

5000

1600

250

460

925

855

1480

2160

2230

645

1900

2690

1200

715

## Hot Water Tanks For Professional Use

Storage tank for sanitary hot water production. Optimal for the store of sanitary water, versatile for domestic and industrial use. Up to 3 heat exchangers plus electrical back-up.

Compatible with all the sources of energy:

- To be integrated in all kind of installations
- Rapid heating, abundant and continuous hot water production
- High efficiency for low operating costs
- Absolute Hygiene
- Long durability without corrosion
- Simplicity of installation

CBL - HOT WA	FER TANKS SPECIFICATIONS
Tank Material:	EPOXY RESIN: water-heater made of high-quality steel, complete with anodic protection, with epoxy synthetic resins internal coating
GLASS LINE:	Water-heater made of high-quality steel, complete with anodic protection, inside enameled treatment according to DIN 4753-3 and
	UNI 10025 (up to model 3000)
CBL0, CBL1, CBL2:	Water-heater made of high-quality steel with 0, 1 or 2 inspection flanges Ø290/220 mm for detachable copper spiral coils up to 6.3m <sup>2</sup>
CBL DN:	Water-heater made of high-quality steel with 1 inspection flange Ø480/400mm for detachable stainless-steel U-type heat exchanger.
Heat Exchanger:	Removable Spiral finned Copper coil-tinned complete with bored flange, upper cap for flange, nuts & Bolts.
Insulation:	Soft Polyurethane 100mm

• Each heat exchanger can be fitted in all the tanks. The price will change accordingly

- Aluminum Cladding is optional with additional cost
- External cover flexible PVC jacket (indoor use)
- Hot water tank with 3 flanges and heat exchangers (CBL-3) can be offered upon request



-DN	200	300	500	800	1000	1500	2000	2500	3000	1500	2000	2500	3000	4000	5000
I	208	285	490	749	955	1430	1990	2346	2848	1430	1990	2346	2959	4043	4854
	C 77	C 95	C 115	C 130	C 142	C 162	C 186	C 325	344	C 162	C 186	325	344	421	455
ZZ mm	1275	1675	1755	1875	2205	2185	2470	2470	2680	2155	2470	2230	2730	2650	2760
mm	1275	1660	1760	1920	2200	2200	2520	2520	2725	2200	2520	2380	2810	2800	2950
XX ø mm	700	700	850	990	990	1200	1300	1300	1450	1200	1300	1450	1450	1700	1800
BL0 BL1 BL3 mm	290/220 (no EPOXY RESIN)														
CBL DN ø mm		-							48	0/40	0				
kg	70	91	135	190	207	321	405	490	587	298	351	435	587	546	696
bar	r 10 8			6											
°C					95					8	0 (EPC	DXY R	ESIN)		
	-DN I ZZ mm mm XX ø mm BL0 BL1 BL3 mm CBL DN ø mm kg bar ¢C	-DN 200 208 208 208 208 208 208 208	-DN 200 300 208 285 208 285 208 285 209 205 200 1275 1675 200 1275 1660 200 200 200	-DN       200       300       500         208       285       490         208       285       490         208       285       115         208       285       115         209       205       115         22 mm       1275       1675         mm       1275       1660         XX ø       700       700         BL0       700       700         BL1       383	-DN       200       300       500       800         208       285       490       749         208       285       1490       149         208       285       115       150         208       285       115       150         22 mm       1275       1675       1755       1875         22 mm       1275       1660       1760       1920         XX ø       700       700       850       990         BL0       700       700       850       990         BL1       700       700       850       190         BL0       200       200       135       190         BL1       70       91       135       190         BL3       70       91       135       190         BL3       70       91       135       190         BL3       200       200       200       200       200         BL3       70       91       135       190         BL3       200       200       200       200       200         SBL0       200       200       200       200       200	-DN       200       300       500       800       1000         I       208       285       490       749       955         I       208       285       115       130       142         I       208       95       115       130       142         I       1275       1675       1755       1875       2205         I       1275       1660       1760       1920       2200         XX       Ø       700       700       850       990       990         I       1275       1660       1760       1920       2200         XX       Ø       700       700       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207       321	$\begin{array}{ c c c } \hline -DN & 200 & 300 & 500 & 800 & 1000 & 1500 & 2000 \\ \hline \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	-DN       200       300       500       800       1000       1500       2000       2500         I       208       285       490       749       955       1430       1990       2346         I       208       285       115       130       142       162       186       325         ZZ mm       1275       1675       1755       1875       2205       2185       2470       2470         mm       1275       1660       1760       1920       2200       2100       2520       2520         XX ø       700       700       850       990       990       1200       1300       1300         BLO       SBL3       1660       1760       1920       2000       1200       1300       1300         BLD       700       700       850       990       990       1200       1300       1300         BLD       9       9       9       9       1200       1300       1400         BL       9  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      2       <math>77</math> <math>95</math> <math>115</math> <math>126</math> <math>142</math> <math>162</math> <math>186</math> <math>325</math> <math>344</math> <math>162</math> <math>162</math>         ZZ mm       <math>1275</math> <math>1675</math> <math>1755</math> <math>1875</math> <math>2205</math> <math>2185</math> <math>2470</math> <math>2470</math> <math>2680</math> <math>2155</math> <math>2470</math>         mm       <math>1275</math> <math>1660</math> <math>1760</math> <math>1920</math> <math>2200</math> <math>2200</math> <math>2520</math> <math>2520</math> <math>2725</math> <math>2200</math> <math>2520</math> <t< td=""><td>-DN       200       300       500       800       1000       1500       2000       2500       3000       1500       2000       2500         1       208       285       490       749       955       1430       1990       2346       2848       1430       1990       2346         1       208       285       490       749       955       1430       1990     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### N° CONNECTOR TYPE

