

TANK IN TANK DUAL FUNCTION + COIL DS20



Tank in Tank + coil: DHW & Heating



*Range from 300 Lt up to 1.000 Lt dual function accumulators tank for DHW production and inertia , manufactured in **Dúplex 2205 Stainless Steel.***

Additional heating coil for solar energy source.

Exterior finish in white polyester reinforced with fiberglass, which allows easy cleaning and ensures its durability.

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

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OPTIONAL ACCESORIES



Digital Electrical Kit Ref: 9006089



Electrical Kit Ref: 9006058

Model 125 to 740 LT

Optional Electrical Kit

Electric kit may be fixed as support or to ensure Hot Water production as main heat source.

MODEL	REF.	LT	INSTALL	WALL MOUNT	S.STEEL LEG	FLOOR STAND	ELECTRICAL KIT
DS20	1060015	300/100	V		-	Yes	frontal
	1060020	500/150	V		-	yes	frontal
	1060024	740/200	V		Yes	-	frontal
	1060026	1000/250	V		yes	-	frontal

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KEY FEATURES

DUPLEX 2205

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

Total resistance to corrosion.

TANK IN TANK

DHW tank inside the storage tank.

EXCHANGE SURFACE

The high exchange surface allows the quickly production of hot water, minimizing recovery time. .

MAINTENANCE FREE

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

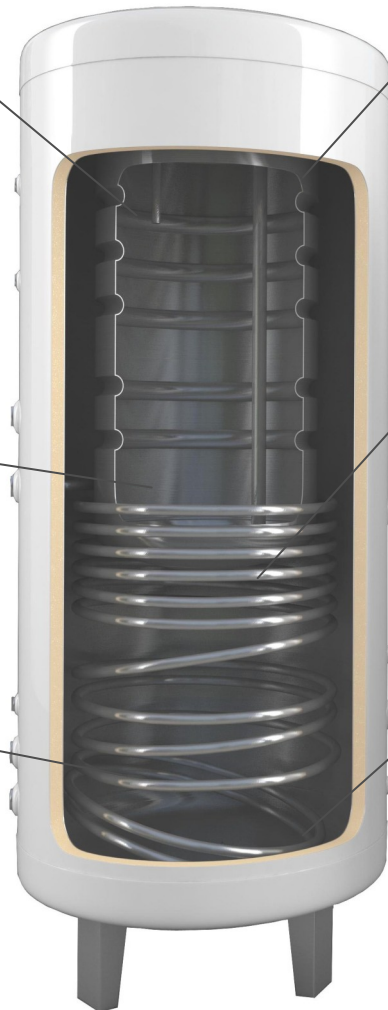
It does not need any type of cathode protection.

HEATING COIL

Internal coil for solar energy.

ISOLATION

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



Dual function+ coil accumulator DS20

The tank in tank DS20 for vertical installation is destined to the preparation of sanitary hot water as well as to the accumulation of inertia. It consists of an external tank and a tank on the inside of this, the inner tank is heated by bain-marie and is intended to the accumulation of hot water. The external tank can be heated by the use of various energy sources although it is specially designed for use with biomass boilers.

Interior heating coil for solar energy, although it's also valid for installation with other energy sources.

Operating pressure 4 bar primary and 8 bar secondary circuit T: 90°C both primary and secondary circuit.

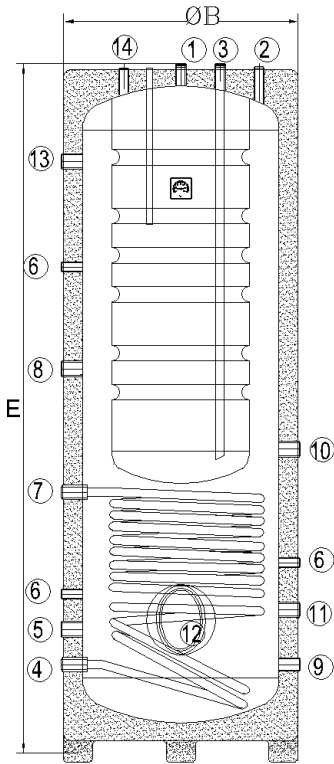
Manufacturing and materials 100% European

