

# SINGLE COIL DHW CYLINDER S20 & S20B



The easiest solution for DHW production



Single coil tank available from 80 Lt up to 5000 Lt S20 model for DHW production is manufactured in **Duplex 2205 Stainless Steel**, and is suitable for residential and commercial use.

S20 Model, heat exchanger coil may be installed with different energy sources: boiler, gaz, pellets, solar thermal ... etc.

Exterior finished in White polyester reinforced with glass fiber for an easy cleanliness.

Coballes accumulators and tanks are manufactured according ecodesign Directive **ErP, (Energy related Products)**, using a quality injected polyurethane foam CFC free.

S20 RANGE 80 TO 3000 LT

S20B: MANHOLE 750 TO 5000 LT

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Gasoil/Gas



Solar



Firewood, pellets

# SINGLE COIL DHW CYLINDER S20 & S20B

## OPTIONAL ACCESORIES



Digital electrical kit Ref: 9006089



Electrical Kit Ref:9006057

Models 80 to 100 Lt



Electrical Kit Ref:9006058

Models 125 to 740 Lt

### Electrical Kit (optional):

Tanks from 125Lt to 740 Lt have an elliptical hole to which the electric switchboard may be fixed as back up heat or to ensure the production of DHW in the event of a failure in the primary source.

From 740Lt the electric switchboard must be fixed by the manufacturer. Contact us if you require extra electrical power or volume.

Up to 200Lt the same model is valid wall mount and floor stand.

MODEL	REF.	LT	INSTALL	WALL MOUNT	S.STEEL LEG	FLOOR STAND	ELECTRICAL KIT
S20	1030020	80	Vertical	yes	-	yes	frontal
	1030021	100	Vertical	yes	-	yes	frontal
	1030022	125	Vertical	yes	-	yes	frontal
	1030023	150	Vertical	yes	-	yes	frontal
	1030024	200	Vertical	yes	-	yes	frontal
	1030025	250	Vertical	-	-	yes	frontal
	1030026	300	Vertical	-	-	yes	frontal
	1030027	500	Vertical	-	-	yes	frontal
	1030028	740	Vertical	-	-	yes	frontal
	1030029	1000	Vertical	-	-	yes	frontal
	1030030	1500	Vertical	-	yes	-	frontal
	1030031	2000	Vertical	-	yes	-	frontal
	1030032	2500	Vertical	-	yes	-	frontal
1030033	3000	Vertical	-	yes	-	frontal	
S20B	1030028BH	750	Vertical	-	-	yes	frontal
	1030029BH	1000	Vertical	-	-	yes	frontal
	1030030BH	1500	Vertical	-	yes	-	frontal
	1030031BH	2000	Vertical	-	yes	-	frontal
	1030032BH	2500	Vertical	-	yes	-	frontal
	1030033BH	3000	Vertical	-	yes	-	frontal
	1030035BH	4000	Vertical	-	yes	-	frontal
1030037BH	5000	Vertical	-	yes	-	frontal	

# SINGLE COIL DHW CYLINDER S20 & S20B

## KEY FEATURES

### DUPLEX 2205

Manufactured in stainless steel quality Duplex 2205, the highest Quality.

**Total resistance to corrosion.**

### MAINTENANCE FREE

The high quality of material we use does not require any maintenance.

It does not need any type of cathode protection.

### TIG WELDING

The **highest accuracy** in welding, to avoid the presence of pores.

### HEATING COIL

**Seamless manufacturing**, avoiding intermediate welds.

### PICKLING

Pickling and passivation by immersion which allows a **perfect treatment** of the welds on the tank in the face both internal and external.

### ISOLATION

Thermal insulation in polyurethane foam injected CFC-free, ensuring compliance with the new **ERP Directive**.



