



The Fully Integrated – Certified Proposal!

Warranty **5 years**

Technical Characteristics

Domestic Hot Water & Buffer Tanks



Green Line



TECHNICAL CHARACTERISTICS BUFFER TANKS

150L – 2000L BUFFER TANKS

- Without exchanger coil.....3
- With 1 exchanger coil5
- With 2 exchangers coils.....7

300L – 2000L BUFFER TANKS WITH STAINLESS STEEL COIL

- Without exchanger coil.....9
- With 1 exchanger coils.....11
- With 2 exchangers coils.....13

300L – 2000L TANK IN TANK

- Without exchanger coil.....15
- With 1 exchanger coil.....17
- With 2 exchanger coils.....19

CERTIFICATIONS CE.....53

BUFFER TANK

WITHOUT EXCHANGER COIL BAC-0
150L – 2000L

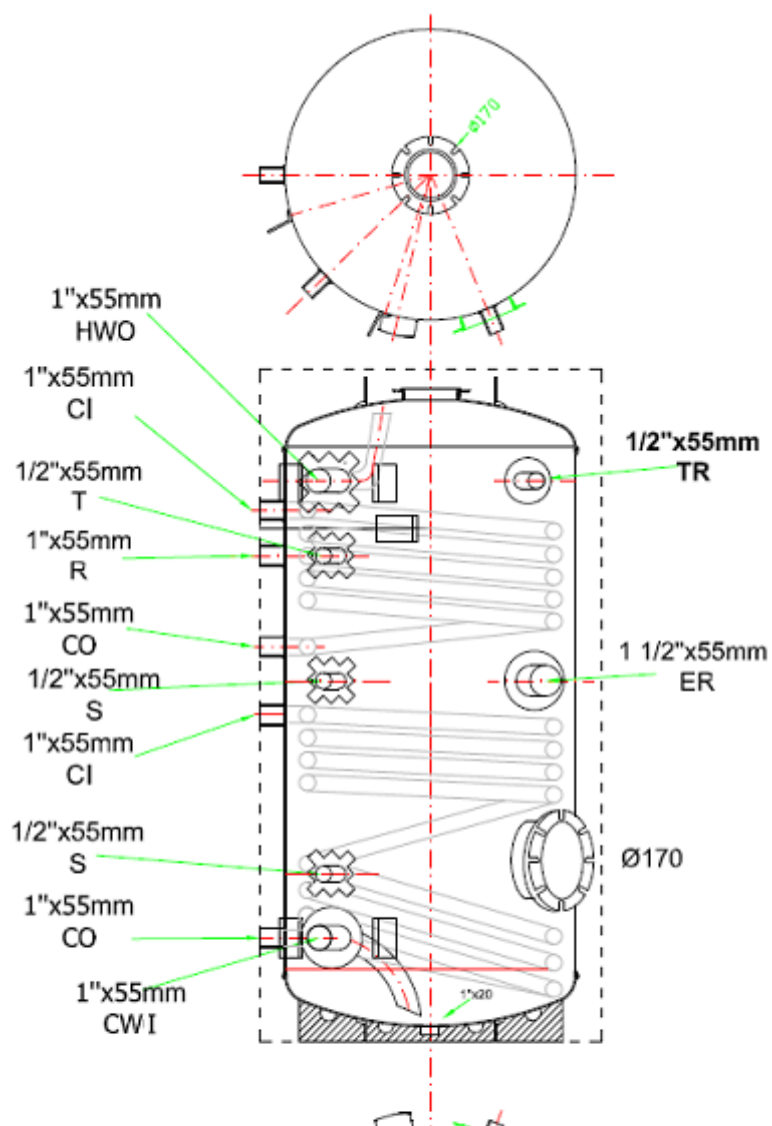
Material: Steel sheet
Welding: Automatic metal welding
Operation pressure: 3 bar
Maximum water test pressure: 4 bar
Maximum operating pressure: 95° C
Insulation: Polyurethane foam (52 kg/m³)
Electrical resistance: Upon request



Tank type	150L	200L	300L	500L	750L	1000L	1500L	2000L
Code	BAC-0-150	BAC-0-200	BAC-0-300	BAC-0-500	BAC-0-750	BAC-0-1000	BAC-0-1500	BAC-0-2000
Tank capacity [L]	134	205	296	492	746	882	1539	1831
Insulation type / Thickness [mm]	SOLID POLYURETHANE			REMOVABLE SOFT POLYURETHANE				
	60	60	60	100	100	100	100	100
Sheet thickness: Body / caps [mm/mm]	2,0 / 2,0	2,0 / 2,0	2,5 / 2,5	2,5 / 2,5	3,0 / 3,0	3,0 / 4,0	4,0 / 4,0	4,0 / 5,0
Operation pressure tank	3 bar							
Maximum pressure/temperature tank	4 bar / 95° C							
Maximum pressure/temperature exchanger	16 bar / 160° C							

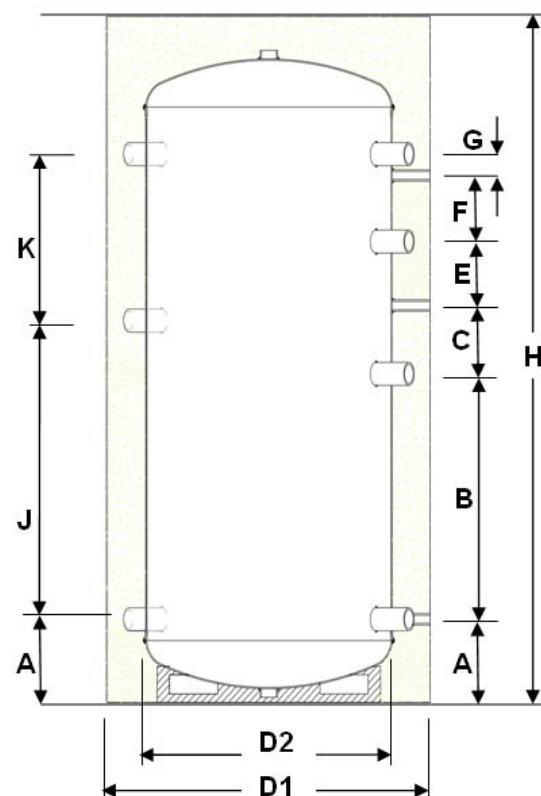
Hydraulic installation layout

HWO	Hot Water Output
CWI	Cold Water Input
CI	Coil Input
CO	Coil Output
R	Recirculation
ER	Electrical resistance
A''	Anode - Cap
TR	Thermometer
T	Thermostat
F	Boiler Cleaning Inlet
FR	Free spot
VEN	Ventilation
S	Sensor



In the case that there is one or no exchanger, the supplies remain at the same height and place with a free supply throughout the tank.

	150L	200L	300L	500L	750L	1000L	1500L	2000L
D1	Ø560	Ø600	Ø630	Ø840	Ø1010	Ø1010	Ø1300	Ø1400
D2	Ø450	Ø480	Ø520	Ø640	Ø810	Ø810	Ø1100	Ø1200
H	1080	1400	1650	1620	1820	2070	1970	1970
A	232	216	208	195	350	350	350	350
B	200	375	575	575	575	680	680	680
C	100	160	160	160	160	235	235	235
E	60	150	150	150	150	120	120	120
F	140	155	155	155	155	175	175	175
G	100	50	50	50	50	130	130	130
J	400	500	700	700	700	830	830	830
K	200	390	390	390	390	510	510	510



BUFFER TANKS

WITH 1 EXCHANGER COIL BAC-1
150L – 2000L

Material: Steel sheet
Welding: Automatic metal welding
Operation pressure: 3 bar
Maximum water test pressure: 4 bar
Maximum operating pressure: 95° C
Insulation: Polyurethane foam (52 kg/m³)
Electrical resistance: Upon request

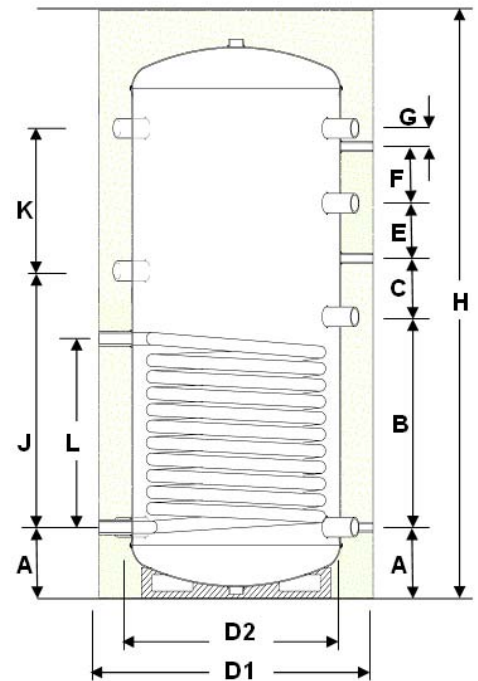
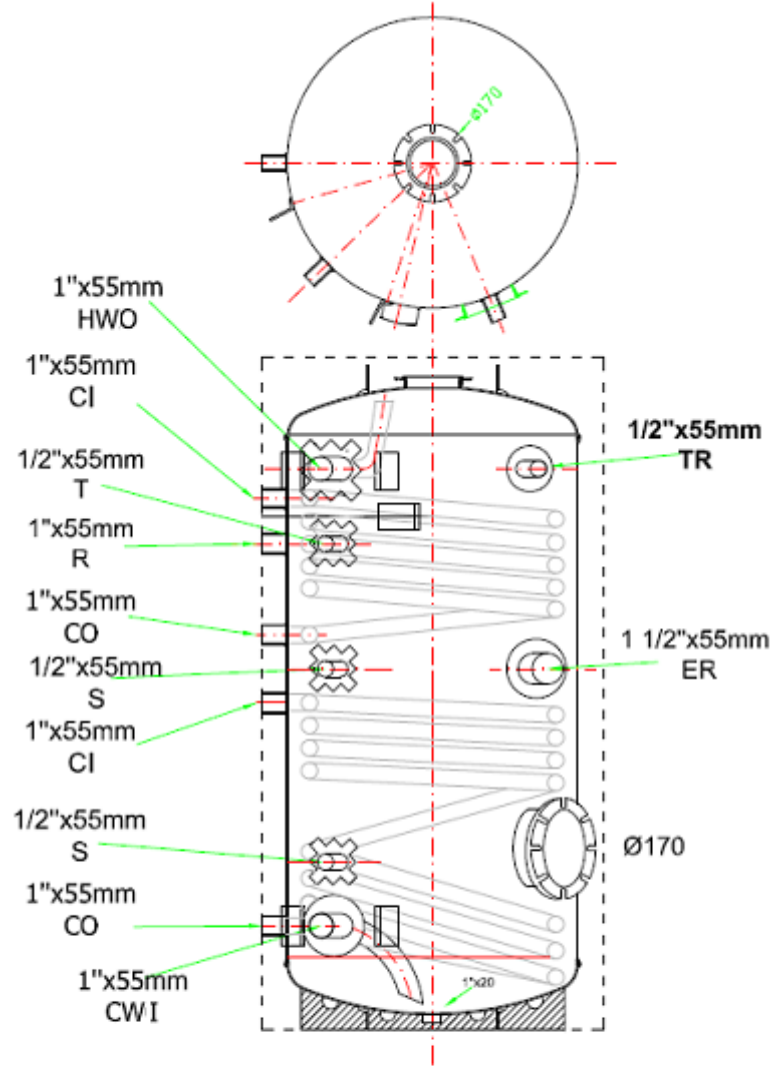
In the case that there is one or no exchanger, the supplies remain at the same height and place with a free supply throughout the tank.



Tank type		150L	200L	300L	500L	750L	1000L	1500L	2000L
Code		BAC-1-150	BAC-1-200	BAC-1-300	BAC-1-500	BAC-1-750	BAC-1-1000	BAC-1-1500	BAC-1-2000
Tank capacity [L]		134	205	296	492	746	882	1539	1831
Insulation type / Thickness [mm]		SOLID POLYURETHANE			REMOVABLE SOFT POLYURETHANE				
		60	60	60	100	100	100	100	100
Exchanger capacity [L]		4,6	5,8	7,4	13,5	15,4	18,5	19,7	22,2
Exchanger volume [L]		6,4	8,1	10,3	18,8	21,4	25,7	27,4	30,8
Exchanger surface [m2]		0,75	0,95	1,2	2,2	2,5	3,0	3,2	3,6
Pressure drop exchanger [bar] For Tm=60 °C & Flow:	1000L/h	0,008	0,011	0,014	0,025	0,028	0,034	0,036	0,040
	2000L/h	0,033	0,042	0,052	0,095	0,107	0,128	0,137	0,150
	3000L/h	0,733	0,092	0,115	0,208	0,236	0,280	0,300	0,340
Exchanger performance [KW] For Tin=80 °C, temperature water tank from 15°C to 60°C:	1000L/h	14,0	17,0	20,7	30,4	33,1	36,5	36,1	36,6
	2000L/h	16,9	20,8	25,2	40,7	45,1	51,4	53,2	57,8
	3000L/h	18,3	22,2	27,4	45,5	51,0	59,1	71,3	67,0
Sheet thickness: Body / caps [mm/mm]		2,0/ 2,0	2,0/ 2,0	2,5/ 2,5	2,5/ 2,5	3,0/ 3,0	3,0/ 3,0	4,0/ 4,0	4,0/ 5,0
Operation pressure tank		3 bar							
Maximum pressure/temperature tank		4 bar / 95° C							
Maximum pressure/temperature exchanger		16 bar / 160° C							

Hydraulic installation layout

HWO	Hot Water Output
CWI	Cold Water Input
CI	Coil Input
CO	Coil Output
R	Recirculation
ER	Electrical resistance
A''	Anode - Cap
TR	Thermometer
T	Thermostat
F	Boiler Cleaning Inlet
FR	Free spot
VEN	Ventilation
S	Sensor



	150L	200L	300L	500L	750L	1000L	1500L	2000L
D1-Ø	560	600	630	840	1010	1010	1300	1400
D2-Ø	450	480	520	640	810	810	1100	1200
H	1080	1400	1650	1620	1820	2070	1970	1970
A	232	216	208	195	350	350	350	350
B	200	375	575	575	575	680	680	680
C	100	160	160	160	160	235	235	235
E	60	150	150	150	150	120	120	120
F	140	155	155	155	155	175	175	175
G	100	50	50	50	50	130	130	130
J	400	500	700	700	700	830	830	830
K	200	390	390	390	390	510	510	510
L	300	460	515	515	515	620	620	620

Material: Steel sheet
Welding: Automatic metal welding
Operation pressure: 3 bar
Maximum water test pressure: 4 bar
Maximum operating pressure: 95° C
Insulation: Polyurethane foam (52 kg/m³)
Electrical resistance: Upon request

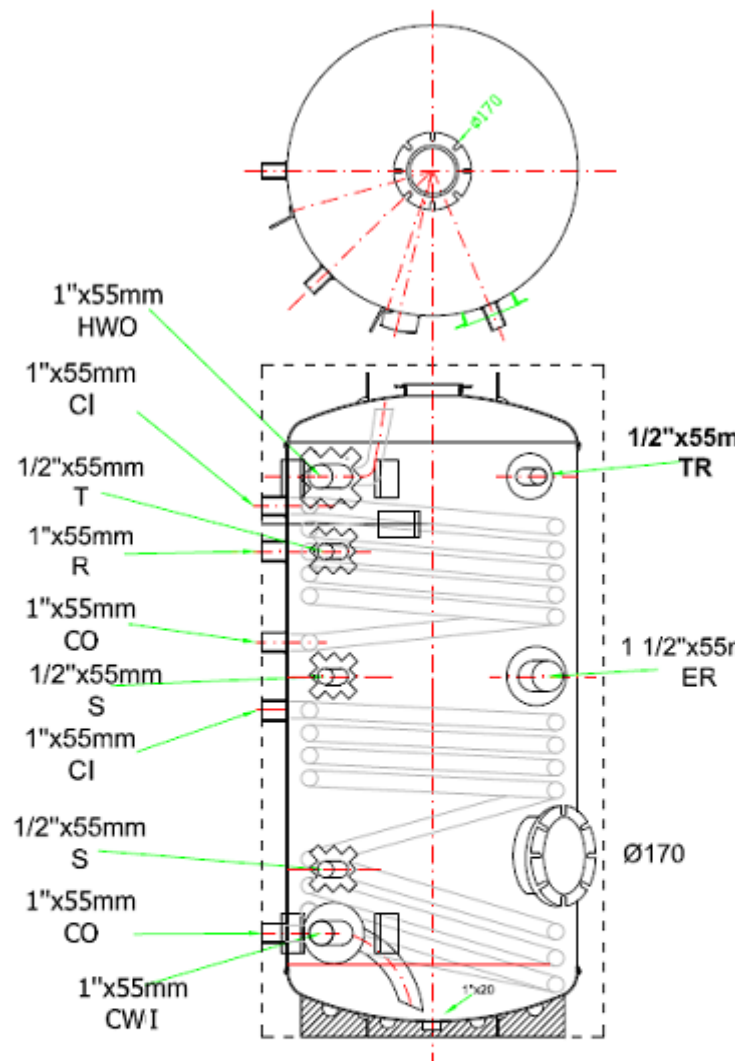
In the case that there is one or no exchanger, the supplies remain at the same height and place with a free supply throughout the tank.