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

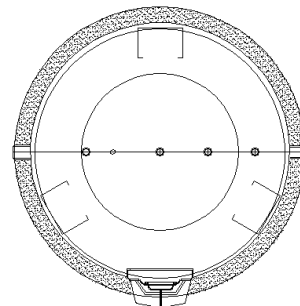
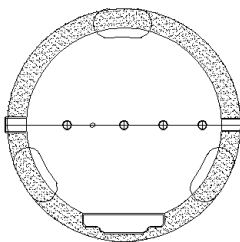
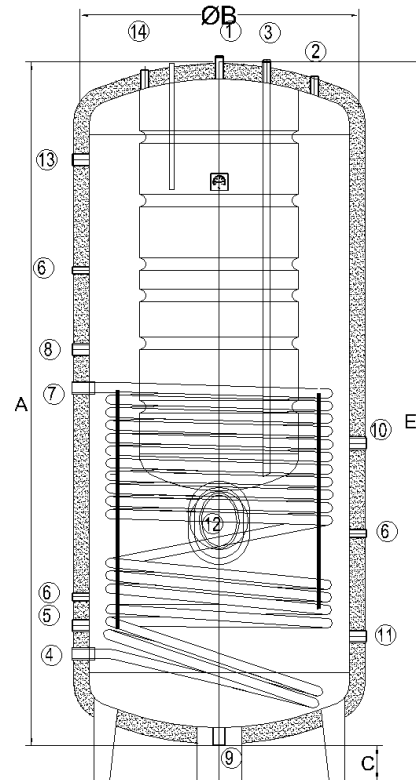
Manufactured according to Directives ErP 2009/125 CE and ELD 2010/30/UE

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I



II



MODEL	REFERENCE	Energy class	TOTAL VOLUME LITRES	DHW	Dimensions (mm)				
					A	ØB	C	E	
DS20	I	1160015	C	300	100	600		1785	
	I	1160020	C	500	150	750		1830	
	II	1160024		740	200	1740	980	110	1850
	II	1160026		1000	250	2190	980	110	2300

Energetic class A available. Request info

Connections

1. Hot Water outlet
2. Safety valve – Air bleeder – Fill connection
3. Cold Water inlet
4. Solar circuit outlet
5. Floor heating/radiadors inlet
6. Temperature sensor connection
7. Primary circuit inlet solar
8. Floor heating outlet
9. Drain
10. Boiler circuit inlet
11. Boiler circuit outlet
12. Inspection elliptical hole 150x100 (optional electrical kit)
13. Radiador outlet
14. Safety valve connection

MOD	REF	TOTAL LT	Connections													
			1	2	3	4	5	6	7	8	9	10	11	12	14	
DS20	1160035	300	3/4"	1/2"	3/4"	3/4"	1"	1/2"	3/4"	1"	3/4"	1"	1"	Elip. 150x100	1/2"	
	1160040	500	3/4"	1/2"	3/4"	1"	1"	1/2"	1"	1"	1"	1"	1"	Elip. 150x100	1/2"	
	1160044	740	3/4"	1/2"	3/4"	1"		1/2"	1"	1"	1"	1"	1"	Elip. 150x100	1/2"	
	1160046	1000	3/4"	1/2"	3/4"	1"		1/2"	1"	1"	1"	1"	1"	Elip. 150x100	1/2"	

Thermal characteristics

Tank	Energy class	Total Vol	Volume- primary	Volume (DHW)	Hot Water tank surface	Heating coil surface	Maximum pressure (coil)	Maximum pressure (tank) primary)	Maximum pressure (tank) DHW	Maximum operating Temp.	Net weight
		L	L	L	m ²	m ²	bar	bar	bar	°C	Kg
DS20-300/100L	C	300	200	100	1,09	0,968	8	4	8	90	98
DS20-500/150L	C	500	350	150	1,36	1,70	8	4	8	90	133
DS20-740/200L		740	540	200	1,61	2,8	8	4	8	90	177
DS20-1000/250L		1000	750	250	2,01	3,4	8	4	8	90	233

WARM UP TIME Primary tank					
Energy supplied (KW)		D20-300/100L	D20-500/150L	D20-740/200L	D20-1000/250L
15	min	46	81	125	174
20	min	35	61	94	131
25	min	28	49	75	105
30	min	23	41	63	87
35	min	20	35	54	75
40	min	17	30	47	65
50	min	14	24	38	52
75	min	9	16	25	35