**Accumulator vertical mount for DHW production.**

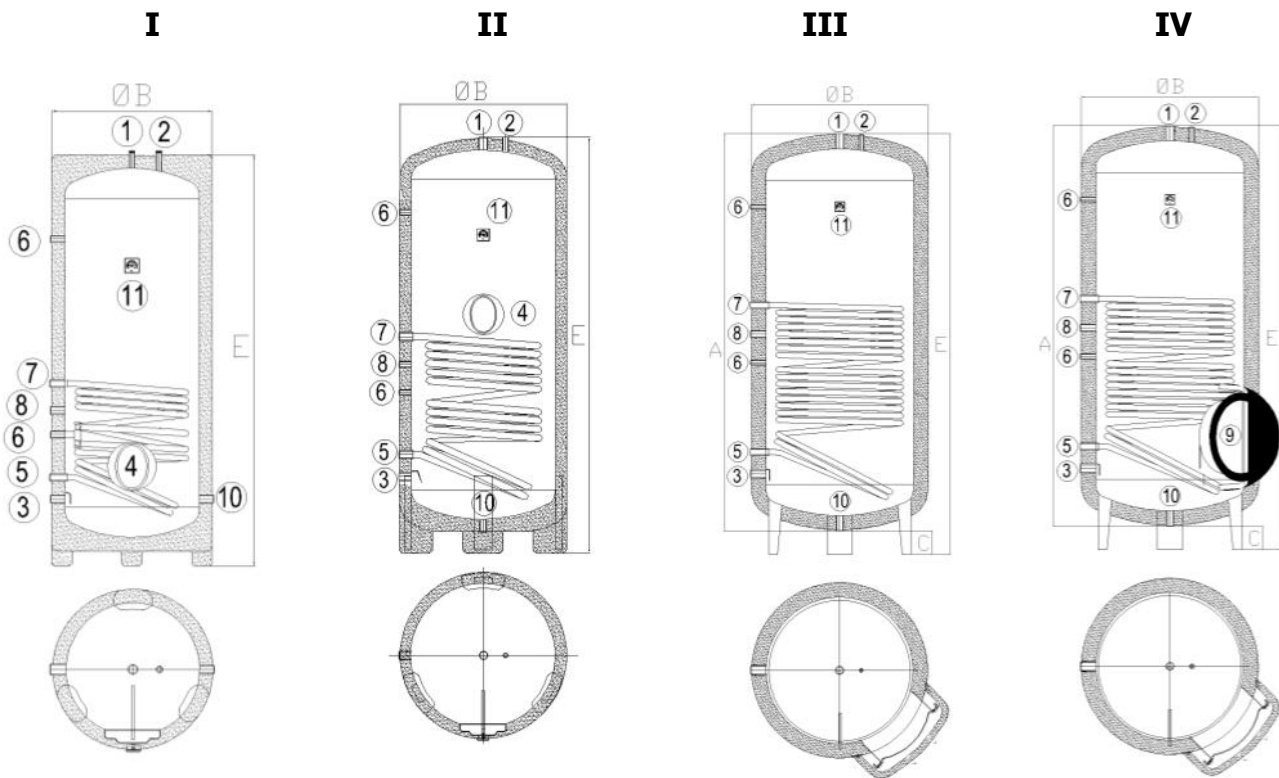
**Operating pressure 8 bar both primary and secondary circuit T: 90°C**

Manufacturing and materials 100% European

**Manufactured according to Directive 2014/68/UE and Standard EN13445**

**Manufactured according to Directives ErP 2009/125 CE and ELD 2010/30/UE**

# Dimensions



MODEL	REF.	Energy class	LT	Dimensions (mm)					
				A	ØB	C	D	E	
S20	<i>I</i>	<b>1030020</b>	<i>C</i>	80		430		540	980
	<i>I</i>	<b>1030021</b>	<i>C</i>	100		430		740	1170
	<i>I</i>	<b>1030022</b>	<i>C</i>	125		510		590	1205
	<i>I</i>	<b>1030023</b>	<i>C</i>	150		530		740	1245
	<i>I</i>	<b>1030024</b>	<i>C</i>	200		600		740	1300
	<i>II</i>	<b>1030025</b>	<i>C</i>	250		600			1600
	<i>II</i>	<b>1030026</b>	<i>C</i>	300		600			1830
	<i>II</i>	<b>1030027</b>	<i>C</i>	500		750			1880
	<i>II</i>	<b>1030028</b>		740	1740	980	110		1850
	<i>III</i>	<b>1030029</b>		1000	2190	980	110		2300
	<i>III</i>	<b>1030030</b>		1500	2490	1110	110		2600
	<i>III</i>	<b>1030031</b>		2000	2290	1360	110		2400
	<i>III</i>	<b>1030032</b>		2500	2790	1360	110		2900
<i>III</i>	<b>1030033</b>		3000	3190	1360	110		3300	
S20B	<i>IV</i>	<b>1030028BH</b>	750	1740	980	110		1850	
	<i>IV</i>	<b>1030029BH</b>	1000	2190	980	110		2300	
	<i>IV</i>	<b>1030030BH</b>	1500	2490	1110	110		2600	
	<i>IV</i>	<b>1030031BH</b>	2000	2290	1360	110		2400	
	<i>IV</i>	<b>1030032BH</b>	2500	2790	1360	110		2900	
	<i>IV</i>	<b>1030033BH</b>	3000	3190	1360	110		3300	
	<i>IV</i>	<b>1030035BH</b>	4000	2070	1940	150		2220	
	<i>IV</i>	<b>1030037BH</b>	5000	2450	1940	150		2600	