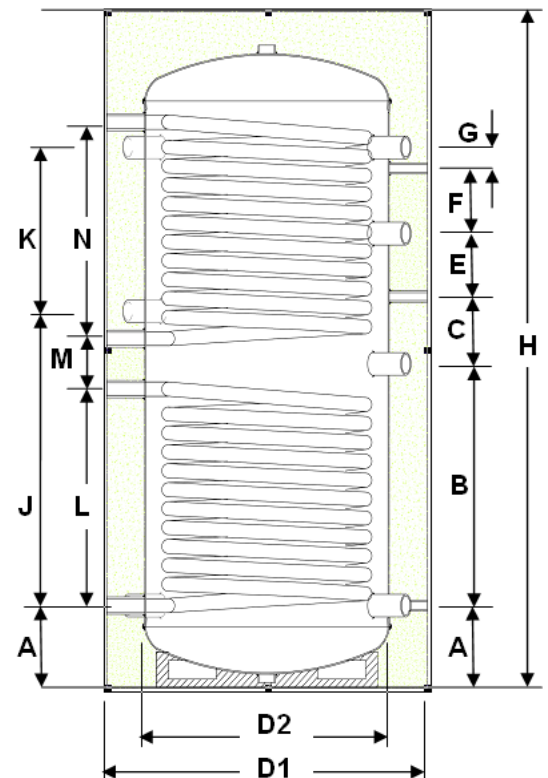
Tank type	150L	200L	300L	500L	750L	1000 L	1500 L	2000 L	
Code	BAC-2-150	BAC-2-200	BAC-2-300	BAC-2-500	BAC-2-750	BAC-2-1000	BAC-2-1500	BAC-2-2000	
Tank capacity [L]	134	205	296	492	746	882	1539	1831	
Insulation type / Thickness [mm]	SOLID POLYURETHANE			REMOVABLE SOFT POLYURETHANE					
	60	60	60	100	100	100	100	100	
Capacity upper exchanger [L]	2,5	4,6	7,4	13,5	15,4	18,5	19,7	22,2	
Capacity lower exchanger [L]	4,6	5,8	7,4	13,5	15,4	18,5	19,7	22,2	
Volume upper exchanger [L]	3,4	6,4	10,3	18,8	21,4	25,7	27,4	30,8	
Volume lower exchanger [L]	6,4	8,1	10,3	18,8	21,4	25,7	27,4	30,8	
Surface upper exchanger [m²]	0,45	0,75	1,2	2,2	2,5	3,0	3,2	3,6	
Surface lower exchanger [m²]	0,75	0,95	1,2	2,2	2,5	3,0	3,2	3,6	
Pressure drop lower exchanger [bar] For Tm=60 °C & Flow:	1000L/h	0,008	0,011	0,014	0,025	0,028	0,034	0,036	0,040
	2000L/h	0,033	0,042	0,052	0,095	0,107	0,128	0,137	0,150
	3000L/h	0,733	0,092	0,115	0,208	0,236	0,280	0,300	0,340
Performance lower exchanger [KW] For Tin=80 °C, temperature water tank from 15°C - 60°C:	1000L/h	14,0	17,0	20,7	30,4	33,1	36,5	36,1	36,6
	2000L/h	16,9	20,8	25,2	40,7	45,1	51,4	53,2	57,8
	3000L/h	18,3	22,2	27,4	45,5	51,0	59,1	71,3	67,0
Sheet thickness: Body / caps [mm/mm]	2,0/ 2,0	2,0/ 2,0	2,5/ 2,5	2,5/ 2,5	3,0/ 3,0	3,0/ 4,0	4,0/ 4,0	4,0/ 5,0	
Operation pressure tank	3 bar								
Maximum pressure/temperature tank	4 bar / 95° C								
Maximum pressure/temperature exchanger	16bar / 160° C								

Hydraulic installation layout

HWO	Hot Water Output
CWI	Cold Water Input
CI	Coil Input
CO	Coil Output
R	Recirculation
ER	Electrical resistance
A''	Anode - Cap
TR	Thermometer
T	Thermostat
F	Boiler Cleaning Inlet
FR	Free spot
VEN	Ventilation
S	Sensor



	150L	200L	300L	500L	750L	1000L	1500L	2000L
D1-\varnothing	560	600	630	840	1010	1010	1300	1400
D2-\varnothing	450	480	520	640	810	810	1100	1200
H	1080	1400	1650	1620	1820	2070	1970	1970
A	232	216	208	195	350	350	350	350
B	200	375	575	575	575	680	680	680
C	100	160	160	160	160	235	235	235
E	60	150	150	150	150	120	120	120
F	140	155	155	155	155	175	175	175
G	100	50	50	50	50	130	130	130
J	400	500	700	700	700	830	830	830
K	200	390	390	390	390	510	510	510
L	300	460	515	515	515	620	620	620
M	120	120	120	120	120	120	120	120
N	180	300	515	515	515	620	620	620



BUFFER TANKS (STAINLESS STEEL COIL) WITHOUT EXCHANGER BAC-0-CI 500L – 2000L

Material: Steel sheet
Welding: Automatic metal welding
Operation pressure: 3 bar
Maximum water test pressure: 4 bar
Maximum operating pressure: 95° C
Insulation: Polyurethane foam (52 kg/m³)
Electrical resistance: Upon request

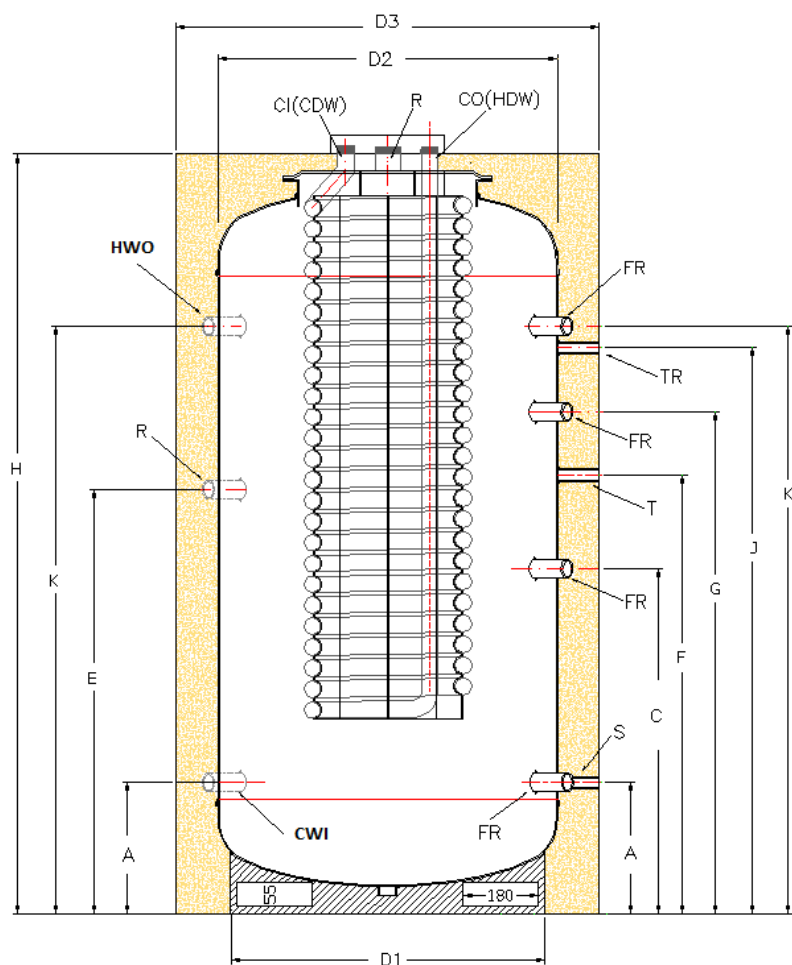
In the case that there is one or no exchanger, the supplies remain at the same height and place with a free supply throughout the tank.



Tank type	500L	750L	1000L	1500L	2000L
Code	BAC-0-CI-500	BAC-0-CI-750	BAC-0-CI-1000	BAC-0-CI-1500	BAC-0-CI-2000
Tank capacity [L]	492	746	882	1539	1831
Coil length [m]	25 / 30	25 / 30	25 / 30	25 / 30	25 / 30
Coil capacity [L]	28,32 / 33,90	28,32 / 33,90	28,32 / 33,90	28,32 / 33,90	28,32 / 33,90
Coil surface [m ²]	6,24 / 7,4	6,24 / 7,4	6,24 / 7,4	6,24 / 7,4	6,24 / 7,4
Coil weight [kg]	9 / 10,8	9 / 10,8	9 / 10,8	9 / 10,8	9 / 10,8
Sheet thickness [mm]	2,5	3	3	4	4
Tank weight [kg]	84,5	117	132,8	267	302,2
Total weight [kg]	93,5 / 95,3	126 / 127,8	141,8 / 143,6	276 / 277,8	311,2 / 313
Maximum coil pressure [bar]	12	12	12	12	12
Maximum coil temperature [°C]	95	95	95	95	95
Insulation [mm]	100	100	100	100	100

Hydraulic installation dimensions

HWO	Hot Water Output
CWI	Cold Water Input
CI	Coil Input
CO	Coil Output
R	Recirculation
ER	Electrical resistance
A''	Anode - Cap
TR	Thermometer
T	Thermostat
F	Boiler Cleaning Inlet
FR	Free spot
VEN	Ventilation
S	Sensor



[mm]	500L	750L	1000L	1500L	2000L
A	315	315	320	320	320
B	-	-	-	-	-
C	825	825	990	990	990
D1	Ø580	Ø750	Ø750	Ø1040	Ø1140
D2	Ø640	Ø810	Ø810	Ø1100	Ø1200
D3	Ø840	Ø1010	Ø1010	Ø1300	Ø1400
E	1015	1015	1190	1190	1190
F	1050	1050	1235	1235	1235
G	1200	1200	1390	1390	1390
H	1580	1820	2070	1970	1970
J	1355	1355	1570	1570	1570
K	1405	1405	1630	1630	1630

BUFFER TANKS (STAINLESS STEEL COIL)

WITH 1 EXCHANGER COIL BAC-1-CI
500L – 2000L

Material: Steel sheet
Welding: Automatic metal welding
Operation pressure: 3 bar
Maximum water test pressure: 4 bar
Maximum operating pressure: 95° C
Insulation: Polyurethane foam (52 kg/m³)
Electrical resistance: Upon request

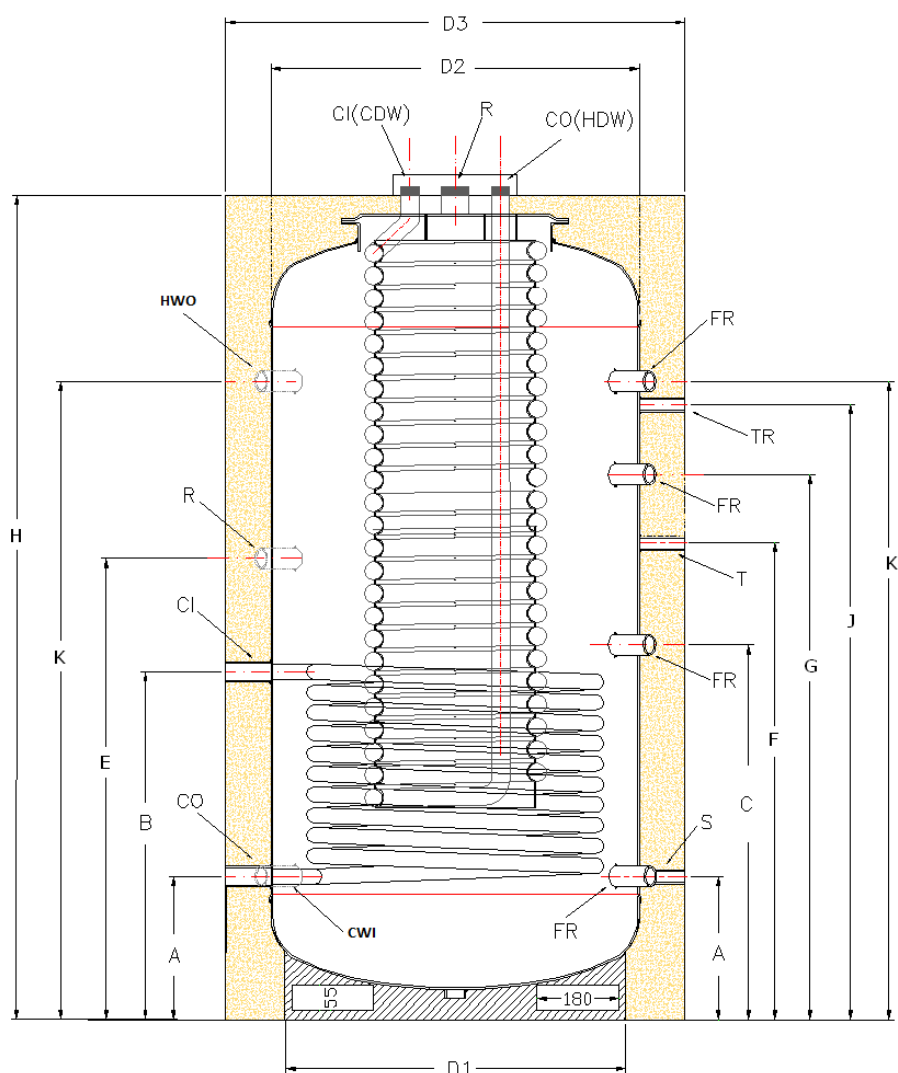
In the case that there is one or no exchanger, the supplies remain at the same height and place with a free supply throughout the tank.



Tank type	500L	750L	1000L	1500L	2000L
Code	BAC-1-CI-500	BAC-1-CI-750	BAC-1-CI-1000	BAC-1-CI-1500	BAC-1-CI-2000
Tank capacity [L]	492	746	882	1539	1831
Exchanger capacity [L]	16,2	19,7	22	27,2	29,4
Coil length [m]	25 / 30	25 / 30	25 / 30	25 / 30	25 / 30
Coil capacity [L]	28,32 / 33,90	28,32 / 33,90	28,32 / 33,90	28,32 / 33,90	28,32 / 33,90
Exchanger surface [m2]	2,2	2,7	3,0	3,7	4,0
Coil surface [m2]	6,24 / 7,4	6,24 / 7,4	6,24 / 7,4	6,24 / 7,4	6,24 / 7,4
Exchanger weight [kg]	33,35	41,2	46	57,1	60,3
Coil weight [kg]	9 / 10,8	9 / 10,8	9 / 10,8	9 / 10,8	9 / 10,8
Sheet thickness [mm]	2,5	3	3	4	4
Tank weight [kg]	84,5	117	132,8	267	302,2
Total weight [kg]	126,85 / 128,65	167,2 / 169	187,8 [189,6	333,1 / 334,9	371,5 / 373,3
Maximum coil pressure [bar]	12	12	12	12	12
Maximum exchanger pressure [bar]	16	16	16	16	16
Maximum coil temperature [°C]	95	95	95	95	95
Maximum exchanger temperature [°C]	160	160	160	160	160
Insulation [mm]	100	100	100	100	100

Hydraulic installation dimensions

HWO	Hot Water Output
CWI	Cold Water Input
CI	Coil Input
CO	Coil Output
R	Recirculation
ER	Electrical resistance
A''	Anode - Cap
TR	Thermometer
T	Thermostat
F	Boiler Cleaning Inlet
FR	Free spot
VEN	Ventilation
S	Sensor



[mm]	500L	750L	1000L	1500L	2000L
A	315	315	320	320	320
B	770	770	820	820	820
C	825	825	990	990	990
D1	Ø580	Ø750	Ø750	Ø1040	Ø1140
D2	Ø640	Ø810	Ø810	Ø1100	Ø1200
D3	Ø840	Ø1010	Ø1010	Ø1300	Ø1400
E	1015	1015	1190	1190	1190
F	1050	1050	1235	1235	1235
G	1200	1200	1390	1390	1390
H	1580	1820	2070	1970	1970
J	1355	1355	1570	1570	1570
K	1405	1405	1630	1630	1630

BUFFER TANKS (STAINLESS STEEL COIL)

