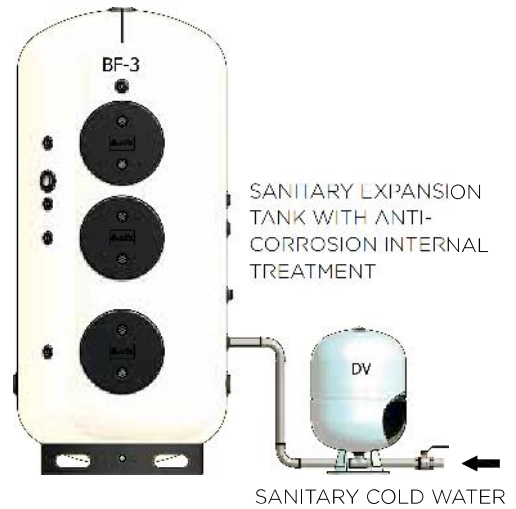




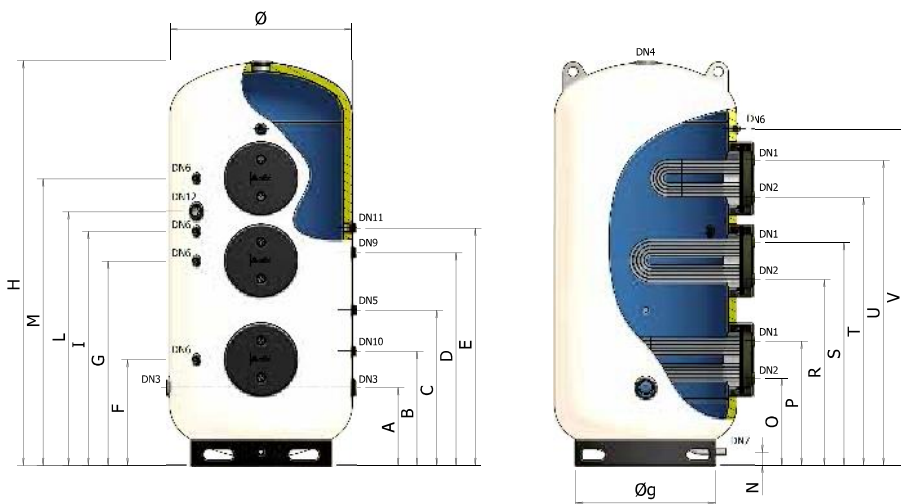
# BF3

## GLASSLINED CYLINDERS

WITH THREE REMOVABLE STAINLESS STEEL HEAT EXCHANGERS (1.500 - 5.000 LITRES)



### BF3 1500 - 2000 - 3000 - 5000



#### KEYWORD

**DN1:** Primary fluid inlet (heating side); **DN2:** Primary fluid outlet (heating side); **DN5:** Primary fluid inlet (heating side); **DN4:** Primary fluid outlet (heating side); **DN5:** Sanitary cold water inlet; **DN6:** Sanitary hot water outlet; **DN7:** Magnesium anode; **DN8:** Probes (Thermometer, Thermostat); **DN9:** Tank drain; **DN11:** Recirculation.



CYLINDER



FOR SANITARY HOT WATER



SUITABLE FOR SOLAR SYSTEMS



MAGNESIUM ANODE



INTERNAL GLASSLINING ANTI-CORROSION TREATMENT



POLYURETHANE INSULATION  
HEAT EXCHANGER IN STAINLESS STEEL AISI 304



HANDLING BY FORKLIFT



+ 95°C  
WORKING TEMPERATURE



+110°C  
HEAT EXCHANGER MAX TEMPERATURE

$P_{MAX}$  6 bar

MAX WORKING PRESSURE

$P_{SEGA}$  12 bar

HEAT EXCHANGER MAX PRESSURE

**WARRANTY: 5 YEARS**

#### REFERENCE STANDARDS

##### CYLINDER:

Directive PED 97/23/EC – ART. 3.3, without CE marking  
Standard EN 12897:2006

##### INTERNAL GLASSLINING:

DIN 4753

The glasslining treatment makes the cylinder suitable to contain hot water for sanitary and hygienic use and resistant to corrosive phenomena.

#### INSULATION:

Expanded, flexible polyurethane with open cells.

#### HEAT EXCHANGER:

Removable U pipe stainless steel heat exchanger.

#### INSTALLATION:

- traditional boilers (wall-hung and/or floor-standing)
- condensing boilers
- solar thermal systems

**DIMENSIONS**

MODEL	CODE	LITRES	EXCHANGER								mm	mm	NOTES
			LOWER		CENTRAL		UPPER		mm	mm			
			m <sup>2</sup>	LITRES	m <sup>2</sup>	LITRES	m <sup>2</sup>	LITRES					
BF-3 / 1500	A380H67 VW050	1500	4,00	18	3,00	15	1,60	7,5	1100	2465			
BF-3 / 2000	A380H70 VW050	2000	4,00	18	4,00	18	2,50	12,5	1200	2445			
BF-3 / 3000	A380H74 VW050	3000	6,00	24	6,00	24	3,00	15	1350	2840			
BF-3 / 5000	A380H80 VW050	5000	10,00	39	10,00	39	5,00	21	1700	3045			