Energetic class A available. Request info

# Connections

1. Hot Water outlet
2. Safety valve connection
3. Cold Water inlet
4. Registry opening-Optional electric kit
5. Primary circuit outlet
6. Temperature sensor connection
7. Primary circuit inlet
8. Recirculation (Starting at 250Lt)
9. Mnahole (from 750 L)
10. Drain (Starting at 250Lt)
11. Thermómeter

MOD	REF	LT	Connections										
			1	2	3	4	5	6	7	8	9	10	
S20	1030020	80	3/4"	1/2"	3/4"	1 1/4"	3/4"	1/2"	3/4"				
	1030021	100	3/4"	1/2"	3/4"	1 1/4"	3/4"	1/2"	3/4"				
	1030022	125	3/4"	1/2"	3/4"	150x100	3/4"	1/2"	3/4"				
	1030023	150	3/4"	1/2"	3/4"	150x100	3/4"	1/2"	3/4"				
	1030024	200	3/4"	1/2"	3/4"	150x100	3/4"	1/2"	3/4"				
	1030025	250	3/4"	1/2"	3/4"	150x100	3/4"	1/2"	3/4"	3/4"			3/4"
	1030026	300	1"	1/2"	1"	150x100	3/4"	1/2"	3/4"	3/4"			3/4"
	1030027	500	1"	1/2"	1"	150x100	1"	1/2"	1"	3/4"			3/4"
	1030028	740	1,1/4"	1/2"	1,1/4"	150x100	1"	1/2"	1"	1"			1"
	1030029	1000	1,1/2"	1/2"	1,1/4"		1"	1/2"	1"	1"			1"
	1030030	1500	2"	1/2"	2"		1"	1/2"	1"	1"			1"
	1030031	2000	2"	1/2"	2"		1"	1/2"	1"	1,1/4"			1,1/4"
	1030032	2500	2"	1/2"	2"		1"	1/2"	1"	1,1/4"			1,1/4"
1030033	3000	2"	1/2"	2"		1"	1/2"	1"	1,1/4"			1,1/4"	
S20B	1030028BH	750	1,1/4"	1/2"	1,1/4"		1"	1/2"	1"	3/4" Ø int 400			1"
	1030029BH	1000	1,1/2"	1/2"	1,1/2"		1"	1/2"	1"	1" Ø int 400			1"
	1030030BH	1500	2"	1/2"	2"		1"	1/2"	1"	1" Ø int 400			1"
	1030031BH	2000	2"	1/2"	2"		1"	1/2"	1"	1,1/4" Ø int 400			1,1/4"
	1030032BH	2500	2"	1/2"	2"		1"	1/2"	1"	1,1/4" Ø int 400			1,1/4"
	1030033BH	3000	2"	1/2"	2"		1"	1/2"	1"	1,1/4" Ø int 400			1,1/4"
	1030035BH	4000	3"	1/2"	3"		2"	1/2"	2"	1,1/4" Ø int 400			1,1/4"
1030037BH	5000	3"	1/2"	3"		2"	1/2"	2"	1,1/4" Ø int 400			1,1/4"	