1.	Domestic hot water inlet
2	Thermometer

3. Feeler

4. Drain coil

**TECHNICAL DATA** 

- 5. Cold water inlet
- 6. Electronic anode-feeler
- 7. Anode
- 8. Electric heater re-circulation
- 9. VS DN Drain coil



CBL-1





200÷ 500	800÷ 1000	1500	2000	3000	4000- 5000
1 1/4	1" 1/2	1" 1/2	2"	2"	3"
1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
1"	1"	1" 1/4	1" 1/4	1" 1/4	1" 1/4
1" 1/2	1" 1/2	1" 1/2	2"	2"	3"
1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4
1" 1/2	1" 1/2	1" 1/2	1" 1/2	1" 1/2	1" 1/2
-	1"	1" 1/4	1" 1/4	1"	1"

CBL-2



## CBL-3



# SOLE CBL0 - CBL1 - CBL3 - CBL DN

### PLANT SCHEME SANITARY



Diagrams illustrating the operation but do not replace the project work.



**HEAT EXCHANGERS PRESSURE DROPS** 

### DIAGRAMS OF SPECIFIC POWER IN FUNCTION OF THE INLET TEMPERATURE OF THE EXCHANGER





Serpentine SR4 1000 90 °C 900 70 °C 800 () 700 50 °C S 600 500 400 300 200 100 0 1000 1500 2500 3030 3500 4000 4500 500 2000 Q (l/h)



Calculation power transmitted to the tank (q):  $q = KS \cdot (Ti - Ta) [W]$ Ti = Temperature inlet exchanger - Ta = Medium temperature between T Cold water inlet and T top part Tank



# **CBLO**

## CBL1

CBL2

CBL3











N° CONNECTOR TYPE	200÷ 500	800÷ 1000	1500	2000	3000	4000- 5000
1. Domestic hot water inlet	1" 1/4	1" 1/2	1" 1/2	2"	2"	3"
2. Thermometer	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
3. Feeler	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
4. Drain coil	1"	1"	1" 1/4	1" 1/4	1" 1/4	1" 1/4
5. Cold water inlet	1" 1/2	1" 1/2	1" 1/2	2"	2"	3"
6. Electronic anode-feeler	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
7. Anode	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4
8. Electric heater re-circulation	1" 1/2	1" 1/2	1" 1/2	1" 1/2	1" 1/2	1" 1/2
9. VS DN Drain coil	-	1"	1" 1/4	1" 1/4	1"	1"

# KIT SERPENTINE CBL 1 – CBL 3

EXTRACTABLE HEAT-EXCHANGER KIT FOR VERSION CBL1 - CBL3 Complete with bored flange, copper heat exchanger, upper cap for flange and nuts and bolts
 SR: Spiral finned copper coil-tinned (tank for sanitary water)
 PREASSEMLED ON THE FLANGE



Art.	kW	m²	А	В	C mm	L mm	kg
SR1B	36	1,21	DN 200	3/4"	80	420	10,0
SR2	43	1,80	DN 200	3/4"	80	470	11,7
SR3	62	2,63	DN 200	3/4"	80	580	14,9
SR4	75	3,20	DN 200	3/4"	80	660	17,0
SR5	108	4,54	DN 200	1"	80	750	21,1
SR6	150	6,34	DN 200	1"	80	980	29,0

The length of the coil must be at least 10 cm shorter than the diameter of the storage cylinder.