WITH 2 EXCHANGERS COIL BAC-2-CI
500L – 2000L

Material: Steel sheet
Welding: Automatic metal welding
Operation pressure: 3 bar
Maximum water test pressure: 4 bar
Maximum operating pressure: 95° C
Insulation: Polyurethane foam (52 kg/m³)
Electrical resistance: Upon request

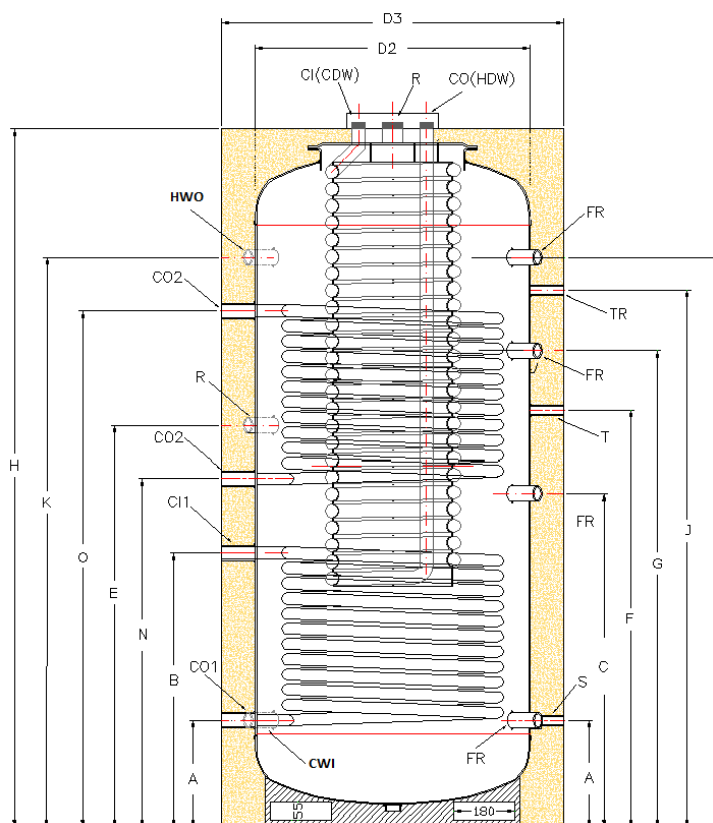
In the case that there is one or no exchanger, the supplies remain at the same height and place with a free supply throughout the tank,



Tank type	500L	750L	1000L	1500L	2000L
Code	BAC-2-CI-500	BAC-2-CI-750	BAC-2-CI-1000	BAC-2-CI-1500	BAC-2-CI-2000
Tank capacity [L]	492	746	882	1539	1831
Exchanger capacity [L]	16,2 / 16,2	19,7 / 19,7	22 / 22	18,4 / 27,2	19,8 / 29,4
Coil length [m]	25 / 30	25 / 30	25 / 30	25 / 30	25 / 30
Coil capacity [L]	28,32 / 33,90	28,32 / 33,90	28,32 / 33,90	28,32 / 33,90	28,32 / 33,90
Exchanger surface [m2]	2,2 / 2,2	2,7 / 2,7	3,0 / 3,0	2,5 / 3,7	2,7 / 4,0
Coil surface [m2]	6,24 / 7,4	6,24 / 7,4	6,24 / 7,4	6,24 / 7,4	6,24 / 7,4
Exchanger weight [kg]	33,35 / 33,35	41,2 / 41,2	46 / 46	38,1 / 57,1	41,3 / 60,3
Coil weight [kg]	9 / 10,8	9 / 10,8	9 / 10,8	9 / 10,8	9 / 10,8
Sheet thickness [mm]	2,5	3	3	4	4
Tank weight [kg]	84,5	117	132,8	267	302,2
Total weight [kg]	160,20 / 162	208,4 / 210,2	233,8 / 235,6	371,20 / 373	412,8 / 414,60
Maximum coil pressure [bar]	12	12	12	12	12
Maximum exchanger pressure [bar]	16	16	16	16	16
Maximum coil temperature [°C]	95	95	95	95	95
Maximum exchanger temperature [°C]	160	160	160	160	160
Insulation [mm]	100	100	100	100	100

Hydraulic installation dimensions

HWO	Hot Water Output
CWI	Cold Water Input
CI	Coil Input
CO	Coil Output
R	Recirculation
ER	Electrical resistance
A''	Anode - Cap
TR	Thermometer
T	Thermostat
F	Boiler Cleaning Inlet
FR	Free spot
VEN	Ventilation
S	Sensor



[mm]	500L	750L	1000L	1500L	2000L
A	315	315	320	320	320
B	770	770	820	820	820
N	865	900	1040	1040	1040
C	825	825	990	990	990
D1	Ø580	Ø750	Ø750	Ø1040	Ø1140
D2	Ø640	Ø810	Ø810	Ø1100	Ø1200
D3	Ø840	Ø1010	Ø1010	Ø1300	Ø1400
E	1015	1015	1190	1190	1190
O	1315	1355	1540	1540	1540
F	1050	1050	1235	1235	1235
G	1200	1200	1390	1390	1390
H	1580	1820	2070	1970	1970
J	1355	1355	1570	1570	1570
K	1405	1405	1630	1630	1630

BUFFER TANKS (TANK IN TANK)

WITHOUT EXCHANGER COIL
500L – 2000L

Material: Steel sheet
Welding: Automatic metal welding
Operation pressure: 3 bar
Maximum water test pressure: 4 bar
Maximum operating pressure: 95° C
Insulation: Polyurethane foam (52 kg/m³)
Electrical resistance: Upon request

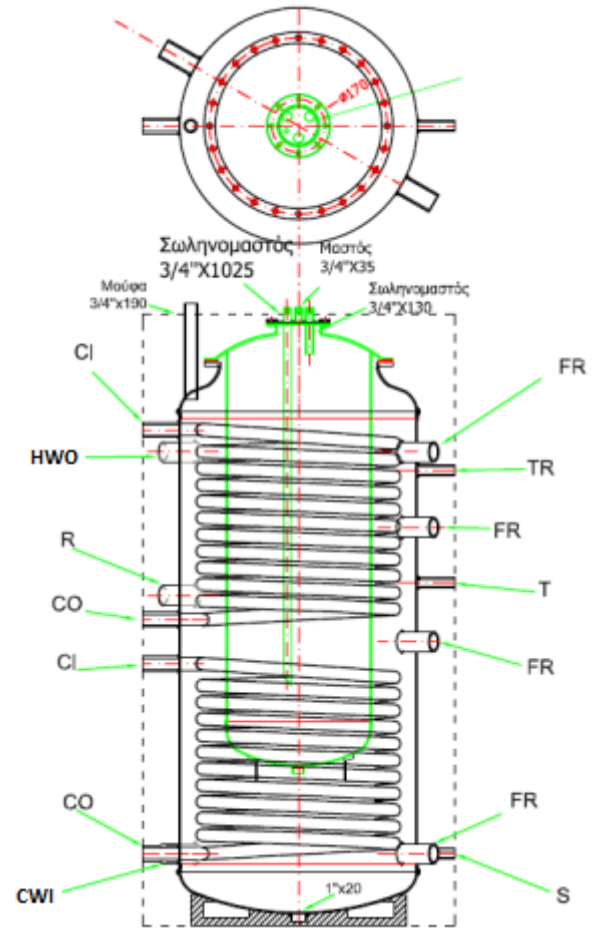
In the case that there is one or no exchanger, the supplies remain at the same height and place with a free supply throughout the tank.



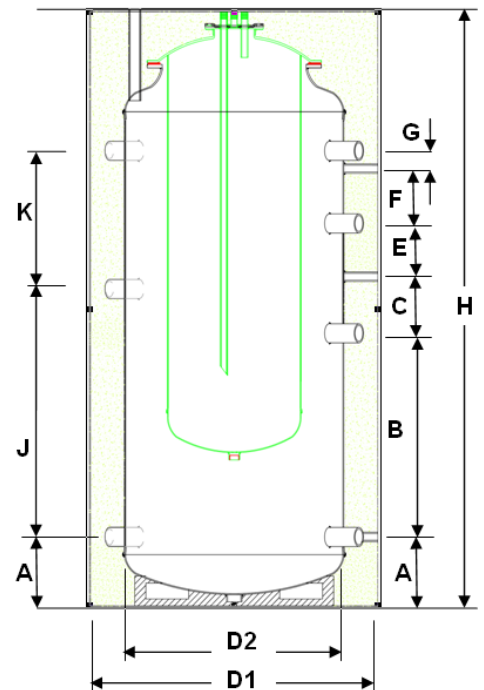
Tank type	500L	750L	1000L	1500L	2000L
Code	BAC-2-500	BAC-2-750	BAC-2-1000	BAC-2-1500	BAC-2-2000
Tank capacity [L]	492	746	882	1539	1831
Tank capacity ZNX [L]	150	150	150	182	182
Insulation type / Thickness [mm]	REMOVABLE SOFT POLYURETHANE				
	100	100	100	100	100
Sheet thickness: Body / caps [mm/mm]	2,0 / 2,0	3,0 / 3,0	3,0 / 3,0	4,0 / 4,0	4,0/ 5,0
Operation pressure tank	3 bar				
Maximum pressure/temperature tank	4 bar / 95° C				
Maximum pressure/temperature exchanger	16bar / 160° C				

Hydraulic installation layout

	Description	500L – 1000L	1500L – 2000L
HWO	Hot Water Output	1 1/2" x 100mm	3" x 100mm
CWI	Cold Water Input	1 1/2" x 100mm	3" x 100mm
CI	Coil Input	1" x 100mm	1" x 100mm
CO	Coil Output	1" x 100mm	1" x 100mm
R	Recirculation	1 1/2" x 100mm	3" x 100mm
ER	Electrical resistance		
A''	Anode - Cap		
TR	Thermometer	1" x 100mm	1/2" x 100mm
T	Thermostat	1" x 100mm	1/2" x 100mm
F	Boiler Cleaning Inlet		
FR	Free spot	1 1/2" x 100mm	3" x 100mm
VEN	Ventilation		
S	Sensor	1" x 100mm	1/2" x 100mm



[mm]	500L	750L	1000L	1500L	2000L
D1-Ø	840	1010	1010	1300	1400
D2-Ø	640	810	810	1100	1200
H	1690	1890	2140	2040	2040
A	195	350	350	350	350
B	575	575	680	680	680
C	160	160	235	235	235
E	150	150	120	120	120
F	155	155	175	175	175
G	50	50	130	130	130
J	700	700	830	830	830
K	390	390	510	510	510



BUFFER TANKS (TANK IN TANK) WITH 1 EXCHANGER COIL BAC-1-TT 500L – 2000L

Material: Steel sheet
Welding: Automatic metal welding
Operation pressure: 3 bar
Maximum water test pressure: 4 bar
Maximum operating pressure: 95° C
Insulation: Polyurethane foam (52 kg/m³)
Electrical resistance: Upon request

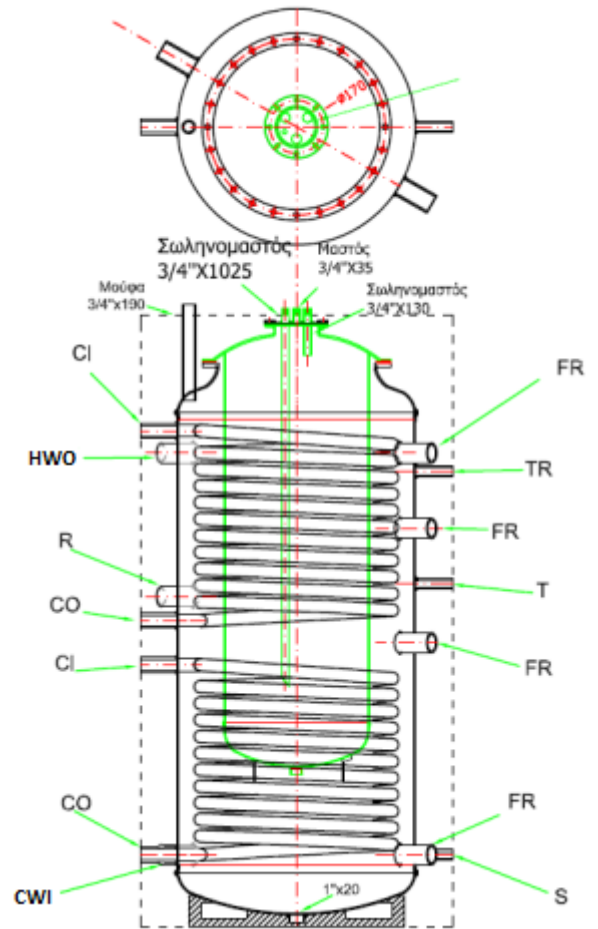
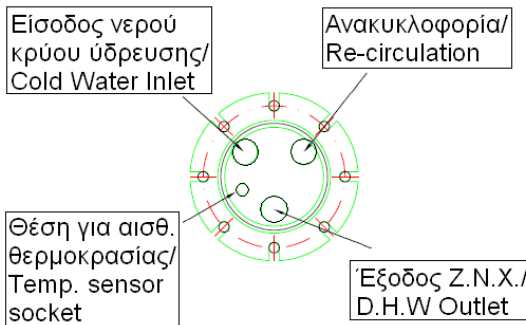
In the case that there is one or no exchanger, the supplies remain at the same height and place with a free supply throughout the tank.



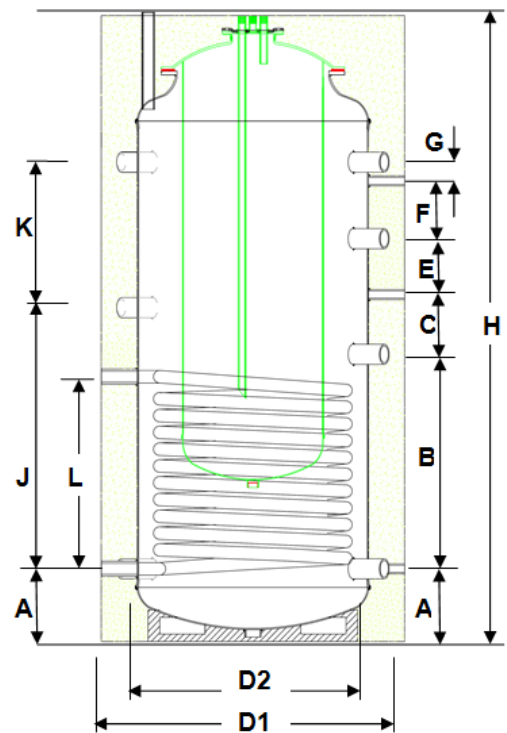
Tank type		500L	750L	1000L	1500L	2000L
Code		BAC-2-500	BAC-2-750	BAC-2-1000	BAC-2-1500	BAC-2-2000
Tank capacity [L]		492	746	882	1539	1831
Tank capacity ZNX [L]		150	150	150	182	182
Insulation type / Thickness [mm]		REMOVABLE SOFT POLYURETHANE				
		100	100	100	100	100
Exchanger capacity [L]		13,5	15,4	18,5	19,7	22,2
Exchanger volume [L]		18,8	21,4	25,7	27,4	30,8
Exchanger surface [m ²]		2,2	2,5	3,0	3,2	3,6
Pressure drop exchanger [bar] For Tm=60 °C & Flow:	1000L/h	0,025	0,028	0,034	0,036	0,040
	2000L/h	0,095	0,107	0,128	0,137	0,150
	3000L/h	0,208	0,236	0,280	0,300	0,340
Exchanger performance [KW] For Tin=80 °C, temperature water tank from 15°C to 60°C:	1000L/h	30,4	33,1	36,5	36,1	36,6
	2000L/h	40,7	45,1	51,4	53,2	57,8
	3000L/h	45,5	51,0	59,1	71,3	67,0
Sheet thickness: Body / caps [mm/mm]		2,5 / 2,5	3,0 / 3,0	3,0 / 4,0	4,0 / 4,0	4,0 / 5,0
Operation pressure tank		3 bar				
Maximum pressure/temperature tank		4 bar / 95° C				
Maximum pressure/temperature exchanger		16 bar / 160° C				

Hydraulic installation dimensions

	Description	500L – 1000L	1500L – 2000L
HWO	Hot Water Output	1 1/2"	3"
CWI	Cold Water Input	1 1/2"	3"
CI	Coil Input	1"	1"
CO	Coil Output	1"	1"
R	Recirculation	1 1/2"	3"
ER	Electrical resistance		
A"	Anode - Cap		
TR	Thermometer	1"	1/2"
T	Thermostat	1"	1/2"
F	Boiler Cleaning Inlet		
FR	Free spot	1 1/2"	3"
VEN	Ventilation		
S	Sensor	1"	1/2"