## Thermal characteristics

Model	Energy class	Total Volume	Heat exchanger surface	Maximum pressure (coil)	Maximum pressure (tank)	Maximum operating temperature	Net weight
		L	m <sup>2</sup>	bar	bar	°C	Kg
<b>S20-80</b>	<b>C</b>	80	0,38	8	8	90	21
<b>S20-100</b>	<b>C</b>	100	0,38	8	8	90	24
<b>S20-125</b>	<b>C</b>	125	0,57	8	8	90	28
<b>S20-150</b>	<b>C</b>	150	0,57	8	8	90	36
<b>S20-200</b>	<b>C</b>	200	0,75	8	8	90	47
<b>S20-250</b>	<b>C</b>	250	0,75	8	8	90	60
<b>S20-300</b>	<b>C</b>	300	0,92	8	8	90	80
<b>S20-500</b>	<b>C</b>	500	1,7	8	8	90	111
<b>S20-740</b>		740	2,83	8	8	90	149
<b>S20-750</b>		750	2,83	8	8	90	172
<b>S20-1000</b>		1000	3,58	8	8	90	204
<b>S20-1500</b>		1500	4,52	8	8	90	305
<b>S20-2000</b>		2000	5,65	8	8	90	484
<b>S20-2500</b>		2500	6,79	8	8	90	573
<b>S20-3000</b>		3000	6,79	8	8	90	621
<b>S20-4000</b>		4000	11	8	8	90	790
<b>S20-5000</b>		5000	11	8	8	90	877

	POWER COIL AND CONTINUOUS PRODUCTION OF HOT WATER <sup>1</sup>			
	70°C*		50°C**	
	KW	l/h	KW	l/h
<b>S20-80</b>	11	267	7	177
<b>S20-100</b>	11	267	7	177
<b>S20-125</b>	16	387	10	257
<b>S20-150</b>	16	387	10	257
<b>S20-200</b>	22	530	14	353
<b>S20-250</b>	22	530	14	353
<b>S20-300</b>	22	530	14	353
<b>S20-500</b>	45	1096	30	729
<b>S20-740</b>	73	1794	49	1197
<b>S20-750</b>	73	1794	49	1197
<b>S20-1000</b>	87	2135	58	1427
<b>S20-1500</b>	114	2799	76	1876
<b>S20-2000</b>	140	3441	94	2311
<b>S20-2500</b>	165	4062	111	2736
<b>S20-3000</b>	165	4062	111	2736
<b>S20-4000</b>	268	6595	218	5364
<b>S20-5000</b>	268	6595	218	5364

Flow (m <sup>3</sup> /h)	Heat loss (mwc) <sup>1</sup>		
	1	3	5
<b>S20-80</b>	0,03	2,07	5,15
<b>S20-100</b>	0,03	2,07	5,15
<b>S20-125</b>	0,41	3,02	7,49
<b>S20-150</b>	0,41	3,02	7,49
<b>S20-200</b>	0,56	4,15	10,30
<b>S20-250</b>	0,56	4,15	10,30
<b>S20-300</b>	0,56	4,15	10,30
<b>S20-500</b>	0,20	1,44	3,60
<b>S20-740</b>	0,33	2,40	6,00
<b>S20-750</b>	0,33	2,40	6,00
<b>S20-1000</b>	0,40	2,88	7,20
<b>S20-1500</b>	0,53	3,84	9,60
<b>S20-2000</b>	0,67	4,80	12,00
<b>S20-2500</b>	0,80	5,76	14,40
<b>S20-3000</b>	0,80	5,76	14,40
<b>S20-4000</b>	0,96	8,64	23,99
<b>S20-5000</b>	0,96	8,64	23,99