## STAINLESS STEEL "U" BUNDLE EXCHANGER KIT FOR VERSION CBL1 - CBL3 - CBL DN

- Complete with galvanized head with connections, gaskets and bolts



Exchanger surface m <sup>2</sup>	Flange ø mm	Flange ø mm	Weight kg	Flange bores N0	Connections	Connections wheelbase mm	To install on model
0,5	290	450	10	12	1"	115	CBL1 -CBL3
0,75	290	440	12	12	1"	115	CBL1 -CBL3
1	290	475	14	12	1"	115	CBL1 -CBL3
1,5	290	635	17	12	1"	115	CBL1 -CBL3
2	290	755	19	12	1"	115	CBL1 -CBL3
2	480	600	38	26	2"	200	CBL DN
3	480	720	45	26	2"	200	CBL DN
4	480	735	53	26	2"	200	CBL DN
5	480	750	61	26	2"	200	CBL DN
6	480	700	69	26	2"	200	CBL DN
8	480	915	84	26	2"	200	CBL DN
10	480	1140	100	26	2"	200	CBL DN





"U" BUNDLE EXCHANGER OUTPUT POWER DIAGRAMS OF SPECIFIC POWER IN FUNCTION OF THE TEMPERATURE AND FLOW OF THE EXCHANGER INLET





STEMS MANUFAC

10 m²

6 m<sup>2</sup>

4 m<sup>2</sup>

80

10 m<sup>2</sup>

OLAR S

"U" bundle exchanger

Primary flow m3/h

4 m²

6 m<sup>2</sup>

< 10 > 20 < 10 > 20 < 10 > 20 < 10 > 20



"U" bundle exchanger	3 m²		5 m <sup>2</sup>	2	8 m <sup>2</sup>	
Primary flow m <sup>3</sup> /h	< 7,5	> 15	< 10	> 20	< 10	> 20



Δp (mbar)



# INSTRUCTIONS FOR INSTALLATION AND MAINTENANCE

This manual is an integral part of the tank and must be delivered to the installer / user together with it. The manual must be kept in a safe place near the tank. In case of transfer or sale of the tank, this user and installation manual must be transferred together with it. The user and the installer are required to read this manual carefully in order to comply with the technical instructions for safety and correct operation of the tank. Failure to comply with the instructions below will invalidate all legal and contractual warranty rights. The installation, commissioning, maintenance and deactivation of the equipment must be performed by a qualified technician qualified for the profession. Correct installation and periodic maintenance interventions guarantee a long life for the storage tank.

## INSTALLATION INSTRUCTIONS, COMMISSIONING AND MAINTENANCE

What follows is determinant for the warranty validity.

- 1. The installation and commissioning must:
  - Be executed by a qualified installer.
  - Be provided where necessary, with a pressure reducing valve in entrance.
  - Be provided with a safety valve according to the technical datasheet of the tank.
  - Provide expansion tanks connected at a maximum distance of one meter from the calorifier (see the measuring board of the expansion vessel). The expansion tank must be proportioned to the calorifier's dimensions (the size shall be checked by an expert).
  - Provide washing of any impurities before commissioning that may present in the hydraulic circuit. They can cause corrosion and permanently contaminate the tank.
  - Be provided with filters upstream of the tank to avoid the deposit of heavy particles or processing residues inside the tank.
- 2. Before starting, check the hydraulic seal of the connections and hatches. Apply a torque of 20 Nm for handhole hatches and 40 Nm for manhole to the hatch screws. If some leakage occurs check the assembly of the expansion vessels.
- 3. Install the calorifier in a technical room providing suitable drainage in case of possible liquid leaks from the tank.
- 4. Do not switch on any heat source connected to the tank until it is guaranteed to fill in completely.
- 5. In case of use on the system of materials other than those of the tank, provide for the dielectrical insulation of the different parts. The equipotential ground connection must be made both for the tank and for the pipes connected to it and must be suitably checked in compliance with the regulations in force.
- 6. For the purpose of preventing contamination of the domestic water and altering the anti-freezing mixture of the solar circuits, the pressure of the exchanger is always lower than the pressure of the accumulation. Also, through the automatic control of the differential pressure between the primary and secondary circuits.

