



## BV2V - Glass lined calorifier with two removable heat exchangers

## BV2K - Keramtech lined calorifier with two removable heat exchangers

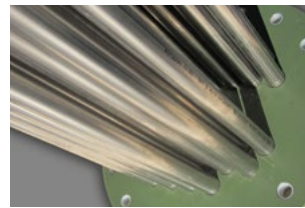
Calorifier for the production and storage of domestic hot water (DHW). The cylinder is made of carbon steel and is internally protected by glass lining (Mod. BV2V for capacities up to 2.000 litres) or with Keramtech ceramic lining (Mod. BV2K for capacities from 2000 to 5000 litres).

The tank is equipped with two stainless steel U tube bundle removable heat exchanger. The lower heat exchanger is bent down in order to avoid the growth of bacteria in the coldest part of the cylinder. Cylinders are also prepared to host a backup immersion heater (not supplied).

HEAT SOURCE



APPLICATION



### TECHNICAL FEATURES

DHW cylinder

Heat exchanger

General features

	BV2V	BV2K
Material	Glass lined S 235 Jr Carbon steel	Keramtech lined S235 Jr Carbon steel
Internal protective treatment	Enamelling according to DIN 4753.3	Alimentary epoxy-ceramic lining
External protective treatment	Anti rust protection + epoxy painting	Anti rust protection + epoxy painting
Rating (P max. / T max.)	8 bar / 95°C	6 bar / 100 °C
Cathodic protection	Magnesium anode	Magnesium anode
Material	Stainless steel	
Type	U tube bundle expanded over a removable plate	
Rating (P max. / T max.)	10 bar / 95°C	
Capacity	200 - 2000 L	2000 - 5000 L
Warranty	5 years (DHW cylinder) - 2 years (heat exchanger)	
Insulation	- Soft insulation with polyester + PVC: Fire retardant class B2 (DIN 4102) - Hard insulation: - up to 2000 L with polyurethane foam + PVC: Fire retardant class B3 (DIN 4102) - from 2500 to 5000 L with polyester (15 mm) + polystyrene (85 mm) + PVC: Fire retardant class B2 (DIN 4102)	
In compliance with	- Pressure Equipment Directive (PED) 2014/68/UE Art. 4 Para 3 - Italian MOH specifications (products suitable to contain potable water) - Energy related Products (Erp) Directive 2009/125/CE	

### ACCESSORIES (page 218)



Impressed current electronic anode



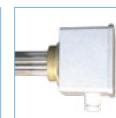
Electronic control unit



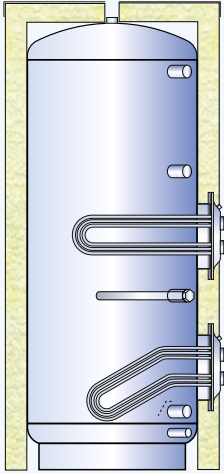
Thermostat



Thermometer



1½ electric immersion heater

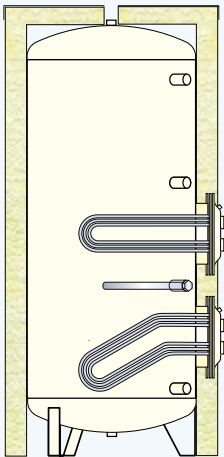


### BV2VI - Hard insulation with rigid polyurethane foam and PVC jacket

CODE	INSULATION THICK. (mm)	ErP CLASS	HEAT LOSS S (W)	REAL CAPACITY (L)	LOWER HEAT EXCHANGER (m <sup>2</sup> ) / (L) *	UPPER HEAT EXCHANGER (m <sup>2</sup> ) / (L) *
BV2VI 00200 R	50	C	65,7	193,1	0,50 / 2,6	0,50 / 2,6
BV2VI 00300 R	50	C	77,2	293,6	0,75 / 4,3	0,75 / 4,3
BV2VI 00500 R	50	C	89,6	503,6	1,00 / 6,1	1,00 / 6,1
BV2VI 00800 R	100	C	119,7	760,5	2,00 / 10,4	1,50 / 6,6
BV2VI 01000 R	100	C	123,6	942,2	3,00 / 15,7	2,00 / 10,4
BV2VI 01500 R	100	C	142,8	1483,6	3,00 / 15,7	3,00 / 15,7
BV2VI 02000 R	100	C	156,6	1967,2	4,00 / 21,7	4,00 / 21,7

