Enviro Energy Solutions Ltd

Your Gateway to the Sun

EBLH SERIES

HIGH CAPACITY HORIZONTAL TANKS WITH EXTRACTIBLE HEAT EXCHANGERS

GENERAL DATA SHEET

…BECAUSE WITH ENVIROENERGY SOLUTIONS THE SUN SHINES FOR EVERYONE…

V1-1.17

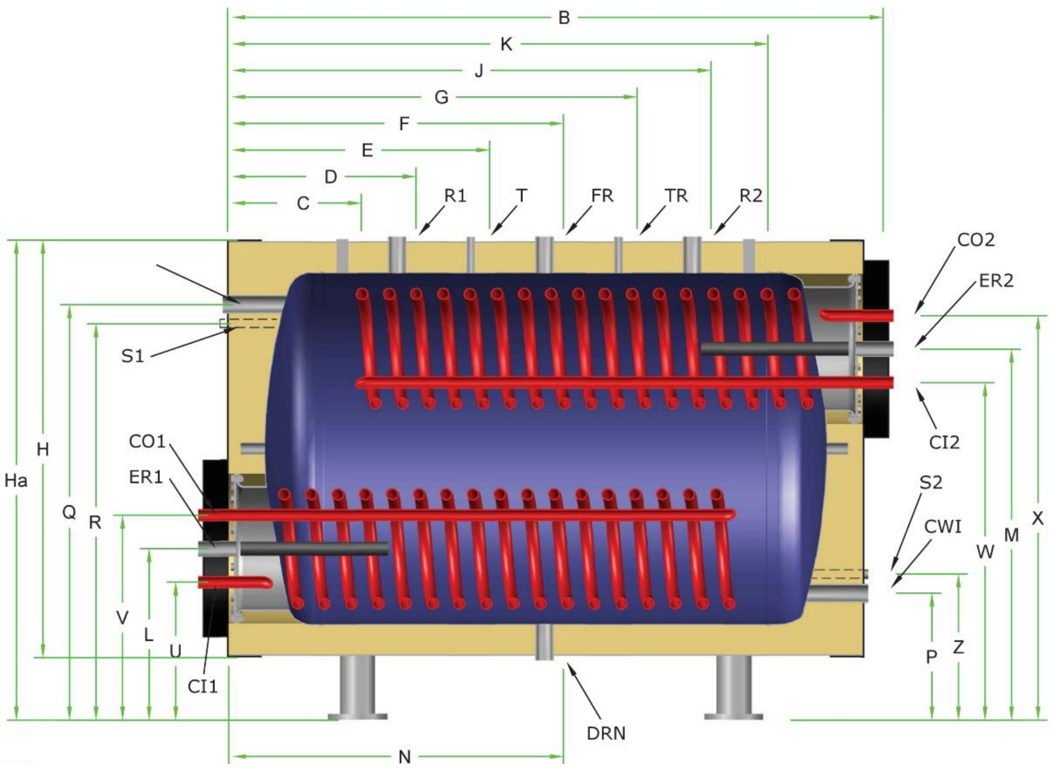
TECHNICAL SPECIFICATIONS

1. TECHNICAL CHARACTERISTICS

- Internal Tank Material: Steel
- Welding Type: Automatic
- Internal Tank Protection: Alimentary quality Epoxy Resin
- Anodic Protection: 4 magnesium rods Ø32 x 500mm
- Maximum Working Pressure: 10 bar
- Water Test Pressure: 15 bar
- Maximum Operating Temperature: 90°C
- Insulation: Removable Polyurethane foam
  thickness 100mm, density 52kg/m3
- Coil: Steel Tube
- Maximum Coil Working pressure: 16 bar
- Coil Test Pressure: 25 bar
- Maximum Coil Working temperature: 130 °C
- Electric Heater: Optional, Power Output Upon Request
- External Cover: Metallic or Soft PVC (color upon request)