SOLE CBL0 - CBL1 - CBL3 - CBL DN

7. In case of freezing danger, the tank and the exchanger must be heated or completely emptied. Even if the tank is not used for a long time, empty the tank. In fact the prolonged stagnation of water in the tank favors internal corrosion and the proliferation of bacteria and microorganisms.

STEMS MANUFAC

- The temperature of the boiler inside must always be <u>under 95°C for GLASSLINE tanks</u> (80°C for the EPOXY RESIN models).
- 9. In order to avoid corrosion, the anodes must be inspected after each 12 months. However, where the water is particularly aggressive, the inspections must be done each 6 months; if the anode diameter in any section is less than 22 mm, it must be replaced and if covered with limestone has to be cleaned.
- 10. The water Langelier Index at the operating temperature, must range from "-0.3" to "+0.3", hardness <110 mg/1 (or within 10°F and 20°F), maximum concentration of chlorides 70 mg/l, minimum conductivity 150 microS/cm.

## DIMENSIONING OF THE EXPANSION TANK:

An expansion tank must be installed with our CBL tanks. The expansion tank is commensurate with the size of the boiler and to the volume of water present in the pipes. It is advisable to divide the expansion volume in more tanks. The dimensioning of expansion tanks must be carried out by a qualified installer or designer.

Туре	Min. size exp. tank	Max. size exp. tank
150	8	12
200	12	18
300	18	25
500	25	50
800	50	80
1000	50	100
1250	80	100
1500	80	140
2000	100	200
3000	150	300

The tanks are produced according to the basic EEC Directives 2014/68/UE (P.E.D.) for the pressure equipment's, as in the art. 4.3.

# SOLE CBL WARRANTY

AR SYSTEMS MANUFACTURE

The guarantee is subjected to the following conditions:

- Installation of CBL calorifiers must be made from a qualified firm/installer
- Furthermore, the tank has to be equipped with safety valve and suitable expansion tank.

Calorifiers by Glassline or Epoxy Resin are subjected to use and maintenance as normally required:

- Temperature and pressure working must be strictly observed
- Examination and replacement of magnesium anode (best every 6 months)
- Langelier water index between -0.3 and +0,3
- Total Hardness <110 mg/l
- Maximum concentration of chlorides 70 mg/l
- Minimum conductivity 150 microS / cm
- pH range 7 8.5

From the guarantee are excluded damages due through:

- Out of specification or improper use of the calorifier.
- Defects caused during transportation or installation.
- Damages caused from no closed gaskets.
- The carbon steel tanks are supplied externally painted for aesthetic purposes only. Any irregularities, cracks or detachment of parts of the paint are not to be attributed to processing defects but are caused by surface alterations due to the high temperature processing of the tanks themselves (enameling in the oven, pickling, welding, etc.). These superficial aspects in no way affect the duration and functionality of the tank which remains fully guaranteed by the manufacturer. Therefore, requests for replacement or compensation relating to this aspect are not accepted.
- Insulation damage detected after boiler installation.
- Rust or humidity on the threads of the connections are natural phenomena that do not affect the functionality of the tank. It is the installer's scope to clean the threads before making the joints.

We exercise the right to reject requires of guarantees if buyer doesn't respect the obligation of current payments. Further requires of compensation, in special way for direct and indirect damages to people or things, can't be acknowledged.

SOLAR SYSTEMS MANUFACTURE

## **APPENDIX**

ELECTRONIC ANODE: connection scheme



DIRECTIVE PARAMETERS 2009 / 125 / CE, Reg. UE 2017 - 1369 - EN 12897

S I Z E (INSULATION)	CAPACITY (L)	NON-SOLAR VOLUME (L)	STANDING LOSS (W)	SPECIFIC LOSS (W / K)	ENERGY CLASS
200 (100 mm Soft PU)	208	95	77	1,71	С
300 (100 mm Soft PU)	285	160	95	2,11	С
500 (100 mm Soft PU)	490	275	115	2,77	С
800 (100 mm Soft PU)	749	420	130	2,89	-
1000 (100 mm Soft PU)	880	490	142	3,16	-
1500 (100 mm Soft PU)	1430	790	162	3,60	-
2000 (100 mm Soft PU)	1950	840	186	4,13	-

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