### BV2VI - Soft insulation with polyester and PVC jacket

CODE	INSULATION THICK. (mm)	ErP CLASS	HEAT LOSS S (W)	REAL CAPACITY (L)	LOWER HEAT EXCHANGER (m <sup>2</sup> ) / (L) *	UPPER HEAT EXCHANGER (m <sup>2</sup> ) / (L) *
BV2VI 00800 F	130	C	134,1	760,5	2,00 / 10,4	1,50 / 6,6
BV2VI 01000 F	130	C	144,4	942,2	3,00 / 15,7	2,00 / 10,4
BV2VI 01500 F	130	C	170,5	1483,6	3,00 / 15,7	3,00 / 15,7
BV2VI 02000 F	130	C	186,2	1967,2	4,00 / 21,7	4,00 / 21,7

 CALORIFIERS WITH  
 REMOVABLE HEAT  
 EXCHANGERS


### BV2KI - Hard insulation and PVC jacket

CODE	INSULATION THICK. (mm)	ErP CLASS	HEAT LOSS S (W)	REAL CAPACITY (L)	LOWER HEAT EXCHANGER (m <sup>2</sup> ) / (L) *	UPPER HEAT EXCHANGER (m <sup>2</sup> ) / (L) *
BV2KI 02000 R	100	C	159,3	1971,1	4,00 / 21,7	4,00 / 21,7
BV2KI 02500 R	100	-	-	2514,6	5,00 / 27,4	4,00 / 21,7
BV2KI 03000 R	100	-	-	2978,6	6,00 / 33,1	5,00 / 27,4
BV2KI 04000 R	100	-	-	3915,5	8,00 / 42,9	8,00 / 42,9
BV2KI 05000 R	100	-	-	5026,3	10,00 / 34,3	10,00 / 34,3

### BV2KI - Soft insulation with polyester and PVC jacket

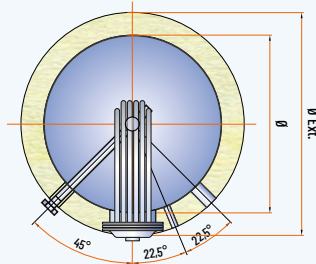
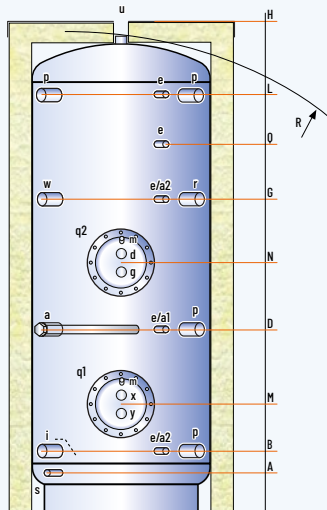
CODE	INSULATION THICK. (mm)	ErP CLASS	HEAT LOSS S (W)	REAL CAPACITY (L)	LOWER HEAT EXCHANGER (m <sup>2</sup> ) / (L) *	UPPER HEAT EXCHANGER (m <sup>2</sup> ) / (L) *
BV2KI 02000 F	130	C	189,1	1971,1	4,00 / 21,7	4,00 / 21,7
BV2KI 02500 F	100	-	-	2514,6	5,00 / 27,4	4,00 / 21,7
BV2KI 03000 F	100	-	-	2978,6	6,00 / 33,1	5,00 / 27,4
BV2KI 04000 F	100	-	-	3915,5	8,00 / 42,9	8,00 / 42,9
BV2KI 05000 F	100	-	-	5026,3	10,00 / 34,3	10,00 / 34,3

\* Volume occupied by the heat exchanger and its support structure

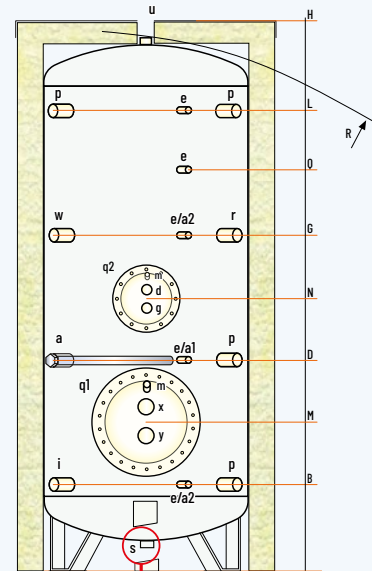
### LEGEND

- a . Magnesium anode
- a1-a2. Opening for electronic anode
- d . Boiler flow
- e . Thermometer - Sensor
- g . Boiler return
- i . Domestic cold water inlet
- m. Heat exchanger vent
- p . Free connection
- q1-q2. Heat exchanger flange
- r . Recirculation
- s . Drain
- u . Domestic hot water outlet
- x . Solar system flow
- y . Solar system return
- w . Opening for immersion heater