EBLH SERIES TANKS WITH 1 OR 2 REMOVABLE HEAT EXCHANGERS, FLANGE AND ELECTRIC ELEMENT OPTIONS								
Model	**EBLH 1000**	**EBLH 1500**	**EBLH 2000**	**EBLH 3000**	**EBLH 4000**	**EBLH 5000**	**EBLH 7000**	**EBLH 9000**
Nominal Volume (Lt)	1000	1500	2000	3000	4000	5000	7000	9000
Actual Volume (Lt)	866	1480	1940	2940	3960	4700	6950	8960
Internal Tank Weight (kg)	390	405	479	808	928	1039	1394	1795
3,2m^2 Heat Exchanger Weight (kg)	78							
5,4m^2 Heat Exchanger Weight (kg)	N/A	109						
7,8m^2 Heat Exchanger Weight (kg)	N/A			154				
External Cover and Insulation Weight (kg)	16	20	24	34	39	45	58	67
Internal Tank Body Thickness (mm)	4	5			6		7	8
Internal Tank Caps Thickness (mm)	4	6			7		8	9
CI1/CO1 and CI2/CO2	1’’F	1’’F	1’’F	1½’’F	1½’’F	1½’’F	1½’’F	1½’’F
Coil Cross Section Ø	1’’	1’’	1’’	1¼’’	1¼’’	1¼’’	1¼’’	1¼’’
Recirculation (R)	2’’	2’’	2’’	3’’	3’’	3’’	3’’	3’’
Cold Water Inlet (CWI)	2’’	2’’	2’’	3’’	3’’	3’’	3’’	3’’
Hot Water Outlet (HWO)	2’’	2’’	2’’	3’’	3’’	3’’	3’’	3’’
Free Outlet (FR)	2’’	2’’	2’’	3’’	3’’	3’’	3’’	3’’
Thermometer (Tr)	½’’	½’’	½’’	½’’	½’’	½’’	½’’	½’’
Thermostat (T)	½’’	½’’	½’’	½’’	½’’	½’’	½’’	½’’
Flange Ø External/Internal (mm)	508/420	508/420	508/420	620/508	620/508	620/508	620/508	620/508
Drain (DRN)	1 ½’’							
Electric Back-up Heating Element (ER1 and ER2)	1 ½’’							

2. DIMMENSIONS



ABREVIATIONS	
CWI	Cold Water Inlet
HWO	Hot Water Outlet
CI1	Coil 1 Inlet
CO1	Coil 1 Outlet
CI2	Coil 2cInlet
CO2	Coil 2 Outlet
S1 / S2	Sensors 1 and 2
T	Thermostat
TR	Thermometer
ER 1 / ER 2	Electric Heating Elements 1 and 2
FR	Free Outlet
DRN	Drain
R	Recirculation

EBLH SERIES TANKS DIMENSSION								
	EBGLH 1000	EBGLH 1500	EBGLH 2000	EBGLH 3000	EBGLH 4000	EBGLH 5000	EBGLH 7000	EBGLH 9000
B	2150	2150	2150	2700	2700	2700	3280	3400
C	389	389	389	531	530	530	951	1013
D	575	575	575	684	684	684	806	867
E	825	825	825	1017	1017	1017	1223	1283
F	1075	1075	1075	1350	1350	1350	1640	1700
G	1325	1325	1325	1683	1683	1683	2057	2117
J	1575	1575	1575	2016	2016	2016	2474	2533
K	1759	1759	1759	2170	2169	2168	2322	2387
H	1000	1300	1400	1500	1700	1800	2000	2200
Ha	1200	1500	1600	1700	1900	2000	2200	2400
Q	891	1189	1290	1286	1592	1696	1890	2089
R	865	1163	1274	1259	1566	1670	1864	2062
V	523	569	582	640	625	629	631	632
L	418	462	470	533	518	522	624	525
U	313	348	368	420	405	409	510	412
P	309	310	311	406	302	304	303	303
Z	335	337	338	432	320	331	329	329
W	675	931	1028	1060	1260	1363	1561	1760
M	780	1038	1130	1173	1373	1471	1668	1867
X	885	1152	1232	1275	1480	1584	1781	1980

