



## BV1V - Glass lined calorifier with removable heat exchanger

## BV1K - Keramtech lined calorifier with removable heat exchanger

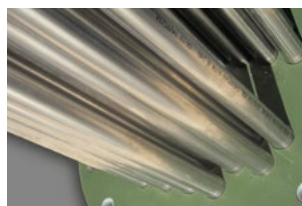
Calorifier for the production and storage of domestic hot water (DHW). The cylinder is made of carbon steel and is internally protected by glass lining (Mod. BV1V for capacities up to 2.000 litres) or with Keramtech ceramic lining (Mod. BV1K for capacities from 2000 to 5000 litres).

The tank is equipped with a stainless steel U tube bundle removable heat exchanger. The 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

	BV1V	BV1K
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



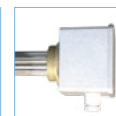
Electronic control unit



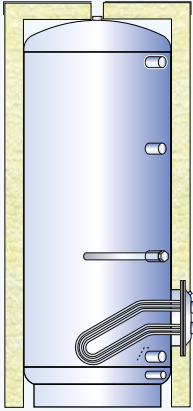
Thermostat



Thermometer



1 1/2 electric immersion heater

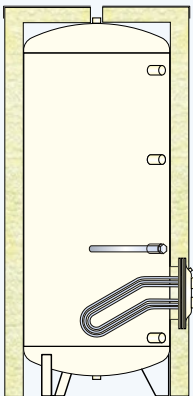


### BV1V - Hard insulation with rigid polyurethane foam and PVC jacket

CODE	INSULATION THICK. (mm)	ErP CLASS	HEAT LOSS S (W)	REAL CAPACITY (L)	HEAT EXCHANGER (m <sup>2</sup> ) / (L) *
BV1V 00200 R	50	C	62,2	191,2	0,50 / 2,6
BV1V 00300 R	50	C	73,7	291,7	0,75 / 4,3
BV1V 00500 R	50	C	86,1	501,7	1,00 / 6,1
BV1V 00800 R	100	C	113,8	754,9	1,50 / 6,6
BV1V 01000 R	100	C	117,6	936,6	2,00 / 10,4
BV1V 01500 R	100	C	136,7	1478,0	3,00 / 15,7
BV1V 02000 R	100	C	149,0	1958,6	4,00 / 21,7

### BV1V - Soft insulation with polyester and PVC jacket

CODE	INSULATION THICK. (mm)	ErP CLASS	HEAT LOSS S (W)	REAL CAPACITY (L)	HEAT EXCHANGER (m <sup>2</sup> ) / (L) *
BV1V 00800 F	130	C	132,6	754,9	1,50 / 6,6
BV1V 01000 F	130	C	143,9	936,6	2,00 / 10,4
BV1V 01500 F	130	C	169,2	1478,0	3,00 / 15,7
BV1V 02000 F	130	C	182,7	1958,6	4,00 / 21,7



### BV1K - Hard insulation and PVC jacket

CODE	INSULATION THICK. (mm)	ErP CLASS	HEAT LOSS S (W)	REAL CAPACITY (L)	HEAT EXCHANGER (m <sup>2</sup> ) / (L) *
BV1K 02000 R	100	C	185,6	1962,5	4,00 / 21,7
BV1K 02500 R	100	-	-	2506,0	5,00 / 27,4
BV1K 03000 R	100	-	-	2970,0	6,00 / 33,1
BV1K 04000 R	100	-	-	3906,9	8,00 / 42,9
BV1K 05000 R	100	-	-	5017,7	10,00 / 51,5

### BV1K - Soft insulation with polyester and PVC jacket

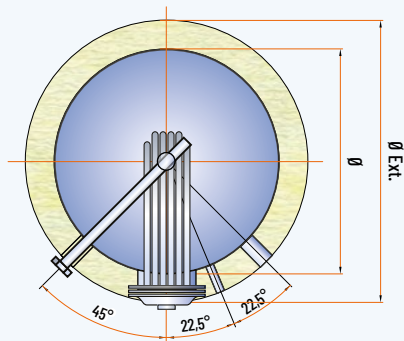
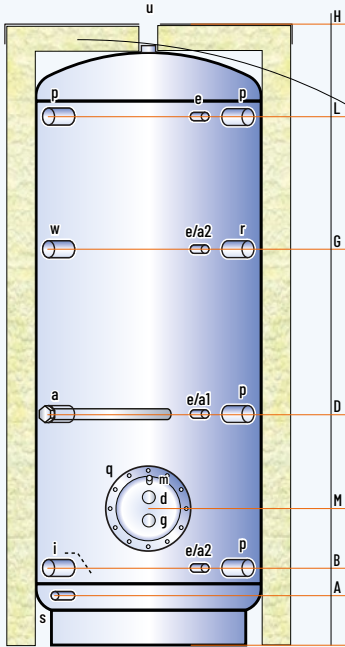
CODE	INSULATION THICK. (mm)	ErP CLASS	HEAT LOSS S (W)	REAL CAPACITY (L)	HEAT EXCHANGER (m <sup>2</sup> ) / (L) *
BV1K 02000 F	130	C	151,4	1962,5	4,00 / 21,7
BV1K 02500 F	100	-	-	2506,0	5,00 / 27,4
BV1K 03000 F	100	-	-	2970,0	6,00 / 33,1
BV1K 04000 F	100	-	-	3906,9	8,00 / 42,9
BV1K 05000 F	100	-	-	5017,7	10,00 / 51,5