### BV2V



### BV2K



### KDS - Drain Kit

MODEL	DIMENSIONS (mm)		Ø EXT **		LOWER HEAT EXCHANGER (m <sup>2</sup> )	UPPER HEAT EXCHANGER (m <sup>2</sup> )	Electronic anode (optional)	WEIGHT (kg)
	Ø	H	(Hard/Soft ins.)	R *				
BV2VI 00200 R	450	1320	550	1440	0,50	0,50	a1 (EPS 375/125)	83
BV2VI 00300 R	500	1610	600	1730	0,75	0,75	a1 (EPS 375/125)	99
BV2VI 00500 R	650	1835	750	1835	1,00	1,00	a1 (EPS 375/125)	124
BV2VI 00800_	790	1750	990/1050	1745	2,00	1,50	a1 (EPS 375/125)	218
BV2VI 01000_	790	2110	990/1050	2095	3,00	2,00	a1 (EPS 375/125)	258
BV2VI 01500_	1000	2115	1200/1260	2145	3,00	3,00	a2 (EPS 375/125)	359
BV2VI 02000_	1100	2380	1300/1360	2465	4,00	4,00	a2 (EPS 375/125)	496
BV2KI 02000_	1100	2465	1300/1360	2465	4,00	4,00	a2 (EPS 375/125)	354
BV2KI 02500_	1200	2595	1400	2640	5,00	4,00	a2 (EPS 700/200)	411
BV2KI 03000_	1250	2795	1450	2835	6,00	5,00	a2 (EPS 700/200)	465
BV2KI 04000_	1400	2925	1600	2995	8,00	8,00	a2 (EPS 700/200)	652
BV2KI 05000_	1600	2955	1800	3090	10,00	10,00	a2 (EPS 700/200)	756

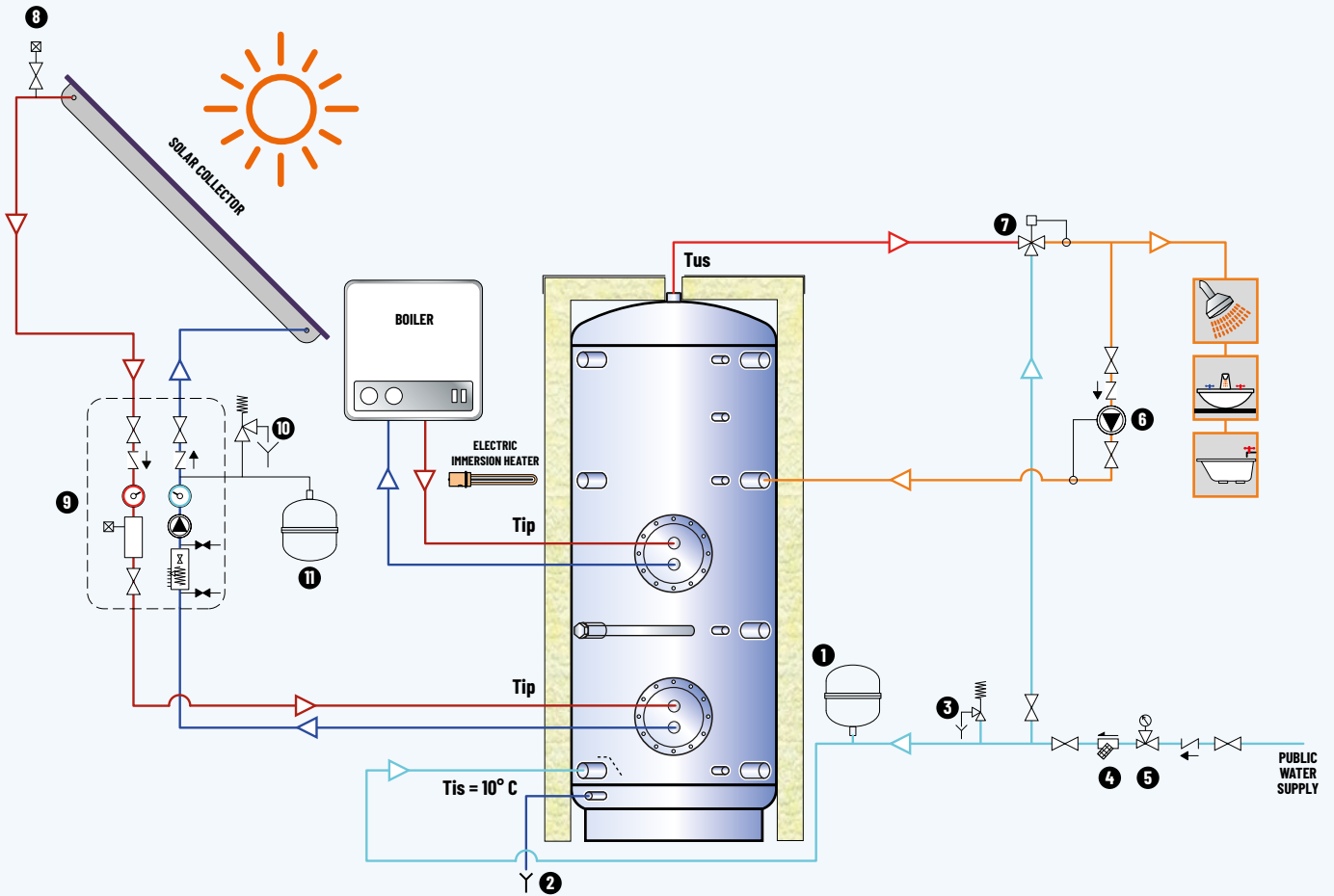
\* For capacities from 200 to 500 litres, the tilt height refers to the insulated cylinder  
 \*\* The insulation is removable except for models from 200 to 500 litres

