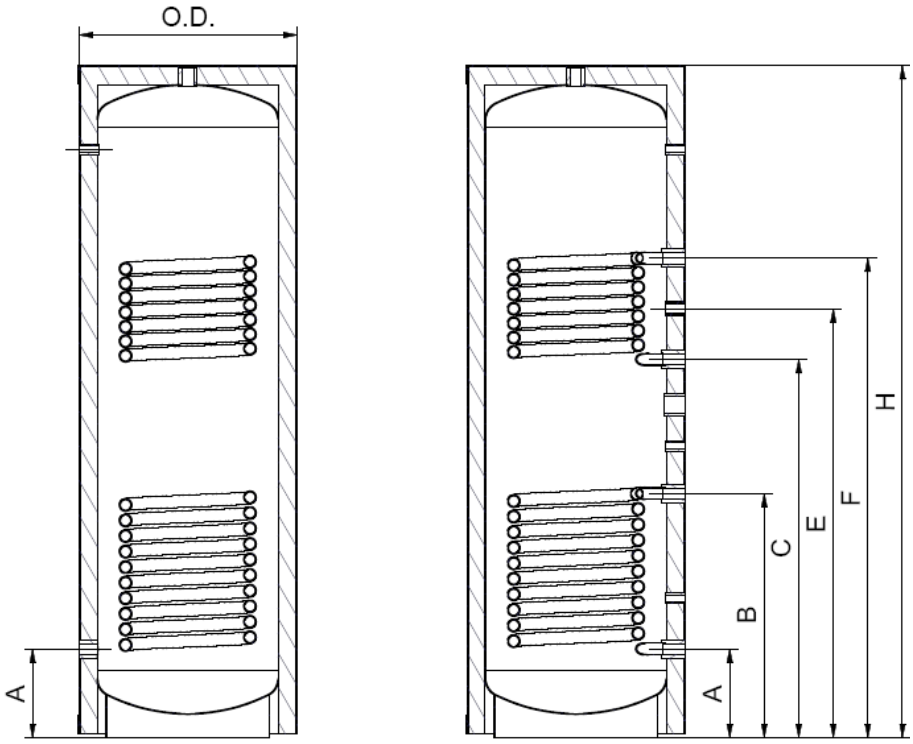
A ¾" Cold Water Supply (**1"** SS – SOL 450 3A)/ ¾" Return to Solar collectors
B ¾" Flow from Solar collectors
C ¾" Return to Boiler
E ¾" Secondary circulation
F ¾" Flow from Boiler
H ¾" Hot Water Draw-off (**1"** SS – SOL 400 / 450 3A)

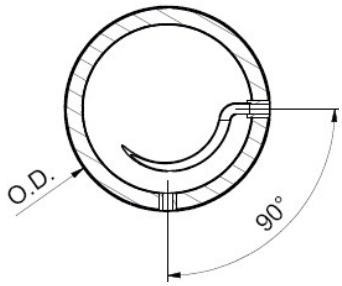
PERFORMANCE INFORMATION — SS – SOL 200– 450

Cylinder Capacity		ltr	220	270	316	396	466
Solar Heat Exchanger							
Surface (*)		sq.mt.	1.1	1.1	1.1	1.4	1.4
Water Content		Ltr	3.8	3.8	3.8	4.8	4.8
Pump capacity (ltr / h) 240. Cold Water T = 10 °C							
Reheat time (min.) to **45** °C	Primary temp.90°C	min.	16	22	24	25	30
	Primary temp.80°C	min.	24	30	34	34	41
	Primary temp.70°C	min.	35	45	50	51	61
Boiler Heat Exchanger							
Surface (*)		sq.mt.	1.1	1.1	1.1	1.4	1.4
Water Content		ltr	3.8	3.8	3.8	4.8	4.8
Auxiliary Heated Volume		ltr	81	91	140	135	206
Pump capacity (ltr / h) 900. Primary flow T = 80 °C							
Coil Ouput (kW) at **60** °C	up from 10 °C	kW	33	33	33	42	42
	up from 20 °C	kW	33	33	33	42	42
	up from 30 °C	kW	29	29	29	36	36