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

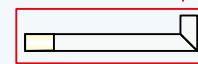
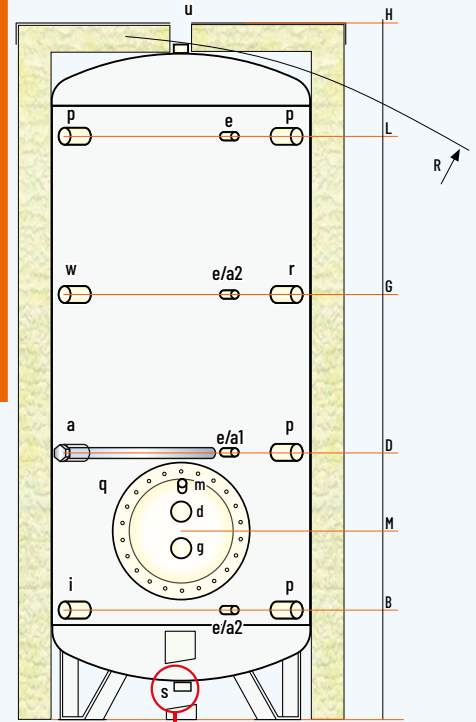
### LEGEND

- 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
- q . Heat exchanger flange
- r . Recirculation
- s . Drain
- u . Domestic hot water outlet
- w . Opening for immersion heater

### BV1V



### BV1K



KDS - Drain Kit

MODEL	DIMENSIONS (mm)		Ø EXT **	R *	HEAT EXCHANGER	Electronic anode	WEIGHT
	Ø	H	(Hard/Soft ins.)		(m <sup>2</sup> )	(optional)	(kg)
BV1V1 00200 R	450	1320	550	1440	0,50	a1 (EPS 375/125)	65
BV1V1 00300 R	500	1610	600	1730	0,75	a1 (EPS 375/125)	80
BV1V1 00500 R	650	1660	750	1835	1,00	a1 (EPS 375/125)	104
BV1V1 00800_	790	1750	990/1050	1745	1,50	a1 (EPS 375/125)	177
BV1V1 01000_	790	2110	990/1050	2095	2,00	a1 (EPS 375/125)	203
BV1V1 01500_	1000	2115	1200/1260	2145	3,00	a2 (EPS 375/125)	314
BV1V1 02000_	1100	2380	1300/1360	2465	4,00	a2 (EPS 375/125)	443
BV1K1 02000_	1100	2465	1300/1360	2465	4,00	a2 (EPS 375/125)	301
BV1K1 02500_	1200	2595	1400	2640	5,00	a2 (EPS 700/200)	374
BV1K1 03000_	1250	2795	1450	2835	6,00	a2 (EPS 700/200)	386
BV1K1 04000_	1400	2925	1600	2995	8,00	a2 (EPS 700/200)	564
BV1K1 05000_	1600	2955	1800	3090	10,00	a2 (EPS 700/200)	660

\* 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	a	p	d	g	e	i	u	m	s	w
BV1V1 00200 R	110	190	515	890	1075	350	1"¼	1"	½"	1"¼	¾"	1"	1"½	220/290		
BV1V1 00300 R	110	215	595	1080	1350	375	1"¼	1"	½"	1"¼	¾"	1"	1"½	220/290		
BV1V1 00500 R	135	240	615	1105	1375	445	1"¼	1"	½"	1"¼	¾"	1"	1"½	220/290		
BV1V1 00800_	150	275	655	1145	1410	450	1"¼	2"	½"	1"½	¾"	1"	1"½	300/380		
BV1V1 01000_	150	275	810	1355	1755	455	1"¼	2"	½"	1"½	¾"	1"	1"½	300/380		
BV1V1 01500_	235	340	765	1400	1725	520	1"¼	2"	½"	2"	¾"	1"	1"½	300/380		
BV1V1 02000_	265	370	930	1435	1945	575	1"¼	2"	½"	2"	¾"	1"	1"½	350/430		
BV1K1 02000_	-	475	1010	1515	1975	680	1"¼	2"	½"	2"	¾"	1"¼	1"½	400/480		
BV1K1 02500_	-	505	1040	1600	2105	715	1"¼	2"	½"	2"	¾"	1"¼	1"½	400/480		
BV1K1 03000_	-	515	1100	1730	2300	700	1"¼	2"	½"	3"	¾"	1"¼	1"½	400/480		
BV1K1 04000_	-	595	1190	1815	2380	780	1"¼	2"	½"	3"	¾"	1"¼	1"½	400/480		
BV1K1 05000_	-	600	1185	1815	2385	785	1"¼	2"	½"	3"	¾"	1"¼	1"½	400/480		