MODEL	HEIGHTS (mm)								CONNECTIONS (GAS)								
	A	B	D	G	L	M	N	Ø	a pr	d g xy	e	i u	m	s	w	q1	q2
BV2VI 00200 R	110	190	515	890	1075	350	785	975	1"¼	1"	½"	1"¼	¾"	1"	1"½	220/290	220/290
BV2VI 00300 R	110	215	595	1080	1350	375	870	1215	1"¼	1"	½"	1"¼	¾"	1"	1"½	220/290	220/290
BV2VI 00500 R	135	240	615	1105	1375	445	890	1240	1"¼	1"	½"	1"¼	¾"	1"	1"½	220/290	220/290
BV2VI 00800_	150	275	655	1145	1410	450	970	1280	1"¼	2"	½"	1"½	¾"	1"	1"½	300/380	300/380
BV2VI 01000_	150	275	810	1355	1755	455	1045	1555	1"¼	2"	½"	1"½	¾"	1"	1"½	300/380	300/380
BV2VI 01500_	235	340	765	1400	1725	520	1080	1250	1"¼	2"	½"	2"	¾"	1"	1"½	300/380	300/380
BV2VI 02000_	265	370	930	1435	1945	575	1180	1565	1"¼	2"	½"	2"	¾"	1"	1"½	350/430	350/430
BV2KI 02000_	-	475	1010	1515	1975	680	1260	1645	1"¼	2"	½"	2"	¾"	1"¼	1"½	400/480	350/430
BV2KI 02500_	-	505	1040	1600	2105	715	1290	1750	1"¼	2"	½"	2"	¾"	1"¼	1"½	400/480	350/430
BV2KI 03000_	-	515	1100	1730	2300	700	1415	1880	1"¼	2"	½"	3"	¾"	1"¼	1"½	400/480	350/430
BV2KI 04000_	-	595	1190	1815	2380	780	1505	1965	1"¼	2"	½"	3"	¾"	1"¼	1"½	400/480	350/430
BV2KI 05000_	-	600	1185	1815	2385	785	1505	1965	1"¼	2"	½"	3"	¾"	1"¼	1"½	400/480	350/430

*Disclaimer: this layout is purely indicative. It does not replace consultant's design*

**LEGEND**

- |   |                             |                                      |
|---|-----------------------------|--------------------------------------|
| 1 . Domestic water expansion vessel     | 5 . Pressure reducing valve | 9 . Solar system control unit        |
| 2 . Domestic water drain                | 6 . DWH Recirculation pump  | 10 . Solar system safety kit (6 bar) |
| 3 . Domestic water safety valve (6 bar) | 7 . DWH 3-way valve         | 11 . Solar system expansion vessel   |
| 4 . Strainer                            | 8 . Vent with valve         |                                      |



CALORIFIERS WITH  
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