[mm]	500L	750L	1000L	1500L	2000L
D1-Ø	840	1010	1010	1300	1400
D2-Ø	640	810	810	1100	1200
H	1690	1890	2140	2040	2040
A	195	350	350	350	350
B	575	575	680	680	680
C	160	160	235	235	235
E	150	150	120	120	120
F	155	155	175	175	175
G	50	50	130	130	130
J	700	700	830	830	830
K	390	390	510	510	510
L	515	515	620	620	620



BUFFER TANKS (TANK IN TANK)

WITH 2 EXCHANGERS COIL BAC-2-TT
500L – 2000L

- Material:** Steel sheet
- Welding:** Automatic metal welding
- Operation pressure:** 3 bar
- Maximum water test pressure:** 4 bar
- Maximum operating pressure:** 95° C
- Insulation:** Polyurethane foam (52 kg/m³)
- Electrical resistance:** Upon request

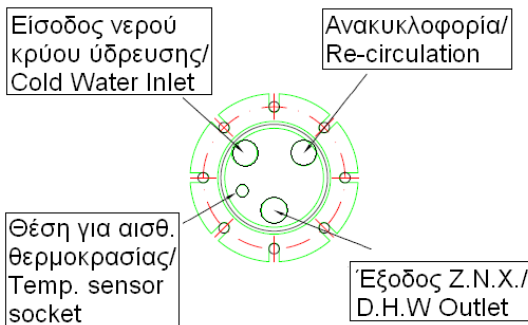
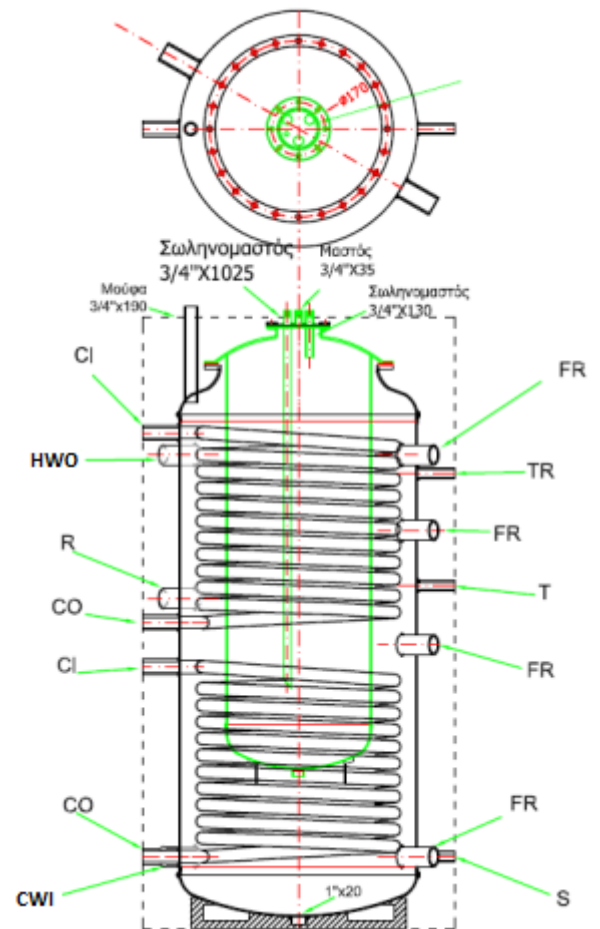
In the case that there is one or no exchanger, the supplies remain at the same height and place with a free supply throughout the tank



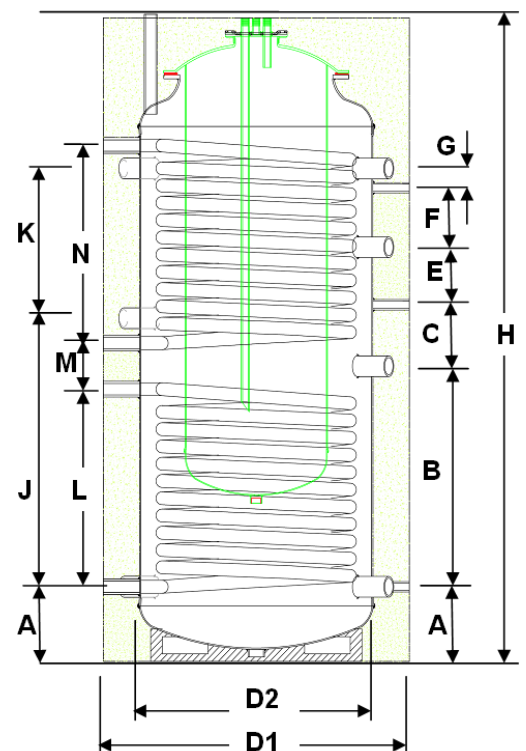
Tank type	500L	750L	1000L	1500L	2000L	
Code	BAC-2-500	BAC-2-750	BAC-2-1000	BAC-2-1500	BAC-2-2000	
Tank capacity [L]	492	746	882	1539	1831	
Tank capacity ZNX [L]	150	150	150	182	182	
Insulation type / Thickness [mm]	REMOVABLE SOFT POLYURETHANE					
	100	100	100	100	100	
Capacity upper exchanger [L]	13,5	15,4	18,5	19,7	22,2	
Capacity lower exchanger [L]	13,5	15,4	18,5	19,7	22,2	
Volume upper exchanger [L]	18,8	21,4	25,7	27,4	30,8	
Volume lower exchanger [L]	18,8	21,4	25,7	27,4	30,8	
Surface upper exchanger [m²]	2,2	2,5	3,0	3,2	3,6	
Surface lower exchanger [m²]	2,2	2,5	3,0	3,2	3,6	
Pressure drop lower exchanger [bar] For Tm=60 °C & Flow:	1000L/h	0,025	0,028	0,034	0,036	0,040
	2000L/h	0,095	0,107	0,128	0,137	0,150
	3000L/h	0,208	0,236	0,280	0,300	0,340
Performance lower exchanger [KW] For Tin=80 °C, temperature water tank from 15°C to 60°C:	1000L/h	30,4	33,1	36,5	36,1	36,6
	2000L/h	40,7	45,1	51,4	53,2	57,8
	3000L/h	45,5	51,0	59,1	71,3	67,0
Sheet thickness: Body / caps [mm/mm]	2,5 / 2,5	3,0 / 4,0	3,0 / 4,0	4,0 / 4,0	4,0 / 5,0	
Operation pressure tank	3 bar					
Maximum pressure/temperature tank	4 bar / 95° C					
Maximum pressure/temperature exchanger	16 bar / 160° C					

Hydraulic installation dimensions

	Description	500L – 1000L	1500L – 2000L
HWO	Hot Water Output	1 1/2"	3"
CWI	Cold Water Input	1 1/2"	3"
CI	Coil Input	1"	1"
CO	Coil Output	1"	1"
R	Recirculation	1 1/2"	3"
ER	Electrical resistance		
A"	Anode - Cap		
TR	Thermometer	1"	1/2"
T	Thermostat	1"	1/2"
F	Boiler Cleaning Inlet		
FR	Free spot	1 1/2"	3"
VEN	Ventilation		
S	Sensor	1"	1/2"








[mm]	500L	750L	1000L	1500L	2000L
D1-Ø	840	1010	1010	1300	1400
D2-Ø	640	810	810	1100	1200
H	1690	1890	2140	2040	2040
A	195	350	350	350	350
B	575	575	680	680	680
C	160	160	235	235	235
E	150	150	120	120	120
F	155	155	175	175	175
G	50	50	130	130	130
J	700	700	830	830	830
K	390	390	510	510	510
L	515	515	620	620	620
M	120	120	120	120	120
N	515	515	620	620	620





TECHNICAL CHARACTERISTICS OF DOMESTIC HOT WATER TANKS

 DOMESTIC HOT WATER TANK FOR HEAT PUMP 200L – 400L	
o With 1 exchanger coil.....	22
 DOMESTIC HOT WATER 150L – 500L	
o With 1 exchanger coil.....	24
o With 2 exchanger coils	26
 DOMESTIC HOT WATER 750L – 1000L	
o With 1 exchanger coil.....	28
o With 2 exchanger coils	30
 DOMESTIC HOT WATER 1500L – 9000L.....	32
 CERTIFICATIONS CE.....	53

DHW TANK FOR HEAT PUMP

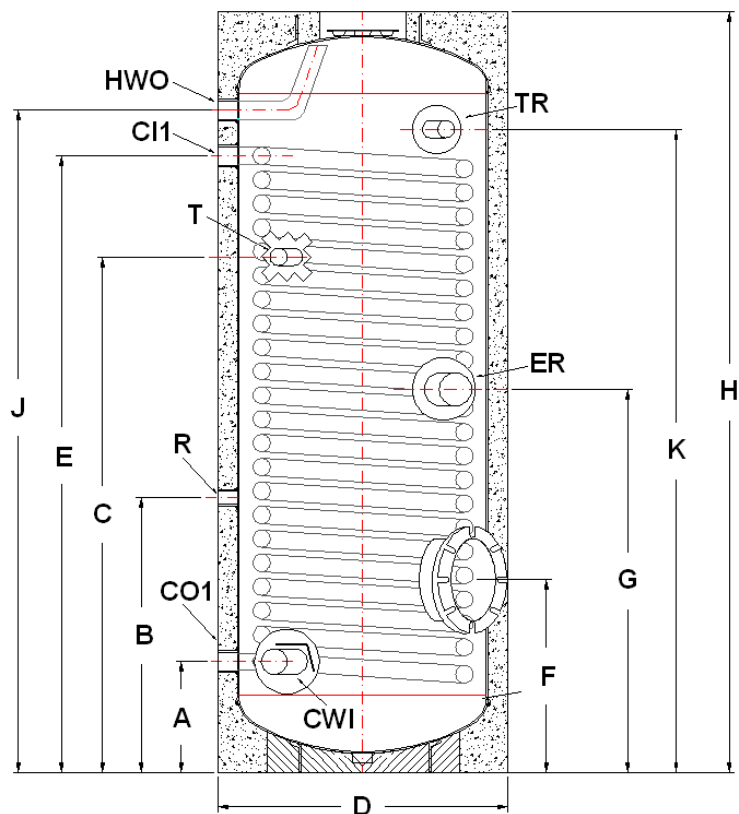
WITH 1 EXCHANGER COIL
200L – 400L

Material: Sheet metal DC 01 EN10130:2006
Welding: Automatic metal welding
Protective coating: Glass – Enamel and anode protection
Maximum Operation pressure tank: 10 bar
Maximum operating pressure tank: 95° C
Insulation: Polyurethane foam 50mm Thickness, density 52 kg/m³
Exchangerç: Pipe DCP 1"
Maximum Operation pressure exchanger: 16 bar
Maximum operating pressure exchanger: 130° C
Cleaning flange: Diameter Ø170mm



Type	200L	300L	400L
Tank capacity [L]	196,4	277,7	385
Exchanger capacity [L]	13,5	20,3	30,4
Exchanger S1 input/output [CI / CO]	1"	1"	1"
Exchanger surface [m ²]	2,00	3,00	4,5
Recirculation [R]	¾"	¾"	¾"
Cold Water Input [CWI]	1"	1"	1"
Hot Water Output [HWI]	1"	1"	1"
Sewage	1"	1"	1"
Cleaning flange	Ø140 & Ø170	Ø140 & Ø170	Ø170 & Ø170
For connection to the boiler at 90°C and water 10/45°C kW/L/h	82,3 2021	126 3095	192,1 4717

HWO	Hot Water Output
CWI	Cold Water Input
CI	Coil Input
CO	Coil Output
R	Recirculation
ER	Electrical resistance
A''	Anode - Cap
TR	Thermometer
T	Thermostat
F	Boiler Cleaning Inlet
FR	Free spot
VEN	Ventilation



[mm]	200L	300L	400L
A	200	278	200
J	1135	1284	1135
E	1020	1328	1020
A	200	278	200
B	640	638	640
F	400	430	400
H	1380	1580	1380
C	1035	1120	1035
K	1135	1300	1135
G	745	855	745
D	Ø560	Ø600	Ø750

DHW TANK

WITH EXCHANGER COIL
150L – 500L

Material: Steel sheet
Welding: Automatic metal welding
Protective coating: Glass – Enamel and anode protection
Maximum Operation pressure: 10 bar
Maximum water test pressure: 16 bar
Maximum operating pressure: 95° C
Insulation: Polyurethane foam 50mm Thickness density 52 kg/m³
Exchangerç: Pipe metallic
Maximum exchanger pressure test: 25 bar
Electrical resistance: Upon request
Flange: Diameter Ø170mm

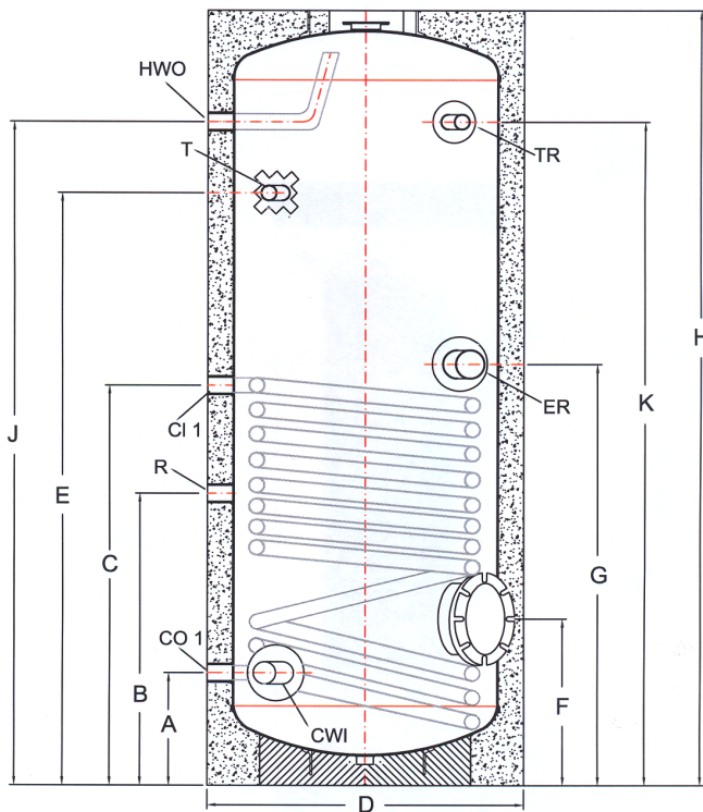


In all DHW Tanks and COMBI Tanks it is necessary to install an expansion vessel, a security valve and a protection anode for domestic hot water,

Type	150L	200L	250L	300L	500L
Code	BLS1-C 150	BLS1-C 200	BLS1-C 250	BLS1-C 300	BLS1-C 500
Tank capacity [L]	139,3	196,4	236,9	277,7	455,2
Exchanger capacity [L]	5	6,4	6,4	9,9	12,2
Exchanger S1 input/output [CI / CO]	1"	1"	1"	1"	1"
Exchanger surface [m ²]	0,78	0,986	0,986	1,55	1,92
Recirculation [R]	¾"	¾"	¾"	¾"	1"
Cold Water Input [CWI]	1"	1"	1"	1"	1"
Hot Water Output [HWO]	1"	1"	1"	1"	1"
Flange – Anode [A"]	Ø170 & Ø170	Ø170 & Ø170	Ø170 & Ø170	Ø170 & Ø170	Ø170 & Ø170
For connection to the boiler at 90°C and water 10/45°C kW/L/h	36 859	41,5 1018	41,5 1018	62,2 1528	76,4 1875
Operation pressure [bar]	10	10	10	10	10
Weight [kg]	60,5	86	93	110	171

Hydraulic installation dimensions

HWO	Hot Water Output
CWI	Cold Water Input
CI	Coil Input
CO	Coil Output
R	Recirculation
ER	Electrical resistance
A''	Anode - Cap
TR	Thermometer
T	Thermostat
F	Boiler Cleaning Inlet
FR	Free spot
VEN	Ventilation



[mm]	150L	200L	250L	300L	500L
A	245	200	230	278	263
J	880	1135	1235	1284	1265
C	597	690	720	767	755
A	245	200	230	278	263
B	485	540	560	638	603
F	425	400	385	430	450
H	1080	1380	1480	1580	1580
E	650	1035	1075	1120	1100
K	870	1135	1235	1300	1280
G	648	745	795	855	840
D	Ø560	Ø560	Ø600	Ø600	Ø750

DHW TANK

WITH 2 EXCHANGERS COILS
150L – 500L

Material: Steel sheet
Welding: Automatic metal welding
Protective coating: Glass – Enamel and anode protection
Operation pressure: 10 bar
Maximum water test pressure: 16 bar
Maximum operating pressure: 95° C
Insulation: Polyurethane foam 50mm Thickness, density 52 kg/m³
Exchanger: Pipe metallic
Maximum exchanger pressure test: 25 bar
Electrical resistance: Upon request
Flange: Diameter Ø170 mm