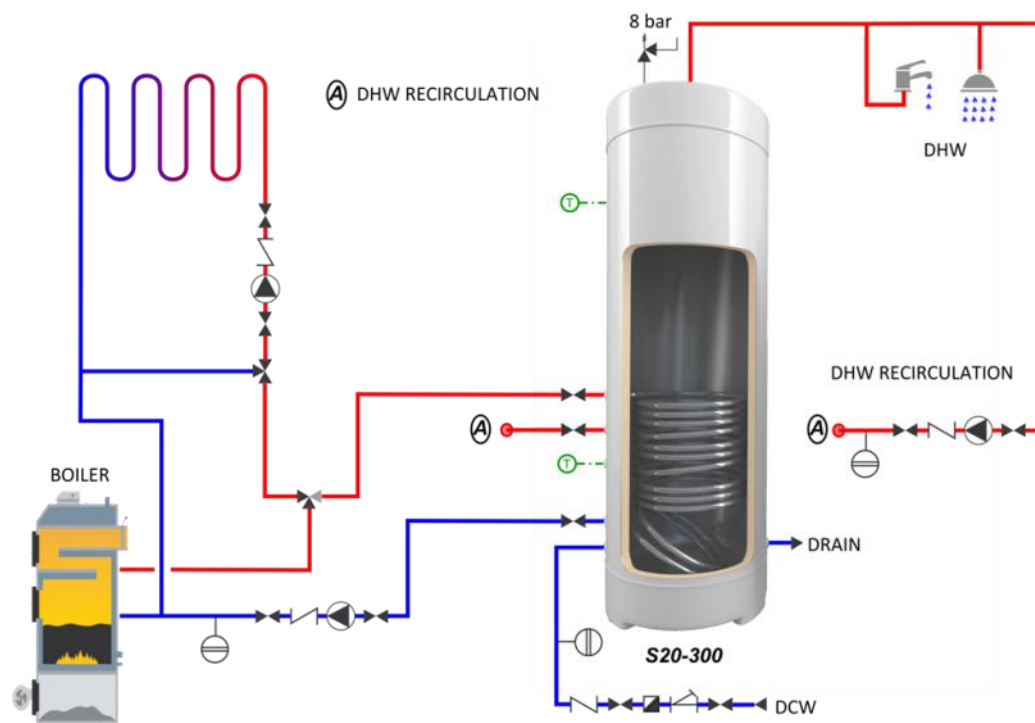
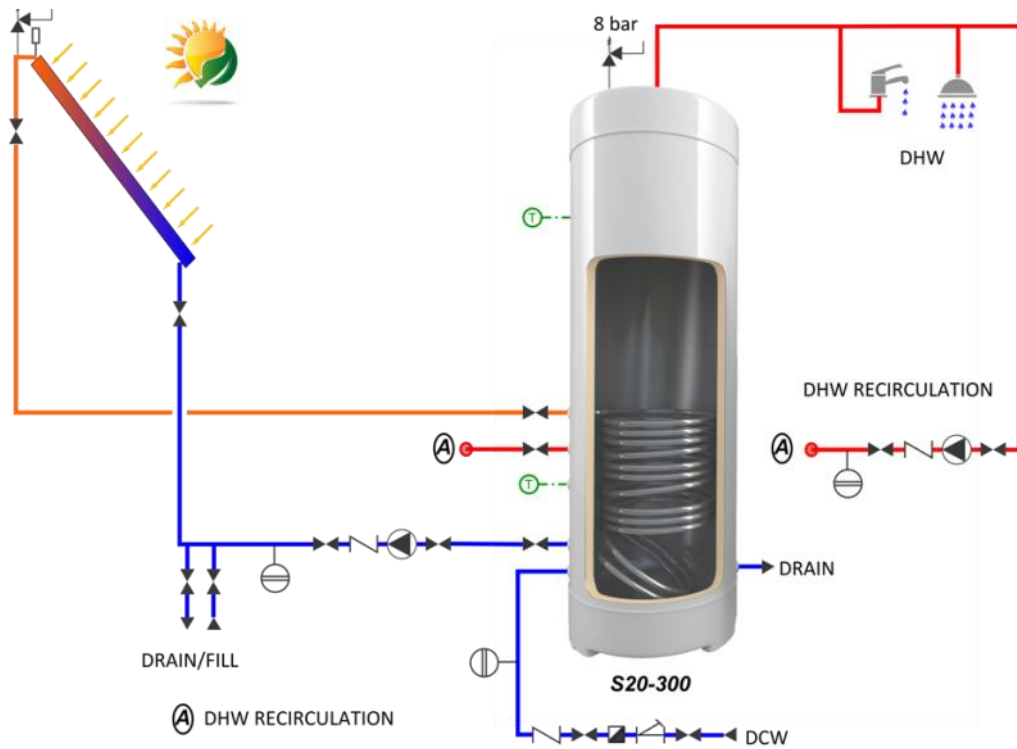
1- DHW continuous production from 10 °C to 45 °C if the power of the heat source is at least equal to the power of the corresponding coil.

\*- Flow temperature 70°C ; Tank temperature 10°C

\*\* - Flow temperature 50°C ; Tank temperature 10°C

1- Water temperature 50°C

# Installation examples



MODEL S20 may be installed with different energy sources



Gasoil/Gas



Solar



Electricity



Firewood, pellets



Heat Pump



Others