	HEAT EXCHANGER	
	70°C*	50°C**
	KW	KW
DS20-300/100L	27	18
DS20-500/150L	45	30
DS20-740/200L	73	49
DS20-1000/250L	87	58

Coil energy loss(mwc) ¹			
Flow (m ³ /h)	1	3	5
DS20-300/100L	0,71	5,27	13,11
DS20-500/150L	0,20	1,44	3,60
DS20-740/200L	0,33	2,40	6,00
DS20-1000/250L	0,40	2,88	7,20

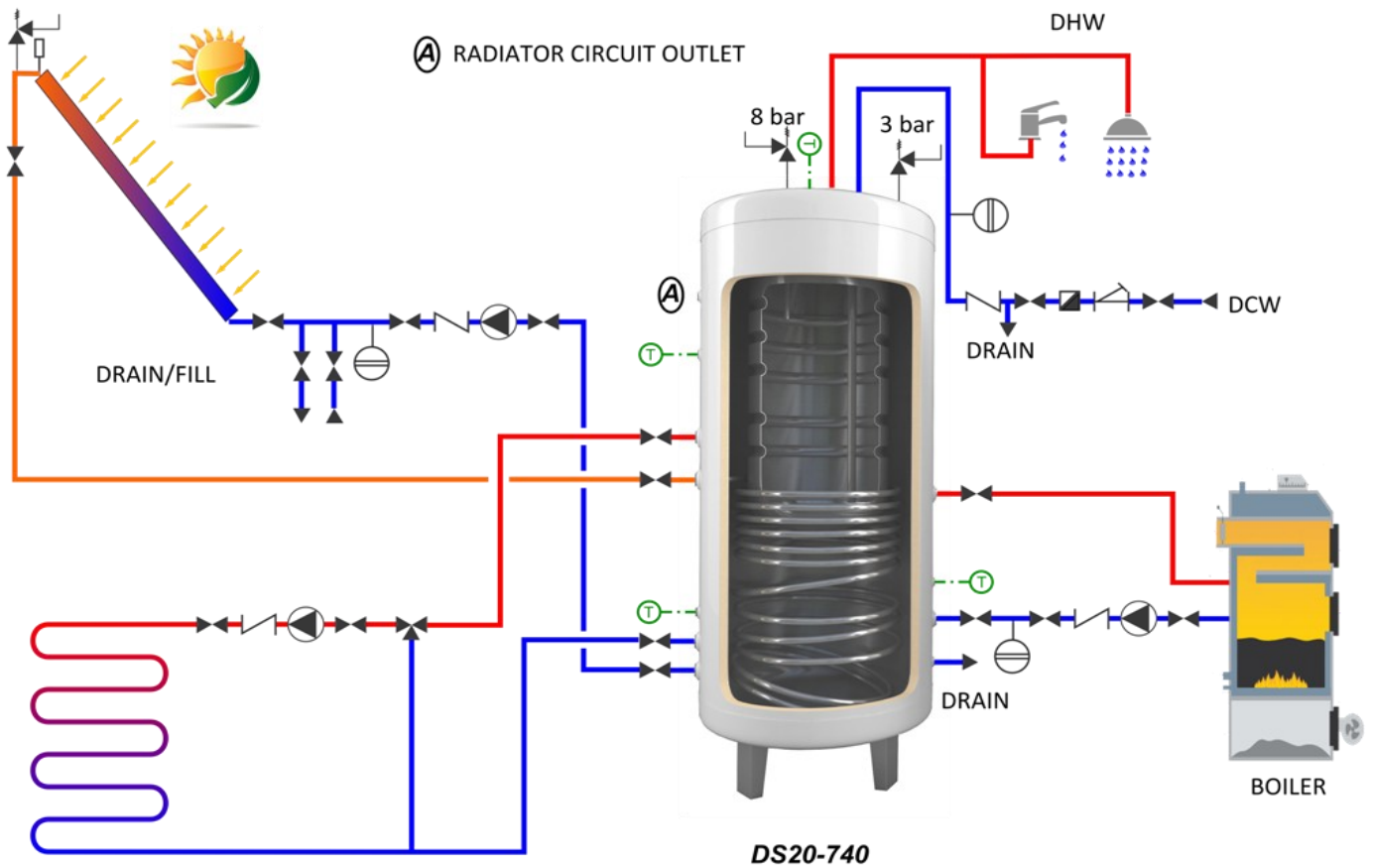
1- Water temperature 50°C

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

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

1kW=860kcal/hour

Installation examples



Model DS20 may be installed with different energy sources



Gasoil/Gas



Solar



Electricity



Firewood, pellets,



Heat Pump



Others