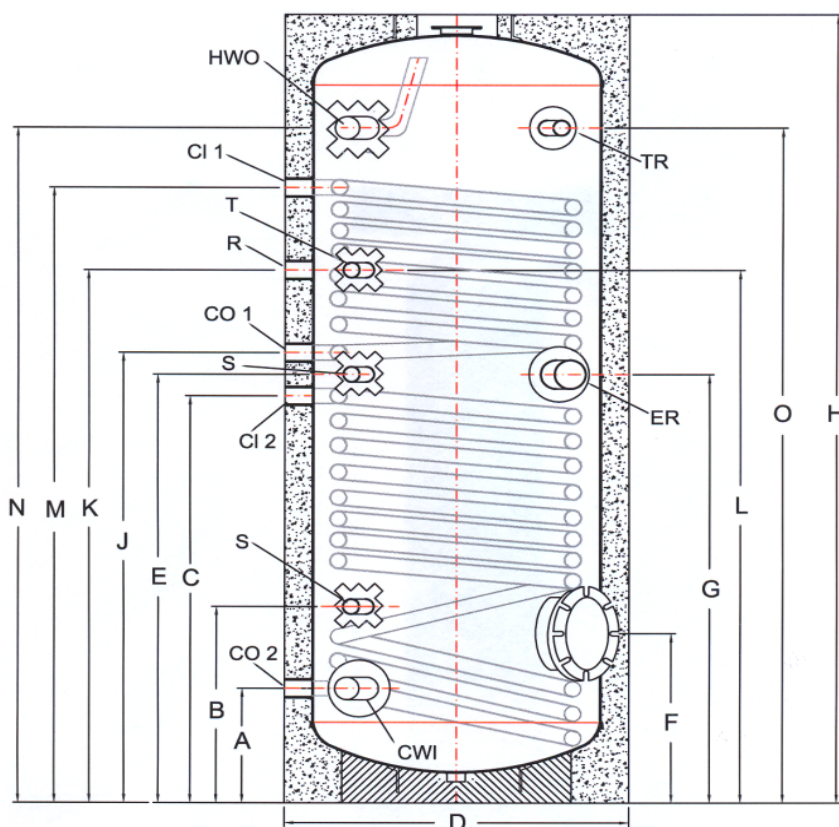


In all DHW Tanks and COMBI Tanks it is necessary to install an expansion vessel, a security valve and a protection anode for domestic hot water,

Type	150L	200L	250L	300L	500L
Code	BLS2-C 150	BLS2-C 200	BLS2-C 250	BLS2-C 300	BLS2-C 500
Tank capacity [L]	132,9	190	230,5	269,6	442,4
Exchanger capacity [L]	8	11,4	11,4	16,2	19,8
Exchangers S1/S2 input/output [CI / CO]	1"	1"	1"	1"	1"
Exchanger surface S1/S2 [m²]	0,53 / 0,78	0,78 / 0,99	0,78 / 0,99	0,99 / 1,55	1,20 / 1,92
Recirculation [R]	¾"	¾"	¾"	¾"	1"
Cold Water Input [CWI]	1"	1"	1"	1"	1"
Hot Water Output [HWO]	1"	1"	1"	1"	1"
Flange – Anode [A"]	Ø170 & Ø170	Ø170 & Ø170	Ø170 & Ø170	Ø170 & Ø170	Ø170 & Ø170
For connecting S1 to the boiler at 90°C and water 10/45°C kW/L/h	14,4 224	19,7 338	19,7 340	22,5 394,2	24,2 423,9
For connecting S2 to the boiler at 90°C and water 10/45°C kW/L/h	18,2 450	22,5 542	22,5 542	31,25 767,5	42 1031,5
Operation pressure [bar]	10	10	10	10	10
Weight [kg]	70	100	107	130	177

Hydraulic installation dimensions

HWO	Hot Water Output
CWI	Cold Water Input
CI	Coil Input
CO	Coil Output
R	Recirculation
ER	Electrical resistance
A''	Anode - Cap
TR	Thermometer
T	Thermostat
F	Boiler Cleaning Inlet
FR	Free spot
VEN	Ventilation



	150L	200L	250L	300L	500L
A	245	200	230	278	263
N	880	1135	1235	1284	1265
J	679	810	870	915	900
A	245	200	230	278	250
M	880	1109	1170	1215	1200
C	597	690	720	767	755
K	790	985	1075	1120	1100
H	1080	1380	1480	1580	1580
E	660	750	795	850	825
G	648	745	800	855	840
B	375	300	370	420	403
L	820	1034	1070	1215	1100
O	870	1135	1235	1300	1280
D	Ø560	Ø560	Ø600	Ø600	Ø750
F	425	400	385	430	450

DHW TANK

WITH 1 EXCHANGER COIL
750L –1000L

Material: Steel sheet
Welding: Automatic metal welding
Protective coating: Enamel
Maximum Operation pressure tank: 10 bar
Maximum operating pressure tank: 95° C
Insulation: Soft polyurethane 100mm Thickness, density 52 kg/m³
Exchangerç: Pipe DCP 1"
Maximum Operation pressure exchanger: 16 bar
Maximum operating pressure exchanger: 130° C
Cleaning flange: Diameter Ø170mm

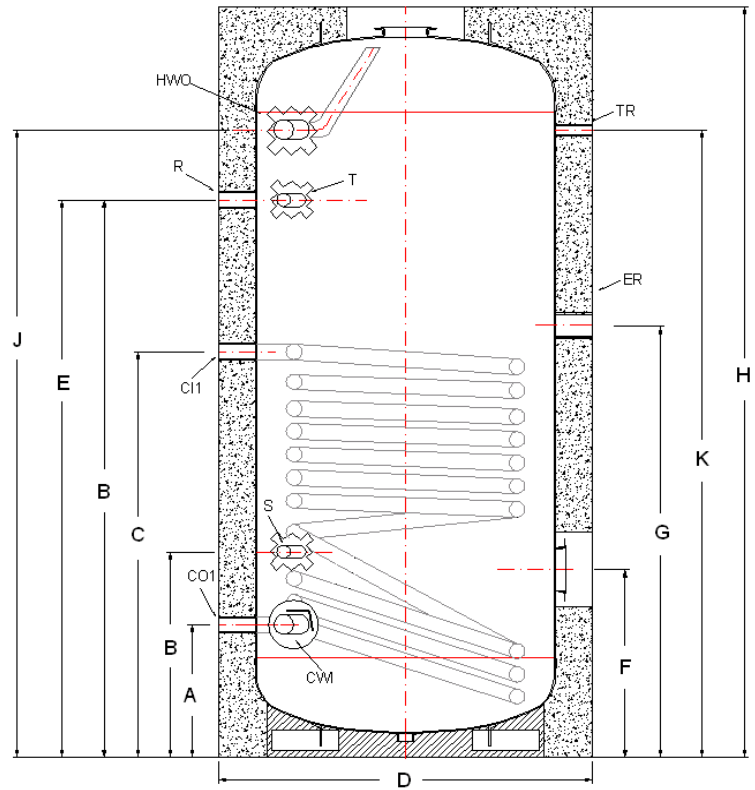


In all DHW Tanks and COMBI Tanks it is necessary to install an expansion vessel, a security valve and a protection anode for domestic hot water,

Type	750L	1000L
Code	BLS1-C 750	BLS1-C 1000
Tank capacity [L]	757	881
Exchanger capacity [L]	15,20	19,20
Exchanger S1 input/output [CI / CO]	1"	1"
Exchanger surface [m ²]	2,40	3,00
Recirculation [R]	1"	1"
Cold Water Input [CWI]	1 ½ "	1 ½ "
Hot Water Output [HWO]	1 ½ "	1 ½ "
Sewage	1"	1"
Cleaning flange	Ø170 & Ø170	Ø170 & Ø170
For connection to the boiler at 90°C and water 10/45°C kW/L/h	88,50 2175	113 2772
Weight [kg]	231	273

Hydraulic installation dimensions

HWO	Hot Water Output
CWI	Cold Water Input
CI	Coil Input
CO	Coil Output
R	Recirculation
ER	Electrical resistance
A''	Anode - Cap
TR	Thermometer
T	Thermostat
F	Boiler Cleaning Inlet
FR	Free spot
VEN	Ventilation



	750L	1000L
A	345	365
J	1475	1725
C	995	1115
A	345	365
B	1325	1532
F	555	535
H	1820	2070
E	1325	1532
K	1420	1725
G	980	1130
D	Ø1010	Ø1010

DHW TANK

WITH 2 EXCHANGERS COILS
750L –1000L

Material: Steel sheet
Welding: Automatic metal welding
Protective coating: Enamel
Maximum Operation pressure tank: 10 bar
Maximum operating pressure tank: 95° C
Insulation: Soft polyurethane 100mm Thickness, density 52 kg/m³
Exchangerç: Pipe DCP 1"
Maximum Operation pressure exchanger: 16 bar
Maximum operating pressure exchanger: 130° C
Cleaning flange: Diameter Ø170mm

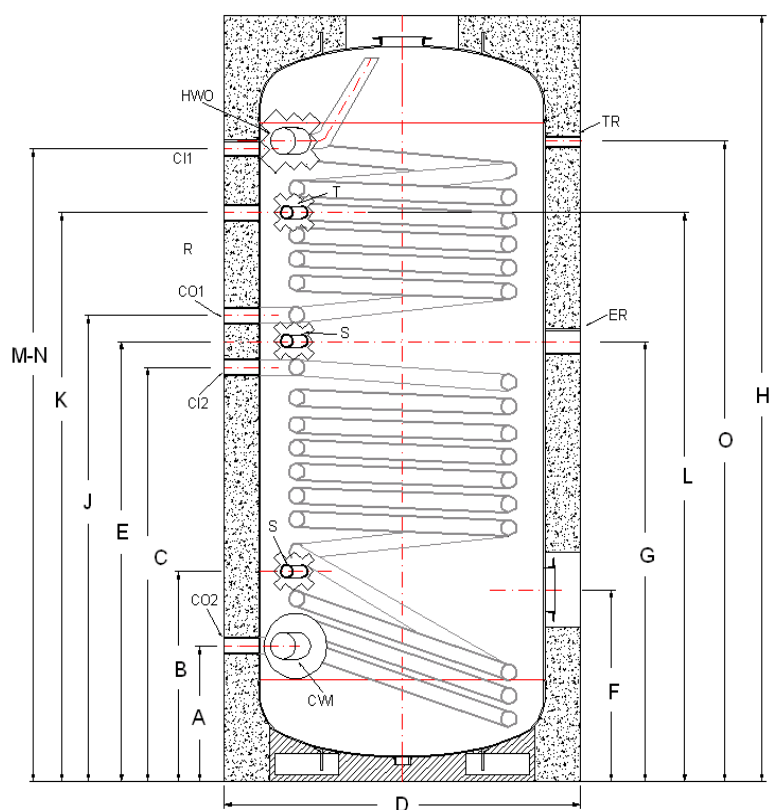


In all DHW Tanks and COMBI Tanks it is necessary to install an expansion vessel, a security valve and a protection anode for domestic hot water,

Type	750L	1000L
Code	BLS1-C 750	BLS1-C 1000
Tank capacity [L]	757	881
Exchanger capacity [L]	15,20	19,20
Exchanger S1 input/output [CI / CO]	1"	1"
Exchanger surface [m ²]	2,40	3,00
Recirculation [R]	1"	1"
Cold Water Input [CWI]	1 ½ "	1 ½ "
Hot Water Output [HWO]	1 ½ "	1 ½ "
Sewage	1"	1"
Cleaning flange	Ø170 & Ø170	Ø170 & Ø170
For connection to the boiler at 90°C and water 10/45°C kW/L/h	88,50 2175	113 2772
Weight [kg]	231	273

Hydraulic installation dimensions

HWI	Hot Water Input
CWO	Cold Water Output
CI	Coil Input
CO	Coil Output
R	Recirculation
ER	Electrical resistance
A''	Anode - Cap
TR	Thermometer
T	Thermostat
F	Boiler Cleaning Inlet
FR	Free spot
VEN	Ventilation



	750L	1000L
A	345	365
J	1475	1725
C	995	1115
A	345	365
B	1325	1532
F	555	535
H	1820	2070
E	1325	1532
K	1420	1725
G	980	1130
D	Ø1010	Ø1010

DHW TANK 1500L

WITH 2 REMOVABLE EXCHANGERS COILS

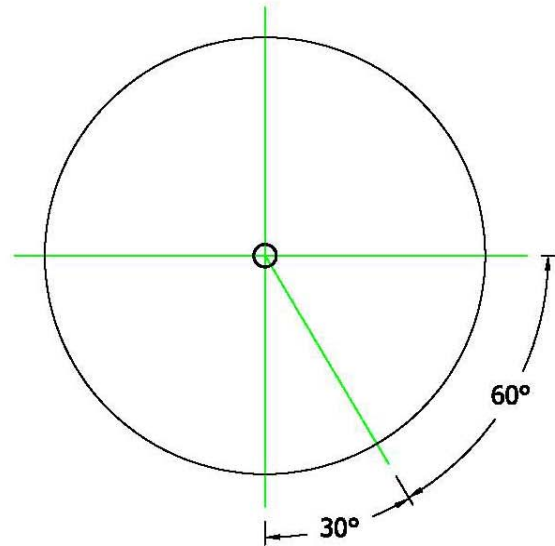
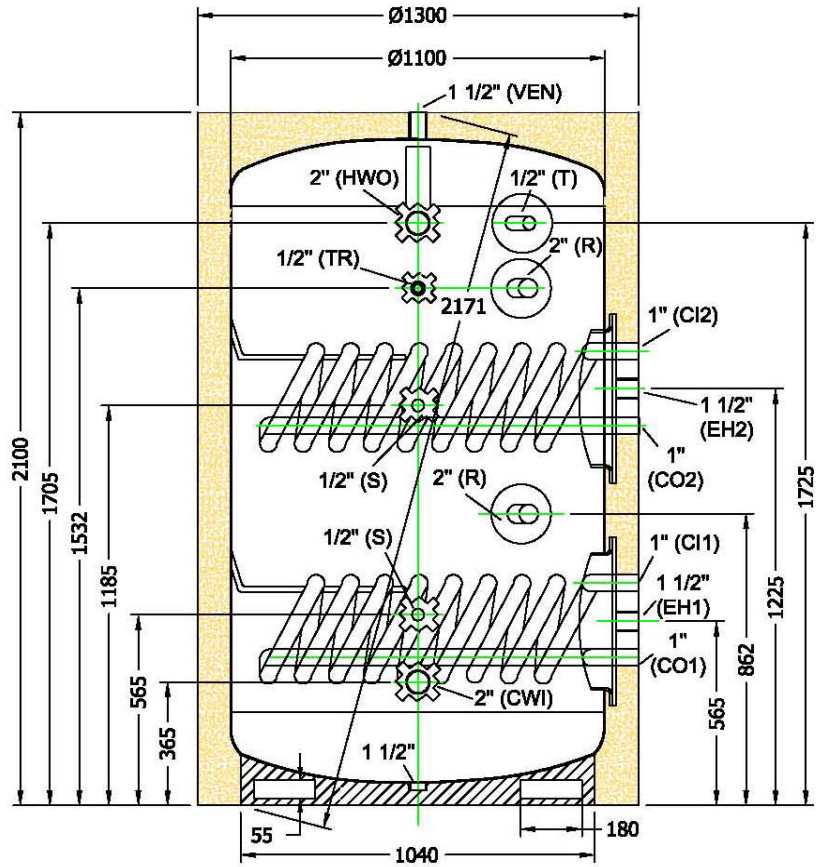
Material inner tank: Steel
Protection: Coated with epoxy resin
 Placement of magnesium anode
Material exchanger: Steel
Maximum Operation pressure tank: 8 bar
Maximum operating pressure tank: 95° C
Exchanger pressure resistance: 25 bar
Maximum operating pressure exchanger: 100° C
Insulation: Soft polyurethane, thickness 100mm
Outer coating: Soft colored PVC
 (Sheet metal upon request)
Electrical resistance: Upon request



Tank type		BLE – 15		
Nominal Tank capacity (L)		1500		
Real Tank capacity (L)		1480		
Outer coating surface (m ²)		8		
Number of flanges/Outlet diameter (mm)/Outer diameter (mm)		2 / Ø420 / Ø508		
Net weight of unit (Kg)		420		
Exchanger weight 3,2m ² (Kg)		78		
Exchanger weight 5,4m ² (Kg)		109		
Total weight of outer coating and outer caps (Kg)		20		
Possible exchanger combinations	Exchanger surface 1 (S1 in m ²) + Exchanger surface 2 (S2 in m ²) = Total surface of exchangers (m ²)	a, S1 + S2 = 3,2 + 3,2 = 6,4		
		b, S1 + S2 = 5,4 + 3,2 = 8,6		
		c, S1 + S2 = 5,4 + 5,4 = 10,8		
Total weight of ready unit (According to the surface of the exchangers)		596Kg (6,4m ²)	627Kg (8,6m ²)	658Kg (10,8m ²)