(*) Corrugated

DIMENSIONAL DATA | SS – SOL 600– 1500





Capacity (litre)	Trade Name	O.D. (mm)	A (mm)	B (mm)	C (mm)	E (mm)	F (mm)	H (mm)
546	**SS – SOL 600**	750	310	740	1110	1250	1390	2010
773	**SS – SOL 800**	850	380	810	1180	1320	1460	2150
968	**SS – SOL 1000**	890	355	955	1385	1600	1815	2325
1453	**SS – SOL 1500**	1090	390	990	1420	1635	1850	2425

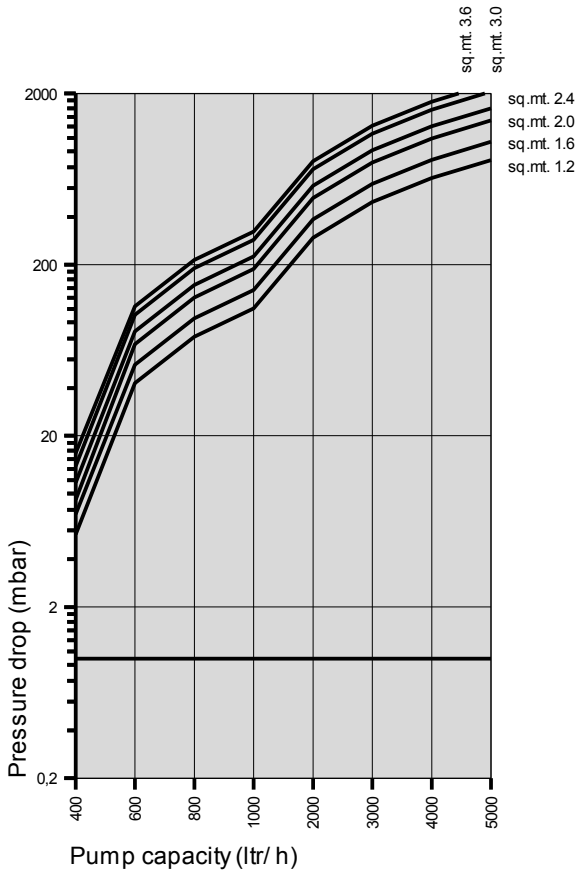
A **1 ½"** Cold Water Supply/ **1"** Return to Solar collectors
B **1"** Flow from Solar collectors
C **1"** Return to Boiler
E **1"** Secondary circulation
F **1"** Flow from Boiler
H **1½"** Hot Water Draw-off

PERFORMANCE INFORMATION — SS – SOL 600– 1500

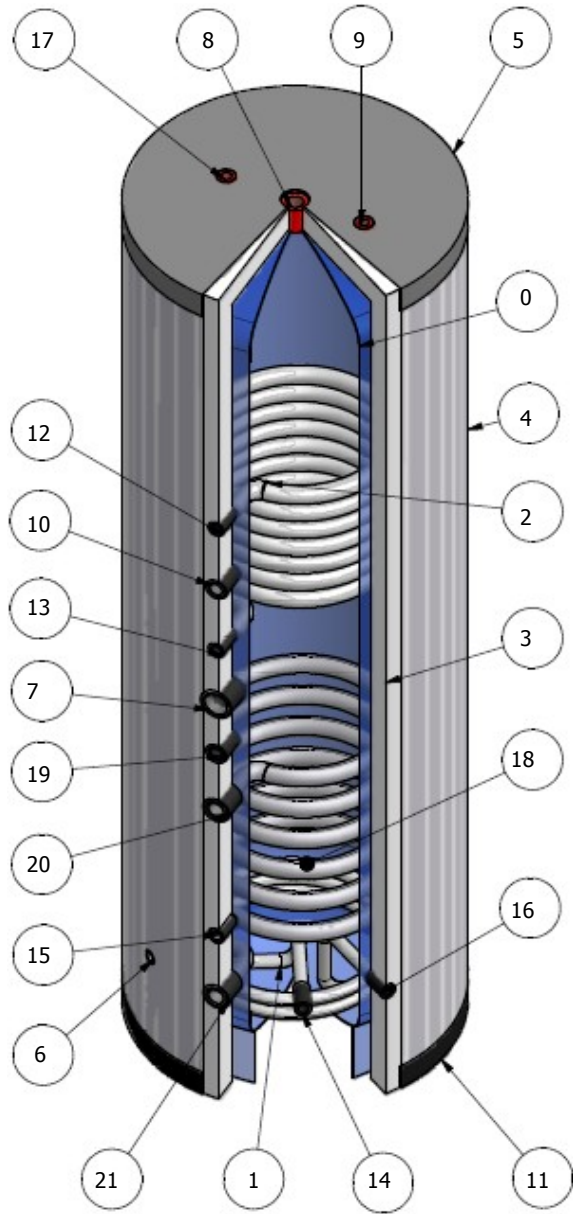
Capacity		ltr	**546**	**773**	**968**	**1453**
Solar Heat Exchanger						
Surface		sq.mt.	2.0	2.4	3.0	3.6
Water Content		ltr	14	17	21	25
Cold Water T = 10 °C. Pump capacity (ltr / h) 900						
Coil Ouput (kW)	Primary flow T = 80 °C	kW	44	61	80	115
DHW draw-off (ltr /h) at **45**°C		ltr / h	1080	1500	1970	2830
Boiler Heat Exchanger						
Surface		sq.mt.	1.2	1.2	1.2	1.6
Water Content		ltr	8.1	8.1	8.1	11.0
Auxiliary Heated Volume		ltr	248	354	443	664
Cold Water T = 10 °C. Pump capacity (ltr / h) 900						
Coil Ouput (kW)	Primary flow T = 80 °C	kW	24	28	30	48
DHW draw-off (ltr /h) at **60**°C		ltr / h	410	480	520	820

