
TECHNICAL MANUAL

GB

BVX - BVXS

HIGH EFFICIENCY WATER HEATERS



THE EQUIPMENT IS IN ACCORDANCE WITH CE DIRECTIVE 97/23
(ARTICLE 3 PARAGRAPH 3)

BVX - TECHNICAL DATA

Model	Max working pressure (bar)	Heat exchanger volume (litres)	Heat exchanger surface (m ²)	Power* (kW)	Heating time** (minutes)	Heat loss at 65 °C (kWh/24h)	DHW *			Primary load losses (kpa)
							Continuous flow (litres/hours)	Flow rate in the first 10' (litres)	Flow rate in the first 60' (litres)	
BVX 200	6	5,4	1,00	49	15	2,43	1200	287	1287	1,60
BVX 300	6	8,9	1,27	55	17	1,58	1367	264	1403	1,80
BVX 400	6	8,9	1,27	55	19	2,20	1367	402	1536	1,80
BVX 500	6	13,3	2,00	83	18	2,43	2055	558	2270	2,40
BVX 600	6	13,3	2,00	83	21	2,65	2055	650	2363	2,40
BVX 800	6	22,0	2,4	96	20	2,62	2364	1422	3391	2,60
BVX 1000	6	29,0	3,2	131	19	5,41	3231	1823	4515	5,40

* Performances calculated assuming:

primary circuit inlet / outlet temperature 80 / 70 °C

secondary circuit inlet/outlet temperature 12 / 45 °C

storage temperature 60 °C

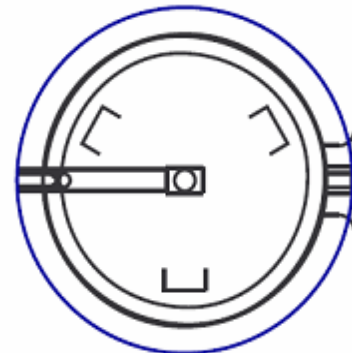
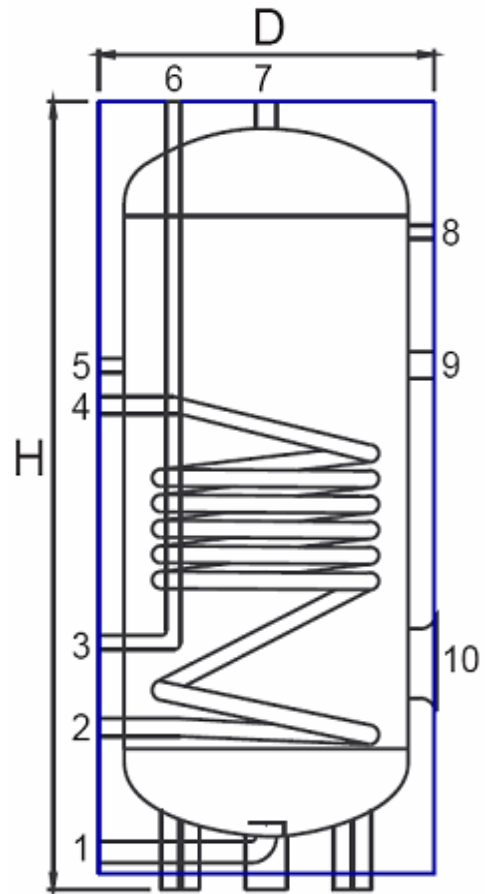
** Time to increase water temperature in the boiler from 10 to 45 °C.

BVX – DIMENSIONS

Model	Nominal volume (litres)	Diameter (mm)	Height (mm)	Insulation thickness (mm)	Weight (kg)
BVX 200	200	550	1.420	30	53
BVX 300	300	650	1.460	30	75
BVX 400	400	700	1.640	30	100
BVX 500	500	700	1.900	30	111
BVX 600	600	800	2.130	30	121
BVX 800	800	1.000	2.050	30	164
BVX 1000	1000	1.000	2.300	30	176

Key :

- 1 Sanitary water inlet / discharge
- 2 Primary outlet
- 3 Condense discharge probe
- 4 Primary inlet
- 5 Recirculation
- 6 Pipe for probe support
- 7 Sanitary water outlet
- 8 Control panel support
- 9 Electric resistance support
- 10 Inspection door