Hydraulic installation dimensions

Description of symbols	
CWI	Cold Water Input
HWO	Hot Water Output
R	Recirculation
VEN	Ventilation
FR	Free supply
CI	Coil Input
CO	Coil Output
S	Sensor
T	Thermostat
TR	Thermometer
EH	Electrical resistance



1500L DHW TANK PERFORMANCE (TRIPLE ENERGY SOURCE)

Below are presented the performances of a **1500L** DHW Tank for various flows of the upper exchanger (Table 1) as well as of the lower exchanger (Table 2),

Surface upper exchanger: 3,2m² or 5,4 m²

Upper exchanger supply	Performance upper exchanger (3,2m ²)	Performance upper exchanger (5,4m ²)
1,800 L/h	48,10 KW	64,60 KW
2,600 L/h	54,50 KW	79,20 KW
3,900 L/h	61,40 KW	90,90 KW

Table 1: Upper exchanger performance for temperature DHW from 15 °C to 60 °C, with supply temperature at the exchanger 80 °C,

Surface lower exchanger: 3,2m² or 5,4 m²

Lower exchanger supply	Performance lower exchanger (3,2m ²)	Performance lower exchanger (5,4m ²)
1,800 L/h	49,10 KW	65,30 KW
2,600 L/h	55,20 KW	78,40 KW
3,900 L/h	62,20 KW	91,10 KW

Table 2: Performance lower exchanger for temperature DHW from 15 °C to 60 °C, with supply temperature at the exchanger 80 °C,

- The upper exchanger heats the 52% of the total capacity of DHW,
- The lower exchanger heats the 88% of the total capacity of DHW,
- Possible exchanger combinations:
 - 3,2 m² + 3,2 m² = 6,4 m²
 - 5,4 m² + 3,2 m² = 8,6 m²
 - 5,4 m² + 5,4 m² = 10,8 m²

DHW TANK 2000 L

WITH 2 REMOVABLE EXCHANGERS

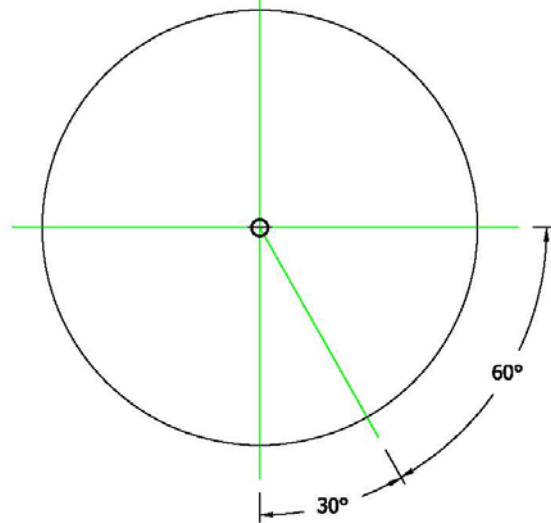
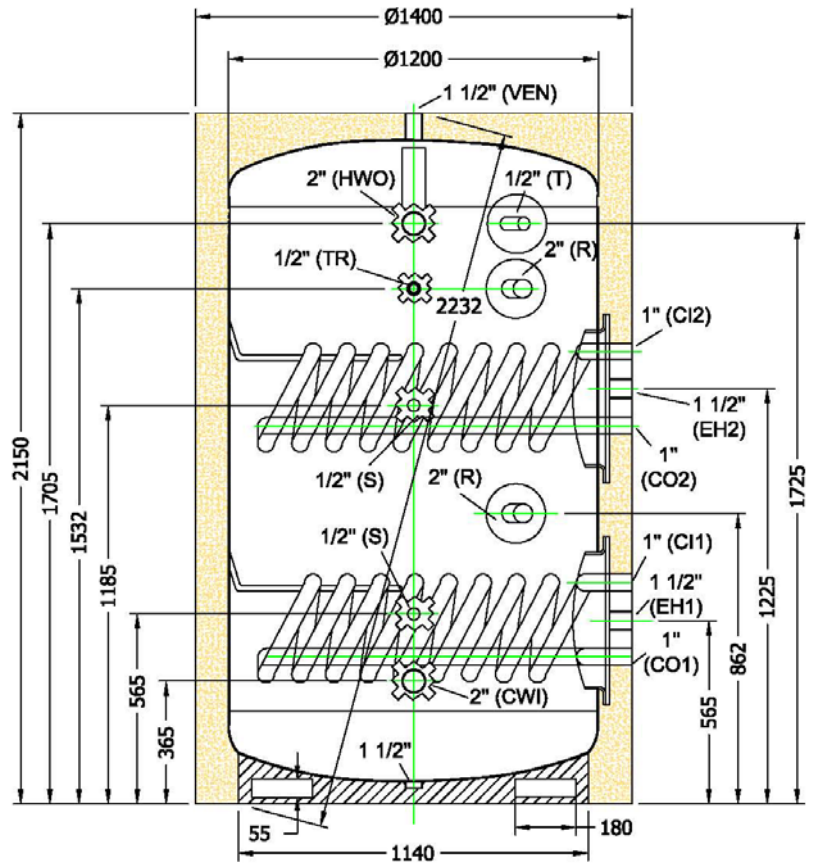
Material inner tank: Steel
Protection: Coated with epoxy resin
 Placement of magnesium anode
Material exchanger: Steel
Maximum Operation pressure tank: 8 bar
Maximum operating pressure tank: 95° C
Exchanger pressure resistance: 25bar
Maximum operating pressure exchanger: 100° C
Insulation: Soft polyurethane, thickness 100mm
Outer coating: Soft colored PVC (Sheet metal upon request)
Electrical resistance: Upon request



Tank type		BLE - 20			
Nominal Tank capacity (L)		[L]	2000		
Real Tank capacity (L)		[L]	1940		
Outer coating surface		[m ²]	9,3		
Number of flanges / Outlet diameter / Outer diameter (mm)		[mm] / [mm]	2 / Ø420 / Ø508		
Net weight of unit		[Kg]	490		
Exchanger weight 3,2m ²		[Kg]	78		
Exchanger weight 5,4m ²		[Kg]	109		
Total weight of outer coating and outer caps		[Kg]	24		
Possible exchanger combinations	Exchanger surface 1 (S1 in m ²)	[m ²]	a, S1 + S2 = 3,2 + 3,2 = 6,4		
	Exchanger surface 2 (S2 in m ²)		b, S1 + S2 = 5,4 + 3,2 = 8,6		
	=Total surface of exchangers		c, S1 + S2 = 5,4 + 5,4 = 10,8		
Total weight of ready unit (According to the surface of the exchangers)			670Kg (6,4m ²)	701Kg (8,6m ²)	732Kg (10,8m ²)

Hydraulic installation dimensions

Description of symbols	
CWI	Cold Water Input
HWO	Hot Water Output
	Recirculation
VEN	Ventilation
FR	Free supply
CI	Coil Input
CO	Coil Output
S	Sensor
T	Thermostat
TR	Thermometer
EH	Electrical resistance



2000L DHW TANK PERFORMANCE (TRIPLE ENERGY SOURCE)

Below are presented the performances of a **2000L** DHW Tank for various flows of the upper exchanger (Table 1) as well as of the lower exchanger (Table 2),

Surface upper exchanger: 3,2m² or 5,4 m²

Upper exchanger supply	Performance upper exchanger (3,2m ²)	Performance upper exchanger (5,4m ²)
1,800 L/h	47,80 KW	64,70 KW
2,600 L/h	54,95 KW	78,50 KW
3,900 L/h	61,10 KW	91,60 KW

Table 1: Upper exchanger performance for temperature DHW from 15 °C to 60 °C, with supply temperature at the exchanger 80 °C,

Surface lower exchanger: 3,2m² or 5,4 m²

Lower exchanger supply	Performance lower exchanger (3,2m ²)	Performance lower exchanger (5,4m ²)
1,800 L/h	47,80 KW	65,00 KW
2,600 L/h	55,10 KW	77,95 KW
3,900 L/h	61,10 KW	90,50 KW

Table 2: Performance lower exchanger for temperature DHW from 15 °C to 60 °C, with supply temperature at the exchanger 80 °C,

- The upper exchanger heats the 54% of the total capacity of DHW,
- The lower exchanger heats the 83% of the total capacity of DHW,
- Possible exchanger combinations:
 - $3,2 \text{ m}^2 + 3,2 \text{ m}^2 = 6,4 \text{ m}^2$
 - $5,4 \text{ m}^2 + 3,2 \text{ m}^2 = 8,6 \text{ m}^2$
 - $5,4 \text{ m}^2 + 5,4 \text{ m}^2 = 10,8 \text{ m}^2$

DHW TANK 3000L

WITH 2 REMOVABLE EXCHANGERS COILS

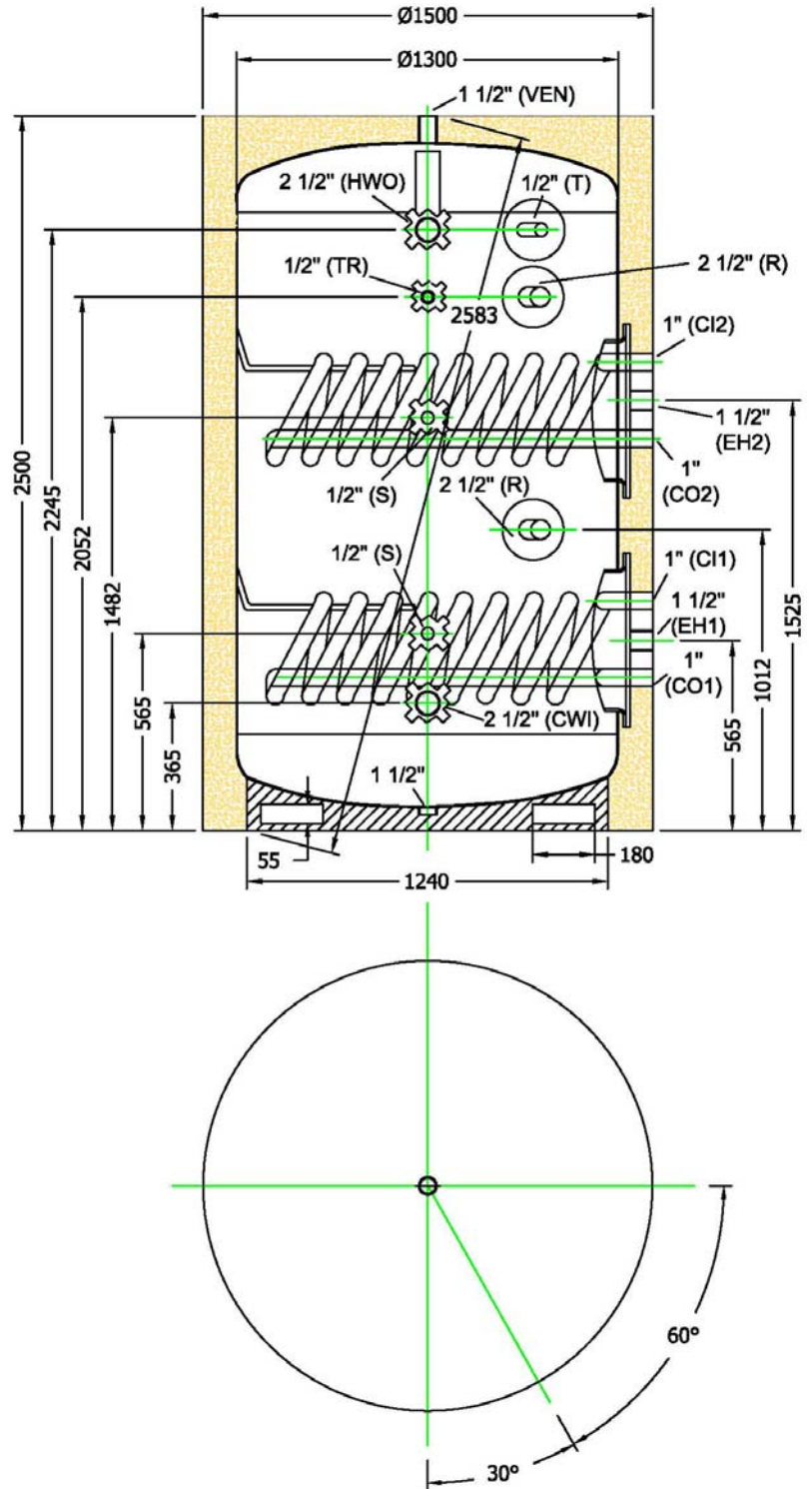
Material inner tank: Steel
Protection: Coated with epoxy resin
 Placement of magnesium anode
Material exchanger: Steel
Maximum Operation pressure tank: 8 bar
Maximum operating pressure tank: 95° C
Exchanger pressure resistance: 25bar
Maximum operating pressure exchanger: 100° C
Insulation: Soft polyurethane, thickness 100mm
Outer coating: Soft colored PVC (Sheet metal upon request)
Electrical resistance: Upon request



Tank type		BLE - 30			
Nominal Tank capacity		[L]	3000		
Real Tank capacity		[L]	2940		
Outer coating surface		[m ²]	13,9		
Number of flanges/Outlet diameter / Outer diameter		[mm / mm]	2 / Ø420 / Ø508		
Net weight of unit		[kg]	645		
Exchanger weight 3,2m ²		[kg]	78		
Exchanger weight 5,4m ²		[kg]	109		
Total weight of outer coating and outer caps		[kg]	34		
Possible exchanger combinations	Exchanger surface 1 (S1 in m ²) + Exchanger surface 2 (S2 in m ²) = Total surface of exchangers	[m ²]	a, S1 + S2 = 3,2 + 3,2 = 6,4		
			b, S1 + S2 = 5,4 + 3,2 = 8,6		
			c, S1 + S2 = 5,4 + 5,4 = 10,8		
Total weight of ready unit (According to the surface of the exchangers)		[m ²]	835Kg (6,4m ²)	866Kg (8,6m ²)	897Kg (10,8m ²)

Hydraulic installation dimensions

Description of symbols	
CWI	Cold Water Input
HWO	Hot Water Output
R	Recirculation
VEN	Ventilation
FR	Free supply
CI	Coil Input
CO	Coil Output
S	Sensor
T	Thermostat
TR	Thermometer
EH	Electrical resistance



3000L DHW TANK PERFORMANCE (TRIPLE ENERGY SOURCE)

Below are presented the performances of a **3000L** DHW Tank for various flows of the upper exchanger (Table 1) as well as of the lower exchanger (Table 2),

Surface upper exchanger: 3,2m² or 5,4 m²

Upper exchanger supply	Performance upper exchanger (3,2m ²)	Performance upper exchanger (5,4m ²)
3,000 L/h	57,20 KW	82,00 KW
4,000 L/h	62,15 KW	90,60 KW
5,000 L/h	64,90 KW	98,80 KW

Table 1: Upper exchanger performance for temperature DHW from 15° C to 60° C, with supply temperature at the exchanger 80° C,

Surface lower exchanger: 3,2m² or 5,4 m²

Lower exchanger supply	Performance lower exchanger (3,2m ²)	Performance lower exchanger (5,4m ²)
3,000 L/h	57,30 KW	82,10 KW
4,000 L/h	62,20 KW	91,50 KW
5,000 L/h	64,70 KW	98,30 KW

Table 2: Performance lower exchanger for temperature DHW from 15° C to 60° C, with supply temperature at the exchanger 80° C,

- The upper exchanger heats the 47% of the total capacity of DHW,
- The lower exchanger heats the 86% of the total capacity of DHW,
- Possible exchanger combinations:
 - 3,2 m² + 3,2 m² = 6,4 m²
 - 5,4 m² + 3,2 m² = 8,6 m²
 - 5,4 m² + 5,4 m² = 10,8 m²