Heat Exchangers Pressure Drop

Fluid: Water / glycol comprising 40% by weight of Glycol
Primary T = 80 °C



TRIPLE COIL OPTION | SS – SSB 200– 450



Parts List	
No.	Description
0	Solar cylinder
1	Solar corrugated pipe heat exchanger
2	Auxiliary corrugated pipe heat exchanger
3	Insulation
4	Polystyrene Outer casing white colour
5	Top flat cover black colour
6	Cold water supply
7	Immersion heating element (1 ½”)
8	Hot water draw-off
9	T&P valve (½")
10	Secondary return/ Boiler thermostat
11	Insulation retaining belt black colour
12	Flow from boiler
13	Return to boiler
14	Flow from solar collectors
15	Solar dual thermostat (½")
16	Return to solar collectors
17	Auxiliary heating high limit stat (½")
18	Stove heat exchanger (30.7 mm bore)
19	Stove thermostat (½")
20	Flow from stove
21	Return to stove

The **SS – SSB range** of Triple Coil cylinders is available for up to 450 Ltr. cylinders. Dual coil cylinders will be endowed with a supplementary heat exchanger for use with solid fuel heat sources.

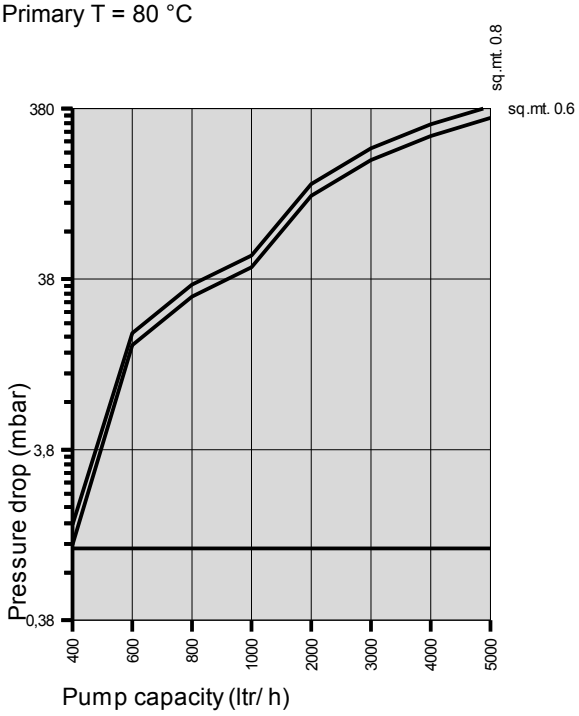
More than 90% of the cylinders volume will be heated by a soild fuel heating source. This design ensures that sufficient hot water is available during Winter months by drawing on the excess of heat from the stove.

The supplementary coiled pipe heat exchanger is designed to enable low-resistance circulation in open vent systems.