MODEL	ANODE ø x ø conn. x L	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN
		1	2	3	4	5	6	7	8	9	10	11	12	
BF-3 / 1500	32 x 1.1/4" x 670	1.1/2"	1.1/2"	2.1/2"	3"	1.1/4"	1/2"	1"	-	1.1/2"	1.1/4"	1.1/4"	1.1/4"	2"
BF-3 / 2000	32 x 1.1/4" x 670	1.1/2"	1.1/2"	2.1/2"	3"	1.1/4"	1/2"	1"	-	1.1/2"	1.1/4"	1.1/4"	1.1/4"	2"
BF-3 / 3000	32 x 1.1/4" x 700	1.1/2"	1.1/2"	3"	3"	1.1/2"	1/2"	1"	-	1.1/2"	1.1/4"	1.1/4"	1.1/4"	2"
BF-3 / 5000	40 x 1.1/2" x 640	1.1/2"	1.1/2"	3"	3"	1.1/2"	1/2"	1"	-	1.1/2"	1.1/4"	1.1/4"	1.1/4"	2"

MODEL	A	B	C	D	E	F	G	I	L	M	N	O	P	Q	R	S	T	U	V
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
BF-3 / 1500	475	695	945	1295	1445	645	1245	1425	1545	1745	80	530	755	-	1130	1355	1630	1855	2045
BF-3 / 2000	465	685	935	1285	1435	635	1235	1415	1535	1735	80	520	745	-	1120	1345	1620	1845	2035
BF-3 / 3000	530	730	980	1480	1630	680	1280	1520	1730	1930	80	565	790	-	1165	1390	1815	2040	2380
BF-3 / 5000	635	835	1085	1585	1735	785	1385	1625	1835	2035	80	670	895	-	1270	1495	1920	2145	2485

## TECHNICAL CHARACTERISTICS

HEAT EXCHANGER	CODE	MAXIMUM WORKING PRESSURE / MAXIMUM WORKING TEMPERATURE			PRESSURE DROP OF HEAT EXCHANGERS
		HOT WATER 12 BAR / 110 °C	SATURATED STEAM 4 BAR / 152 °C	SATURATED STEAM 2 BAR / 134 °C	
1,6 m <sup>2</sup>	2950150	•	n.a.	•	80 mbar
2,5 m <sup>2</sup>	2960250	•	n.a.	•	110 mbar
3,0 m <sup>2</sup>	2950300 V0010	•	•	n.a.	200 mbar
4,0 m <sup>2</sup>	2950400 V0010	•	•	n.a.	220 mbar
5,0 m <sup>2</sup>	2960500 V0010	•	•	n.a.	270 mbar
6,0 m <sup>2</sup>	2960600 V0010	•	•	n.a.	350 mbar
10,0 m <sup>2</sup>	2961000 V0010	•	•	n.a.	400 mbar

N.B. If using the heat exchanger with temperatures over 100 °C, ask for steam seals

MODEL	INSULATION TYPE	INSULATION THICKNESS	INSULATION DENSITY	INITIAL THERMAL CONDUCTIVITY	(*) INSULATION THERMAL LOSS	EXTERNAL FINISH
BF-3 / 1500	Flexible, expanded polyurethane with open cells	50 mm	15 kg/m <sup>3</sup>	39 mW/m K	6,53 kWh / 24h	Skay white RAL 9001
BF-3 / 2000					7,15 kWh / 24h	
BF-3 / 3000					9,18 kWh / 24h	
BF-3 / 5000					12,27 kWh / 24h	

(\*) Thermal loss calculated with an accumulation temperature equal to 60 °C and with an external temperature equal to 15 °C.

## SAFETY DEVICES

The cylinders must be protected against the effects of over pressure by installing:

- A **SAFETY VALVE** calibrated to pressure below the max pressure of the cylinder
- A **SANITARY EXPANSION TANK** mod. ELBI **D - DV series**

MODEL	RECOMMENDED SANITARY EXPANSION TANK (mod. ELBI D-DV series)
BF-3 / 1500	DV - 150
BF-3 / 2000	DV - 150
BF-3 / 3000	DV - 300
BF-3 / 5000	n°2 pcs DV - 200

Sized using the following parameters: T. accumulation= 85 °C / T. inlet = 15 °C / Pre-charge pressure = 3 bar / Max pressure = 6 bar  
The recommended capacity must be verified on the basis of the actual dimensions of the system implemented

MODEL	MAGNESIUM ANODE SUPPLIED	CATHODIC PROTECTION APPLICABLE
BF-3 / 1500	1,1/4" x 670 / Cod.8560070	Cathodic protection for cylinders 1500/2000 l Code 8560180
BF-3 / 2000	1,1/4" x 670 / Cod.8560070	
BF-3 / 3000	1,1/4" x 700 / Cod.8560080	Cathodic protection for cylinders 3000/5000 l. Code 8560185
BF-3 / 5000	1,1/2" x 640 / Cod.8560100	