DHW TANK 4000L WITH 2 REMOVABLE EXCHANGERS

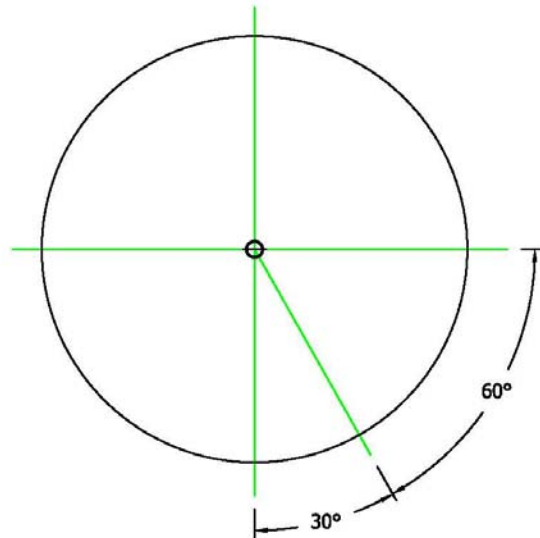
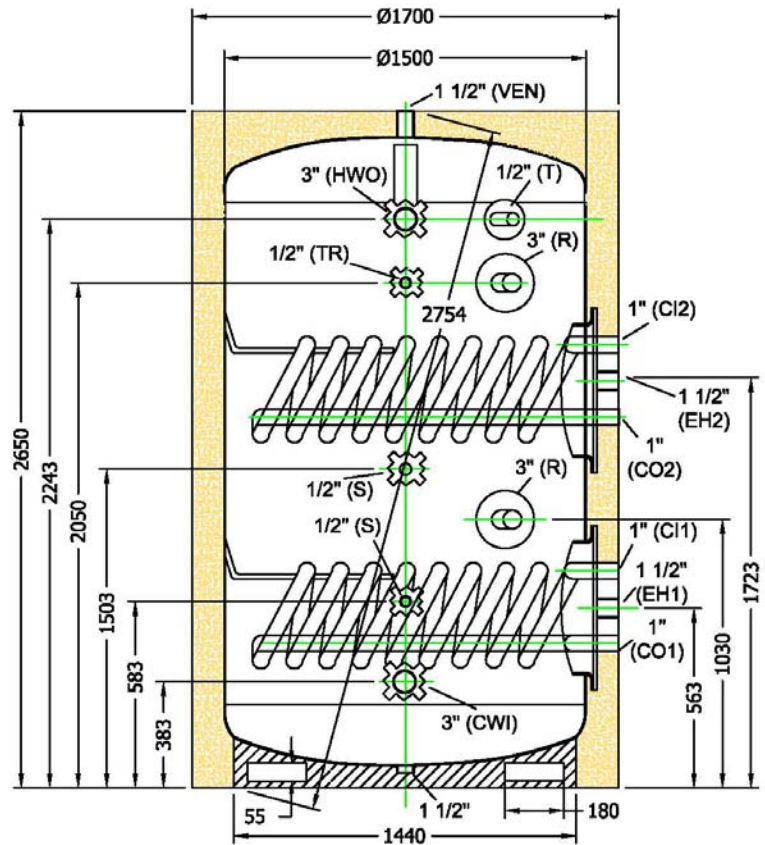
Material inner tank: Steel
Protection: Coated with epoxy resin
 Placement of magnesium anode
Material exchanger: Steel
Maximum Operation pressure tank: 8 bar
Maximum operating pressure tank: 95° C
Exchanger pressure resistance: 25bar
Maximum operating pressure exchanger: 100° C
Insulation: Soft polyurethane, thickness 100mm
Outer coating: Soft colored PVC (Sheet metal upon request)
Electrical resistance: Upon request



Tank type	BLE - 40	
Nominal Tank capacity	[L]	4000
Real Tank capacity	[L]	3960
Outer coating surface	[m ²]	15,5
Number of flanges / Outlet diameter / Outer diameter	[mm] / [mm]	2 / Ø420 / Ø508
Net weight of unit	[Kg]	850
Exchanger weight 5,4m ²	[Kg]	109
Total weight of outer coating and outer caps	[Kg]	39
Exchanger surface 1 (S1 in m ²) + Exchanger surface 2 (S2 in m ²) = Total surface of exchangers	[m ²]	S1 + S2 = 5,4 + 5,4 = 10,8
Total weight of ready unit	[Kg]	1107

Hydraulic installation dimensions

Description of symbols	
CWI	Cold Water Input
HWO	Hot Water Output
R	Recirculation
VEN	Ventilation
FR	Free supply
CI	Coil Input
CO	Coil Output
S	Sensor
T	Thermostat
TR	Thermometer
EH	Electrical resistance



4000L DHW TANK PERFORMANCE (TRIPLE ENERGY SOURCE)

Below are presented the performances of a **4000L** DHW Tank for various flows of the upper exchanger (Table 1) as well as of the lower exchanger (Table 2),

Surface upper exchanger: 5,4 m²

Upper exchanger supply	Performance upper exchanger (5,4m ²)
3,000 L/h	82,50 KW
4,000 L/h	91,55 KW
5,000 L/h	96,80 KW

Table 1: Upper exchanger performance for temperature DHW from 15° C to 60° C, with supply temperature at the exchanger 80° C,

Surface lower exchanger: 5,4 m²

Lower exchanger supply	Performance lower exchanger (5,4m ²)
3,000 L/h	82,30 KW
4,000 L/h	91,45 KW
5,000 L/h	97,30 KW

Table 2: Performance lower exchanger for temperature DHW from 15° C to 60° C, with supply temperature at the exchanger 80° C,

- The upper exchanger heats the 43% of the total capacity of DHW,
- The lower exchanger heats the 86% of the total capacity of DHW,
- Possible exchanger combinations: 5,4 m² + 5,4 m² =10,8 m²

DHW TANK 5000L

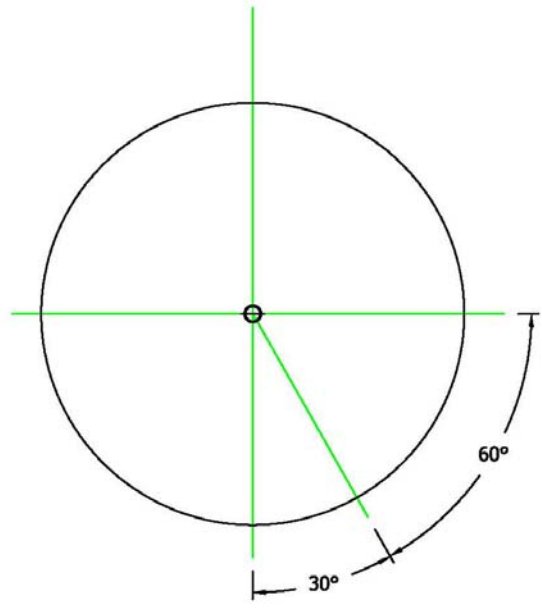
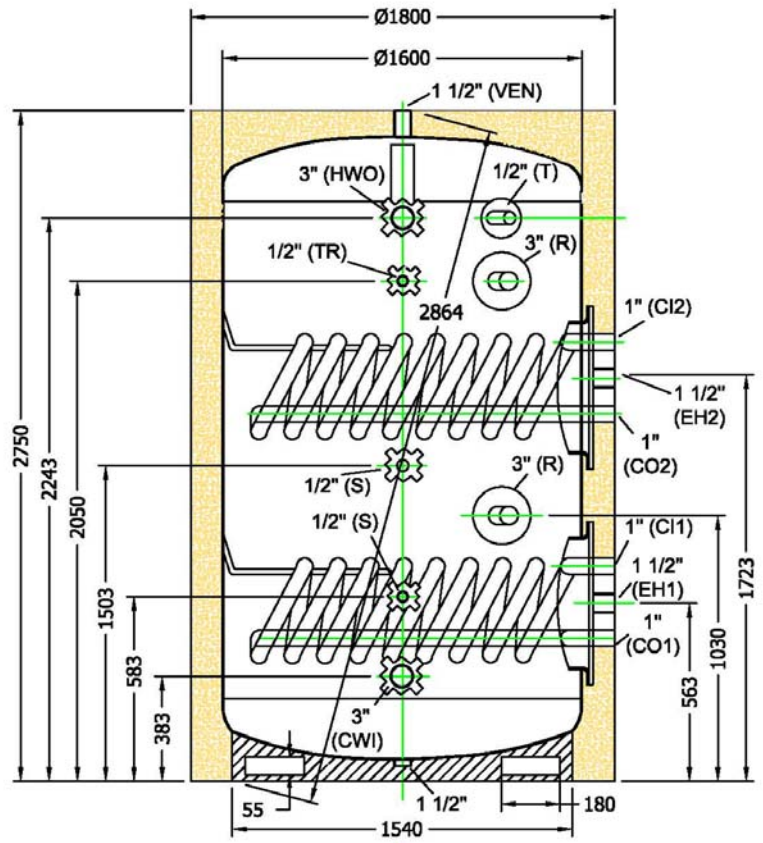
WITH 2 REMOVABLE EXCHANGERS

Material inner tank: Steel
Protection: Coated with epoxy resin
 Placement of magnesium anode
Material exchanger: Steel
Maximum Operation pressure tank: 8 bar
Maximum operating pressure tank: 95° C
Exchanger pressure resistance: 25bar
Maximum operating pressure exchanger: 100° C
Insulation: Soft polyurethane, thickness 100mm
Outer coating: Soft colored PVC (Sheet metal upon request)
Electrical resistance: Upon request



Tank type	BLE - 50	
Nominal Tank capacity	[L]	5000
Real Tank capacity	[L]	4700
Outer coating surface	[m ²]	17,4
Number of flanges / Outlet diameter / Outer diameter	[mm] / [mm]	2 / Ø420 / Ø508
Net weight of unit	[Kg]	930
Exchanger weight 5,4 m ²	[Kg]	109
Total weight of outer coating and outer caps	[Kg]	45
Exchanger surface 1 (S1 in m ²) + Exchanger surface 2 (S2 in m ²) = Total surface of exchangers	[m ²]	S1 + S2 = 5,4 + 5,4 = 10,8
Total weight of ready unit	[Kg]	1193

Description of symbols	
CWI	Cold Water Input
HWO	Hot Water Output
R	Recirculation
VEN	Ventilation
FR	Free supply
CI	Coil Input
CO	Coil Output
S	Sensor
T	Thermostat
TR	Thermometer
EH	Electrical resistance



5000L DHW TANK PERFORMANCE (TRIPLE ENERGY SOURCE)

Below are presented the performances of a **5000L** DHW Tank for various flows of the upper exchanger (Table 1) as well as of the lower exchanger (Table 2),

Surface upper exchanger: 5,4 m²

Upper exchanger supply	Performance upper exchanger (5,4m ²)
3,000 L/h	82,15 KW
4,000 L/h	91,20 KW
5,000 L/h	97,90 KW

Table 1: Upper exchanger performance for temperature DHW from 15 °C to 60 °C, with supply temperature at the exchanger 80 °C,

Surface lower exchanger: 5,4 m²

Lower exchanger supply	Performance lower exchanger (5,4m ²)
3,000 L/h	81,95 KW
4,000 L/h	91,30 KW
5,000 L/h	97,50 KW

Table 2: Performance lower exchanger for temperature DHW from 15 °C to 60 °C, with supply temperature at the exchanger 80 °C,

- The upper exchanger heats the 43% of the total capacity of DHW,
- The lower exchanger heats the 86% of the total capacity of DHW,
- Possible exchanger combinations: 5,4 m² + 5,4 m² =10,8 m²

DHW TANK 7000L

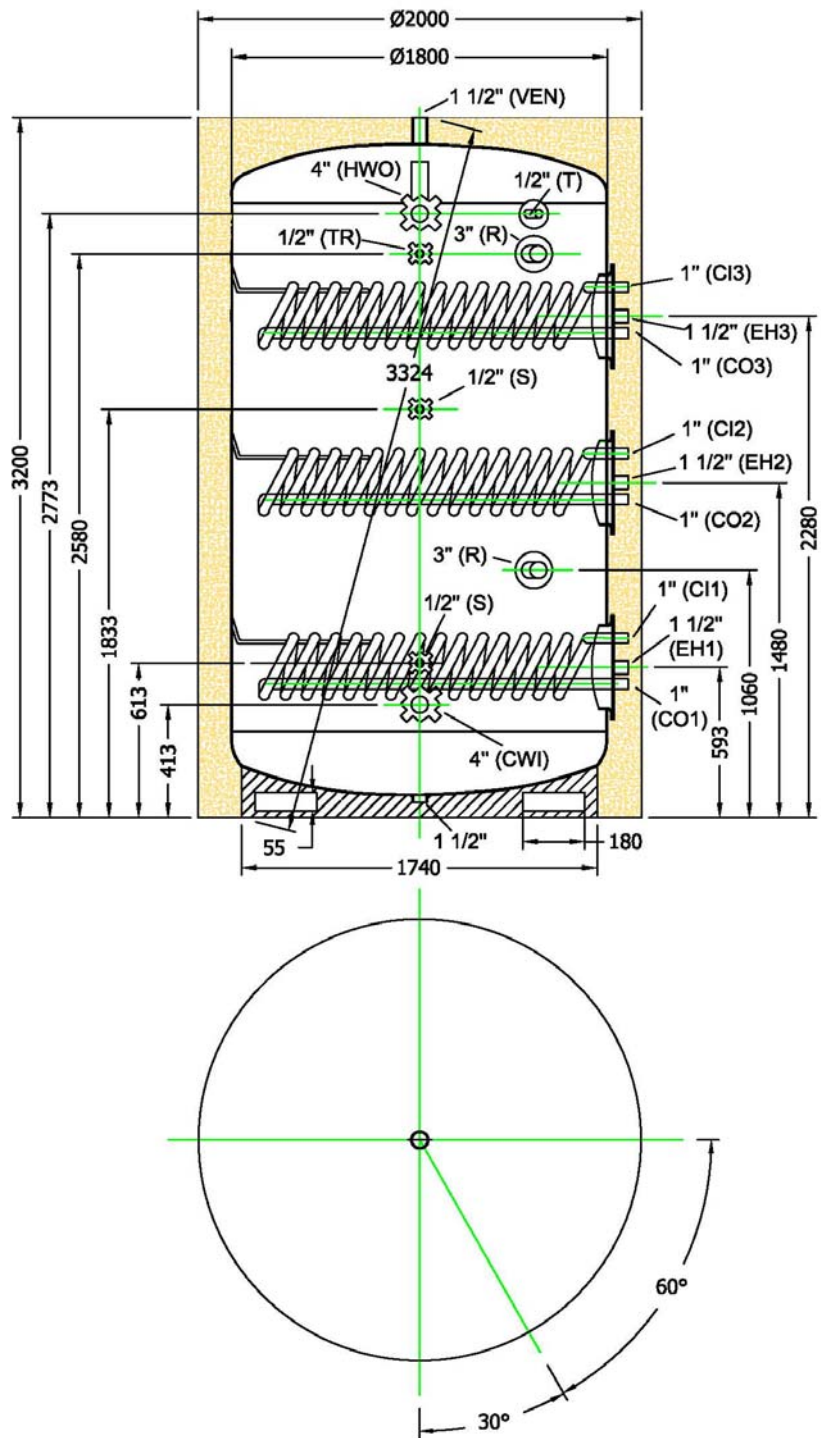
WITH 3 REMOVABLE EXCHANGERS

Material inner tank: Steel
Protection: Coated with epoxy resin
 Placement of magnesium anode
Material exchanger: Steel
Maximum Operation pressure tank: 8 bar
Maximum operating pressure tank: 95 °C
Exchanger pressure resistance: 25 bar
Maximum operating pressure exchanger: 100° C
Insulation: Soft polyurethane, thickness 100 mm
Outer coating: Soft colored PVC (Sheet metal upon request)
Electrical resistance: Upon request



Tank type	BLE - 70	
Nominal Tank capacity	[L]	7000
Real Tank capacity	[L]	6950
Outer coating surface	[m ²]	23
Number of flanges / Outlet diameter / Outer diameter	[mm] / [mm]	3 / Ø420 / Ø508
Net weight of unit	[Kg]	1400
Exchanger weight 7,8m ²	[Kg]	154
Total weight of outer coating and outer caps	[Kg]	58
Exchanger surface 1 (S1 in m ²) + Exchanger surface 2 (S2 in m ²) + Exchanger surface 3 (S3 in m ²) = Total surface of exchangers	[m ²]	S1 + S2 + S3 = 7,8 + 7,8 + 7,8 = 23,4
Total weight of ready unit	[Kg]	1920

Description of symbols	
CWI	Cold Water Input
HWO	Hot Water Output
R	Recirculation
VEN	Ventilation
FR	Free supply
CI	Coil Input
CO	Coil Output
S	Sensor
T	Thermostat
TR	Thermometer
EH	Electrical resistance



7000L DHW TANK PERFORMANCE (QUADRUPLE ENERGY SOURCE)

Below are presented the performances of a **7000L** DHW Tank for various flows of the upper exchanger (Table 1), the middle exchanger (Table 2) as well as of the lower exchanger (Table 3),

Surface upper exchanger: 7,8 m²

Upper exchanger supply	Performance upper exchanger (7,8m ²)
3,000 L/h	104,80 KW
4,000 L/h	119,50 KW
5,000 L/h	129,60 KW