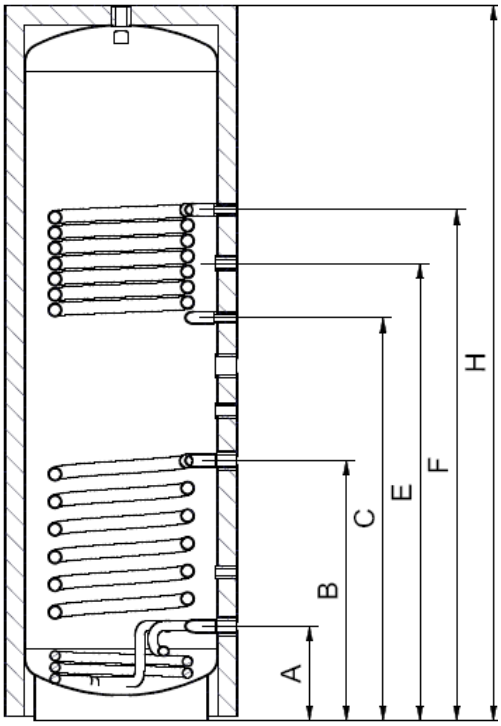
Stove Heat Exchanger Pressure Drop

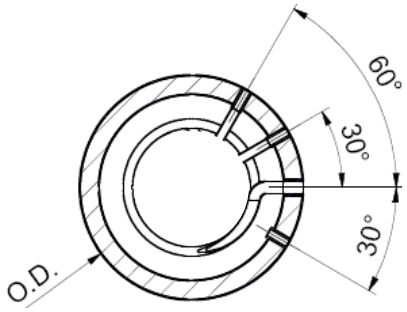
Fluid: Water

Primary T = 80 °C



DIMENSIONAL DATA | SS – SSB 200– 450





Capacity (litre)	Trade Name	O.D. (mm)	A (mm)	B (mm)	C (mm)	E (mm)	F (mm)	H (mm)
216	**SS – SSB 200**	600	230	660	830	970	1110	1320
266	**SS – SSB 250**	600	230	660	1030	1170	1310	1570
312	**SS – SSB 300**	600	230	660	1030	1170	1310	1820
393	**SS – SSB 400**	700	210	640	1010	1150	1290	1570
463	**SS – SSB 450**	700	210	640	1010	1150	1290	1820

A ¾" Cold Water Supply (**1"** SS – SSB 450 3A)/ **1"** Return to Stove/ ¾" Flow from/ Return to Solar collectors
B **1"** Flow from Stove
C ¾" Return to Boiler
E ¾" Secondary circulation
F ¾" Flow from Boiler
H ¾" Hot Water Draw-off (**1"** SS – SSB 450 3A)

PERFORMANCE INFORMATION — SS – SSB 200– 450

Cylinder Capacity		ltr	**216**	**266**	**312**	**393**	**463**
Solar Heat Exchanger							
Surface (*)		sq.mt.	0.6	0.6	0.6	0.9	0.9
Water Content		ltr	2.1	2.1	2.1	3.2	3.2
Pump capacity (ltr / h) 240. Cold Water T = 10 °C							
Reheat time to **45** °C	Primary temp.90°C	min.	30	40	45	39	47
	Primary temp.80°C	min.	45	56	65	54	64
	Primary temp.70°C	min.	66	84	96	80	96
Stove Heat Exchanger							
Surface		sq.mt.	0.6	0.6	0.6	0.9	0.9
Water Content		ltr	4.0	4.0	4.0	6.0	6.0
Auxiliary Heated Volume		ltr	198	246	295	360	430
Pump capacity (ltr / h) 900. Primary flow T = 80 °C							
Coil Ouput at **60** °C up from 10 °C		kW	12	12	12	18	18
Boiler Heat Exchanger							
Surface (*)		sq.mt.	1.1	1.1	1.1	1.4	1.4
Water Content		ltr	3.8	3.8	3.8	2.7	2.7
Auxiliary Heated Volume		ltr	81	91	140	135	206
Pump capacity (ltr / h) 900. Primary flow T = 80 °C							
Coil Ouput at **60** °C	up from 10 °C	kW	33	33	33	42	42
	up from 20 °C	kW	33	33	33	42	42
	up from 30 °C	kW	29	29	29	36	36

(*) Corrugated