3. COIL HEAT EXCHANGER CHARACTERISTICS

COIL HEAT EXCHANGER POSSIBLE COMBINATIONS			
Tank Model	Bottom H.E.	Upper H.E.	Total H.E. Surface
1000lt	3,2m^2	3,2m^2	6,4m^2
1500lt	3,2m^2	3,2m^2	6,4m^2
	5,4m^2	3,2m^2	8,6m^2
2000lt	3,2m^2	3,2m^2	6,4m^2
	5,4m^2	3,2m^2	8,6m^2
3000lt	3,2m^2	3,2m^2	6,4m^2
	5,4m^2	3,2m^2	8,6m^2
	7,8m^2	3,2m^2	11m^2
4000lt	3,2m^2	3,2m^2	6,4m^2
	5,4m^2	3,2m^2	8,6m^2
	7,8m^2	3,2m^2	11m^2
5000lt	3,2m^2	3,2m^2	6,4m^2
	5,4m^2	3,2m^2	8,6m^2
	7,8m^2	3,2m^2	11m^2
7000lt	5,4m^2	3,2m^2	8,6m^2
	7,8m^2	3,2m^2	11m^2
9000lt	5,4m^2	3,2m^2	8,6m^2
	7,8m^2	3,2m^2	11m^2

COIL HEAT EXCHANGER EFFICIENCIES							
Tank Model	Flow Rate	Bottom H.E. 3,2m^2	Upper H.E. 3,2m^2	Bottom H.E. 5,4m^2	Upper H.E. 5,4m^2	Bottom H.E. 7,8m^2	Upper H.E. 7,8m^2
1000lt	1800 Lt/h	49,10kW	48,10kW	---	---	---	---
	2600 Lt/h	55,20kW	54,50kW	---	---	---	---
	3900 Lt/h	62,20kW	61,40kW	---	---	---	---
1500lt	1800 Lt/h	49,10kW	48,10kW	65,30kW	64,60kW	---	---
	2600 Lt/h	55,20kW	54,50kW	78,40kW	79,20kW	---	---
	3900 Lt/h	62,20kW	61,40kW	91,10kW	90,90kW	---	---
2000lt	1800 Lt/h	47,80kW	47,80kW	65,00kW	64,70kW	---	---
	2600 Lt/h	55,10kW	54,95kW	77,95kW	78,50kW	---	---
	3900 Lt/h	61,10kW	61,10kW	90,50kW	91,60kW	---	---
3000lt	3000 Lt/h	57,30kW	57,20kW	82,10kW	82,00kW	104,60Kw	104,80Kw
	4000 Lt/h	62,20kW	62,15kW	91,50kW	90,60kW	119,40Kw	119,50Kw
	5000 Lt/h	64,70kW	64,90kW	98,30kW	98,80kW	130,00Kw	129,60Kw
4000lt	3000 Lt/h	57,30kW	57,20kW	82,30kW	82,50kW	104,60Kw	104,80Kw
	4000 Lt/h	62,20kW	62,15kW	91,45kW	91,55kW	119,40Kw	119,50Kw
	5000 Lt/h	64,70kW	64,90kW	97,30kW	96,80kW	130,00Kw	129,60Kw
5000lt	3000 Lt/h	57,30kW	57,20kW	81,95kW	82,15kW	104,60Kw	104,80Kw
	4000 Lt/h	62,20kW	62,15kW	91,30kW	91,20kW	119,40Kw	119,50Kw
	5000 Lt/h	64,70kW	64,90kW	97,50kW	97,90kW	130,00Kw	129,60Kw
7000lt	3000 Lt/h	57,30kW	57,20kW	---	---	104,60Kw	104,80Kw
	4000 Lt/h	62,20kW	62,15kW	---	---	119,40Kw	119,50Kw
	5000 Lt/h	64,70kW	64,90kW	---	---	130,00Kw	129,60Kw
9000lt	3000 Lt/h	58,50kW	58,10kW	---	---	104,70Kw	105,40Kw
	4500 Lt/h	65,40kW	65,25kW	---	---	125,30Kw	124,20Kw
	6000 Lt/h	70,60kW	70,10kW	---	---	138,60Kw	137,30Kw

- Heat Exchanger Efficiencies for DHW Heating from 15°C to 60°C
- Heat Exchanger Inlet Temperatures 80°C

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We do not inherit the earth from our fathers, We borrow it from our children..."

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