Table 1: Upper exchanger performance for temperature DHW from 15 °C to 60 °C, with supply temperature at the exchanger 80 °C,

Surface of middle exchanger: 7,8 m²

Middle exchanger supply	Performance middle exchanger (7,8m ²)
3,000 L/h	104,15 KW
4,000 L/h	119,30 KW
5,000 L/h	129,90 KW

Table 2: Middle exchanger performance for temperature DHW from 15 °C to 60 °C, with supply temperature at the exchanger 80 °C,

Surface lower exchanger: 7,8 m²

Lower exchanger supply	Performance lower exchanger (7,8m ²)
3,000 L/h	104,60 KW
4,000 L/h	119,40 KW
5,000 L/h	130,00 KW

Table 3: Performance lower exchanger for temperature DHW from 15 °C to 60 °C, with supply temperature at the exchanger 80 °C,

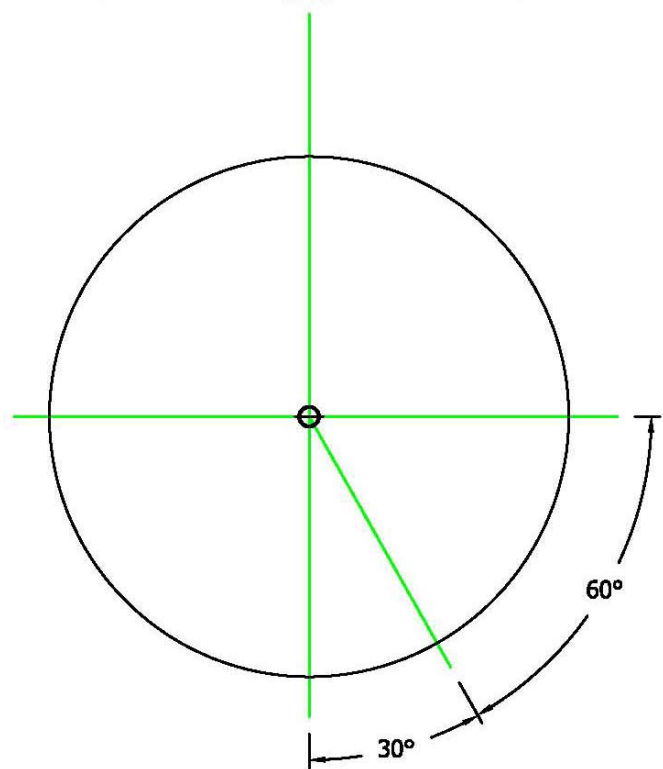
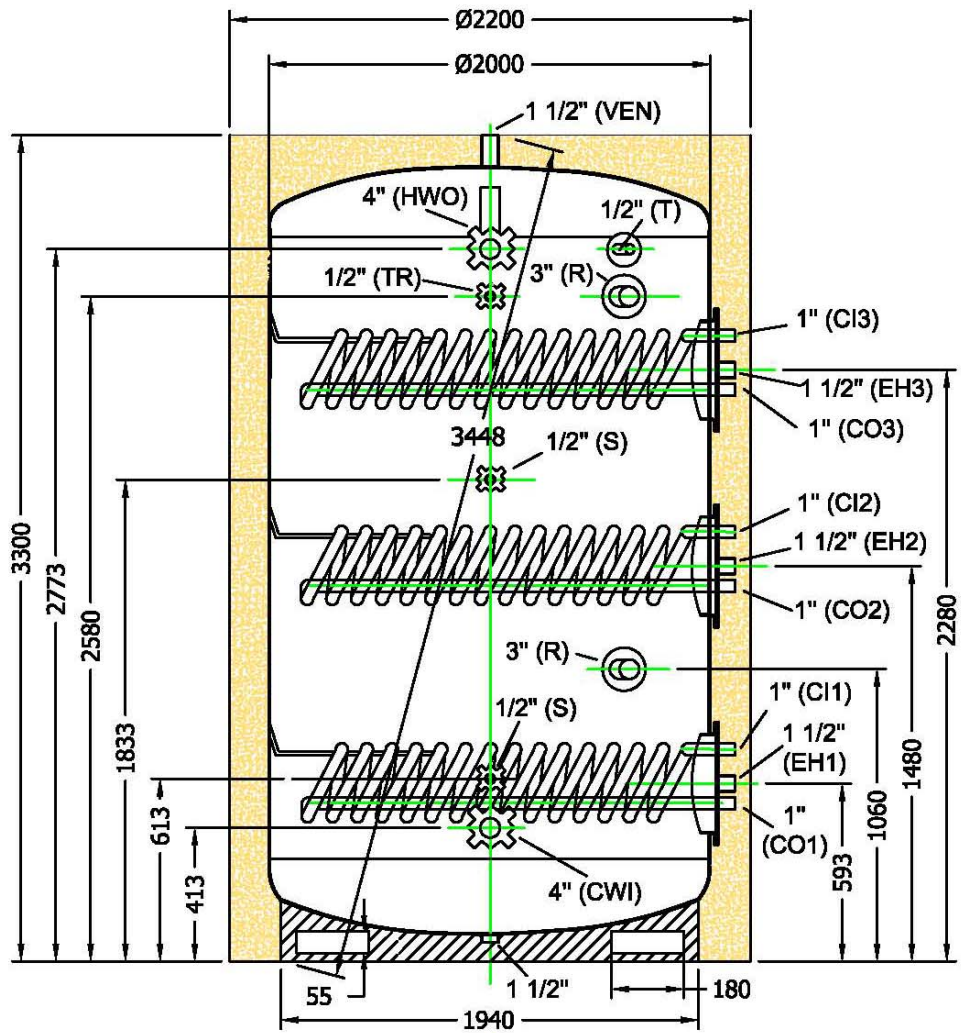
- The upper exchanger heats the 35% of the total capacity of DHW,
- The middle exchanger heats the 60% of the total capacity of DHW,
- The lower exchanger heats the 88% of the total capacity of DHW,
- Possible exchanger combinations: 7,8 m² + 7,8 m² + 7,8 m² = 23,4 m²

Material inner tank: Steel
Protection: Coated with epoxy resin
 Placement of magnesium anode
Material exchanger: Steel
Maximum Operation pressure tank: 8 bar
Maximum operating pressure tank: 95° C
Exchanger pressure resistance: 25 bar
Maximum operating pressure exchanger: 100° C
Insulation: Soft polyurethane, thickness 100 mm
Outer coating: Soft colored PVC (Sheet metal upon request)
Electrical resistance: Upon request



Tank type	BLE - 90	
Nominal Tank capacity	[L]	9000
Real Tank capacity	[L]	8960
Outer coating surface	[m ²]	26,5
Number of flanges/Outlet diameter /Outer diameter	[mm] / [mm]	3 / Ø420 / Ø508
Net weight of unit	[Kg]	1800
Exchanger weight 7,8m ²	[Kg]	154
Total weight of outer coating and outer caps	[Kg]	67
Exchanger surface 1 (S1 in m ²) + Exchanger surface 2 (S2 in m ²) + Exchanger surface 3 (S3 in m ²) = Total surface of exchangers	[m ²]	S1 + S2 + S3 = 7,8 + 7,8 + 7,8 = 23,4
Total weight of ready unit	[Kg]	2319

Description of symbols	
CWI	Cold Water Input
HWO	Hot Water Output
R	Recirculation
VEN	Ventilation
FR	Free supply
CI	Coil Input
CO	Coil Output
S	Sensor
T	Thermostat
TR	Thermometer
EH	Electrical resistance



9000L DHW TANK PERFORMANCE (QUADRUPLE ENERGY SOURCE)

Below are presented the performances of a **9000L** DHW Tank for various flows of the upper exchanger (Table 1), the middle exchanger (Table 2) as well as of the lower exchanger (Table 3),

Surface upper exchanger: 7,8 m²

Upper exchanger supply	Performance upper exchanger (7,8m ²)
3,000 L/h	105,40 KW
4,500 L/h	124,20 KW
6,000 L/h	137,30 KW

Table 1: Upper exchanger performance for temperature DHW from 15 °C to 60 °C, with supply temperature at the exchanger 80 °C,

Surface of middle exchanger: 7,8 m²

Middle exchanger supply	Performance middle exchanger (7,8m ²)
3,000 L/h	104,30 KW
4,500 L/h	124,60 KW
6,000 L/h	137,60 KW

Table 2: Performance middle exchanger for temperature DHW from 15 °C to 60 °C, with supply temperature at the exchanger 80 °C,

Surface lower exchanger: 7,8 m²

Lower exchanger supply	Performance lower exchanger (7,8m ²)
3,000 L/h	104,70 KW
4,500 L/h	125,30 KW
6,000 L/h	138,60 KW

Table 3: Performance lower exchanger for temperature DHW from 15 °C to 60 °C, with supply temperature at the exchanger 80 °C,

- The upper exchanger heats the 37% of the total capacity of DHW,
- The middle exchanger heats the 61% of the total capacity of DHW,
- The lower exchanger heats the 88% of the total capacity of DHW,
- Possible exchanger combinations: 7,8 m² + 7,8 m² + 7,8 m² = 23,4 m²

ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ
DECLARATION OF CONFORMITY

CE

ΕΝΤΟΛΟΔΟΧΟΣ/ AUTHORIZED REPRESENTATIVE
(Εγκατεστημένος στην Ε.Κ/established in the E.C.)
ΟΝΟΜΑ/NAME

INTERPLAST A.E.

ΔΙΕΥΘΥΝΣΗ/ADDRESS

10ο χλμ Ε.Ο. ΘΕΣ/ΝΙΚΗΣ - ΚΑΤΕΡΙΝΗΣ

ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ ΔΗΛΩΝΕΙ ΟΤΙ: / HEREWITH DECLARES THAT:
ΠΕΡΙΓΡΑΦΗ ΠΡΟΙΟΝΤΟΣ / PRODUCT DESCRIPTION

BUFFER TANK - ΔΟΧΕΙΑ ΑΔΡΑΝΕΙΑΣ

ΤΥΠΟΣ/TYPE			ΜΑΡΚΑ/ BRAND NAME
BAC-0 150	BAC-1 150	BAC-2 150	ΔΟΧΕΙΑ ΑΔΡΑΝΕΙΑΣ - BUFFER TANK
BAC-0 200	BAC-1 200	BAC-2 200	
BAC-0 250	BAC-1 250	BAC-2 250	
BAC-0 300	BAC-1 300	BAC-2 300	
BAC-0 500	BAC-1 500	BAC-2 500	
BAC-0 750	BAC-1 750	BAC-2 750	
BAC-0 1000	BAC-1 1000	BAC-2 1000	

ΕΙΝΑΙ ΣΥΜΦΩΝΟ ΜΕ ΤΙΣ ΔΙΑΤΑΞΕΙΣ ΟΔΗΓΙΩΝ/ IS IN CONFORMITY WITH PROVISIONS OF DIRECTIVES
89/106/EEC

ΠΡΟΤΥΠΑ ΕΦΑΡΜΟΖΟΜΕΝΑ ΑΠΟ ΤΟΝ ΚΑΤΑΣΚΕΥΑΣΤΗ/ IS IN CONFORMITY WITH PROVISIONS OF DIRECTIVES

Εναρμονισμένα/harmonize
Διεθνή/ international
Εθνικά/ national

EN 12897:2006

ΕΤΟΣ ΠΟΥ ΤΕΘΗΚΕ Η ΣΗΜΑΝΣΗ CE/ YEAR IN WHICH CE MARKING WAS AFFIXED

2002

ΣΤΟΙΧΕΙΑ ΤΟΥ ΕΞΟΥΣΙΟΔΟΤΗΜΕΝΟΥ ΑΠΟ ΤΟΝ ΚΑΤΑΣΚΕΥΑΣΤΗ ΝΑ ΥΠΟΓΡΑΦΕΙ ΤΗΝ ΔΗΛΩΣΗ
IDENTIFICATION OF THE PERSON EMPOWERED TO SIGN ON BEHALF OF THE MANUFACTURER

ΟΝΟΜΑ /NAME

INTERLAST A.E.

ΔΙΕΥΘΥΝΣΗ/ ADDRESS

10^ο χλμ Ε.Ο. ΘΕΣ/ΝΙΚΗΣ - ΚΑΤΕΡΙΝΗΣ

ΤΟΠΟΣ ΚΑΙ ΗΜΕΡΟΜΗΝΙΑ /PLACE AND DATE

ΘΕΣΣΑΛΟΝΙΚΗ 03/12/2012

ΥΠΟΓΡΑΦΗ ΚΑΙ ΣΦΡΑΓΙΔΑ ΕΝΤΟΛΟΔΟΧΟΥ
SIGNATURE AND REPRESENTATIVE SEAL

INTERPLAST A.E.
Αρ. Μ.Α.Ε. 89908/62/Β/98/37
ΑΦΜ: 094520275 Δ.Ο.Φ.Α.Ε. ΘΕΣ/ΝΙΚΗΣ
ΤΗΛ. 2310 795373 (5 το.) FAX 2310 795373

ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ
DECLARATION OF CONFORMITY

CE

ΕΝΤΟΛΟΔΟΧΟΣ/ AUTHORIZED REPRESENTATIVE

(Εγκατεστημένος στην Ε.Κ/established in the E.C.)

ΟΝΟΜΑ/NAME

INTERPLAST A.E.

ΔΙΕΥΘΥΝΣΗ/ADDRESS

10ο χλμ Ε.Ο. ΘΕΣ/ΝΙΚΗΣ - ΚΑΤΕΡΙΝΗΣ

ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ ΔΗΛΩΝΕΙ ΟΤΙ: / HEREWITH DECLARES THAT:

ΠΕΡΙΓΡΑΦΗ ΠΡΟΙΟΝΤΟΣ / PRODUCT DESCRIPTION

FLOOR STANDING BOILER – ΛΕΒΗΤΟΣΤΑΣΙΟΥ ΚΑΘΕΤΟ

ΤΥΠΟΣ/TYPE	ΜΑΡΚΑ/ BRAND NAME	
BLS-1 150	BLS-2 150	ΔΟΧΕΙΟ ΖΕΣΤΩΝ ΝΕΡΩΝ ΧΡΗΣΗΣ - BOILER
BLS-1 200	BLS-2 200	
BLS-1 250	BLS-2 250	
BLS-1 300	BLS-2 300	
BLS-1 500	BLS-2 500	
BLS-1 750	BLS-2 750	
BLS-1 1000	BLS-2 1000	

ΕΙΝΑΙ ΣΥΜΦΩΝΟ ΜΕ ΤΙΣ ΔΙΑΤΑΞΕΙΣ ΟΔΗΓΙΩΝ/ IS IN CONFORMITY WITH PROVISIONS OF DIRECTIVES

89/106/EEC

ΠΡΟΤΥΠΑ ΕΦΑΡΜΟΖΟΜΕΝΑ ΑΠΟ ΤΟΝ ΚΑΤΑΣΚΕΥΑΣΤΗ/ IS IN CONFORMITY WITH PROVISIONS OF DIRECTIVES

Εναρμονισμένα/harmonize

Διεθνή/ international

Εθνικά/ national

EN 12897:2006

ΕΤΟΣ ΠΟΥ ΤΕΘΗΚΕ Η ΣΗΜΑΝΣΗ CE/ YEAR IN WHICH CE MARKING WAS AFFIXED

2002

ΣΤΟΙΧΕΙΑ ΤΟΥ ΕΞΟΥΣΙΟΔΟΤΗΜΕΝΟΥ ΑΠΟ ΤΟΝ ΚΑΤΑΣΚΕΥΑΣΤΗ ΝΑ ΥΠΟΓΡΑΦΕΙ ΤΗΝ ΔΗΛΩΣΗ
IDENTIFICATION OF THE PERSON EMPOWERED TO SIGN ON BEHALF OF THE MANUFACTURER

ΟΝΟΜΑ /NAME

INTERLAST A.E.

ΔΙΕΥΘΥΝΣΗ/ ADDRESS

10^ο χλμ Ε.Ο. ΘΕΣ/ΝΙΚΗΣ - ΚΑΤΕΡΙΝΗΣ

ΤΟΠΟΣ ΚΑΙ ΗΜΕΡΟΜΗΝΙΑ /PLACE AND DATE

ΘΕΣΣΑΛΟΝΙΚΗ 03/12/2012

ΥΠΟΓΡΑΦΗ ΚΑΙ ΣΦΡΑΓΙΔΑ ΕΝΤΟΛΟΔΟΧΟΥ
SIGNATURE AND REPRESENTATIVE SEAL

INTERPLAST A.E.

Αρ. Μ.Α.Ε.: 39808/62/Β/98/37

ΑΦΜ: 09457279-ΔΟΥ.ΚΑΕ.ΘΕΣ/ΝΙΚΗΣ

ΤΗΛ. 2310 795531 (5 γραμ.) ΦΑΧ: 2310 795373