BVXS – TECHNICAL DATA*

Model	Heat loss at 65 °C (kWh/24h)	Lower heat exchanger					Upper heat exchanger				
		Power* (kW)	Heating time*** (minutes)	DHW **			Power* (kW)	Heating time**** (minutes)	DHW **		
				Continuous flow (litres/hours)	Flow rate in the first 10' (litres)	Flow rate in the first 60' (litres)			Continuous flow (litres/hours)	Flow rate in the first 10' (litres)	Flow rate in the first 60' (litres)
BVXS 200	2,43	49	15	1200	287	1287	19	18	417	160	505
BVXS 300	1,58	55	17	1367	264	1403	19	20	417	250	680
BVXS 400	2,20	55	19	1367	402	1536	22	22	483	330	1140
BVXS 500	2,43	83	18	2055	558	2270	45	20	980	450	1265
BVXS 600	2,65	83	21	2055	650	2363	45	23	980	540	1355
BVXS 800	2,62	96	20	2364	1422	3391	49	24	1048	645	1610
BVXS 1000	5,41	131	19	3231	1823	4515	49	31	1048	760	1720

Model	Max working pressure (bar)	Lower heat exchanger			Upper heat exchanger		
		Heat exchange volume (litres)	Heat exchange surface (m ²)	Load Losses** (kpa)	Heat exchange volume (litres)	Heat exchange surface (m ²)	Load Losses** (kpa)
BVXS 200	6	5,4	1,00		2,7	0,50	1.20
BVXS 300	6	8,9	1,27	1,80	2,7	0,50	1.20
BVXS 400	6	8,9	1,27	1,80	4,5	0,65	1.30
BVXS 500	6	13,3	2,00	2,40	6,7	1,00	1,60
BVXS 600	6	13,3	2,00	2,40	6,7	1,00	1,60
BVXS 800	6	22,0	2,40	2,60	11,0	1,20	1,80
BVXS 1000	6	29,0	3,20	5,40	11,0	1,20	1,80

* With only one coil working

** Performances calculated assuming:

primary circuit inlet/outlet temperature 80/70 °C

secondary circuit inlet/outlet temperature 12/45 °C

storage temperature 60 °C

*** Time to increase water temperature in the boiler from 10 to 60 °C.

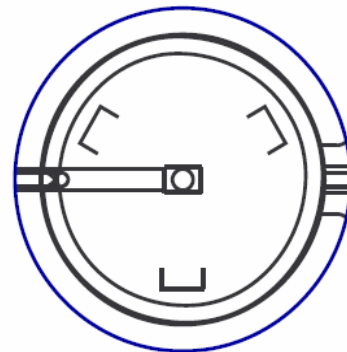
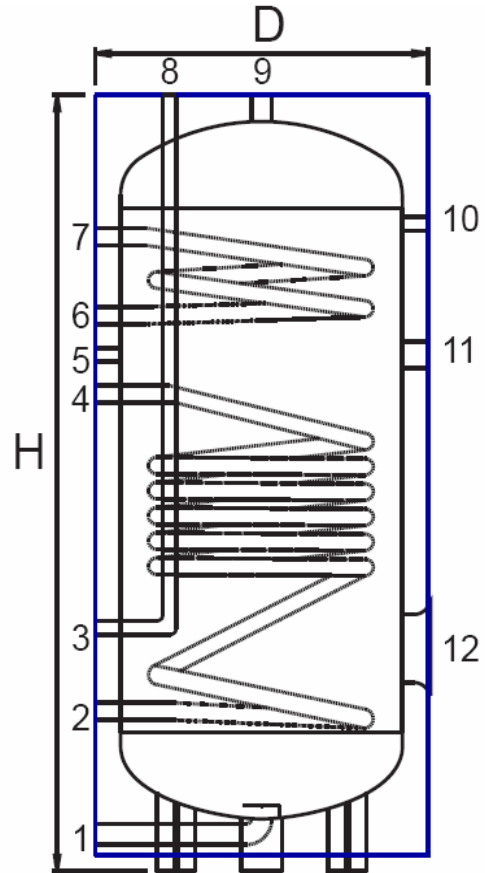
*** Time to increase water temperature in the upper part of the boiler related to the upper coil (40% of total) from 10 to 60 °C.

BVXS - DIMENSIONS

Model	Nominal volume (litres)	Diameter (mm)	Height (mm)	Insulation thickness (mm)	Weight (kg)
BVX 200	200	550	1.420	30	62
BVX 300	300	650	1.460	30	93
BVX 400	400	700	1.640	30	114
BVX 500	500	700	1.900	30	123
BVX 600	600	800	2.130	30	133
BVX 800	800	1.000	2.050	30	182
BVX 1000	1.000	1.000	2.300	30	197

Key :

- 1 Sanitary water inlet / discharge
- 2 Primary outlet
- 3 Condense discharge probe
- 4 Primary inlet
- 5 Recirculation
- 6 Secondary outlet
- 7 Secondary inlet
- 8 Pipe for probe support
- 9 Sanitary water outlet
- 10 Control panel support
- 11 Electric resistance support
- 12 Inspection door



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