BV1V - Glass lined calorifier with removable heat exchanger

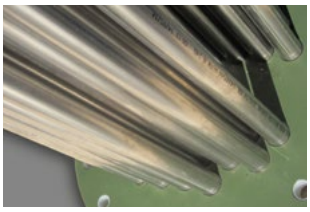
BV1K - Keramtech lined calorifier with removable heat exchanger

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

		BV1V	BV1K
DHW cylinder	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
Heat exchanger	Material	Stainless steel	
	Type	U tube bundle expanded over a removable plate	
	Rating (P max. / T max.)	10 bar / 95°C	
General features	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)

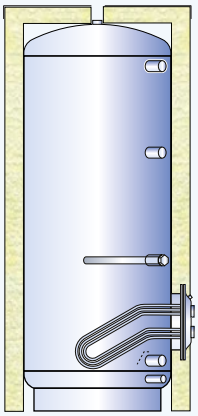
Impressed current electronic anode

Electronic control unit

Thermostat

Thermometer

1"½ electric immersion heater

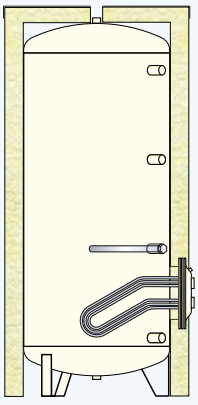


BV1VI - Hard insulation with rigid polyurethane foam and PVC jacket

CODE	INSULATION THICK. (mm)	ErP CLASS	HEAT LOSS S (W)	REAL CAPACITY (L)	HEAT EXCHANGER (m^2) / (L) *
BV1VI 00200 R	50	C	62,2	191,2	0,50 / 2,6
BV1VI 00300 R	50	C	73,7	291,7	0,75 / 4,3
BV1VI 00500 R	50	C	86,1	501,7	1,00 / 6,1
BV1VI 00800 R	100	C	113,8	754,9	1,50 / 6,6
BV1VI 01000 R	100	C	117,6	936,6	2,00 / 10,4
BV1VI 01500 R	100	C	136,7	1478,0	3,00 / 15,7
BV1VI 02000 R	100	C	149,0	1958,6	4,00 / 21,7

BV1VI - Soft insulation with polyester and PVC jacket

CODE	INSULATION THICK. (mm)	ErP CLASS	HEAT LOSS S (W)	REAL CAPACITY (L)	HEAT EXCHANGER (m^2) / (L) *
BV1VI 00800 F	130	C	132,6	754,9	1,50 / 6,6
BV1VI 01000 F	130	C	143,9	936,6	2,00 / 10,4
BV1VI 01500 F	130	C	169,2	1478,0	3,00 / 15,7
BV1VI 02000 F	130	C	182,7	1958,6	4,00 / 21,7



BV1KI - Hard insulation and PVC jacket

CODE	INSULATION THICK. (mm)	ErP CLASS	HEAT LOSS S (W)	REAL CAPACITY (L)	HEAT EXCHANGER (m^2) / (L) *
BV1KI 02000 R	100	C	185,6	1962,5	4,00 / 21,7
BV1KI 02500 R	100	-	-	2506,0	5,00 / 27,4
BV1KI 03000 R	100	-	-	2970,0	6,00 / 33,1
BV1KI 04000 R	100	-	-	3906,9	8,00 / 42,9
BV1KI 05000 R	100	-	-	5017,7	10,00 / 51,5

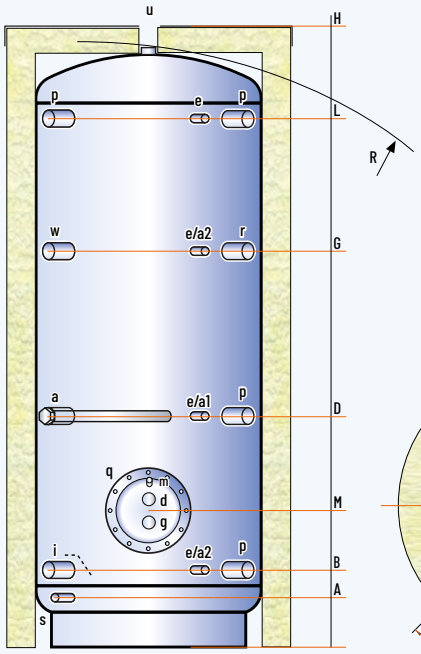
BV1KI - Soft insulation with polyester and PVC jacket

CODE	INSULATION THICK. (mm)	ErP CLASS	HEAT LOSS S (W)	REAL CAPACITY (L)	HEAT EXCHANGER (m^2) / (L) *
BV1KI 02000 F	130	C	151,4	1962,5	4,00 / 21,7
BV1KI 02500 F	100	-	-	2506,0	5,00 / 27,4
BV1KI 03000 F	100	-	-	2970,0	6,00 / 33,1
BV1KI 04000 F	100	-	-	3906,9	8,00 / 42,9
BV1KI 05000 F	100	-	-	5017,7	10,00 / 51,5

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

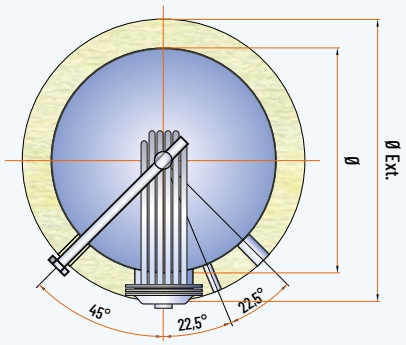
Dimensions and heights

BV1V

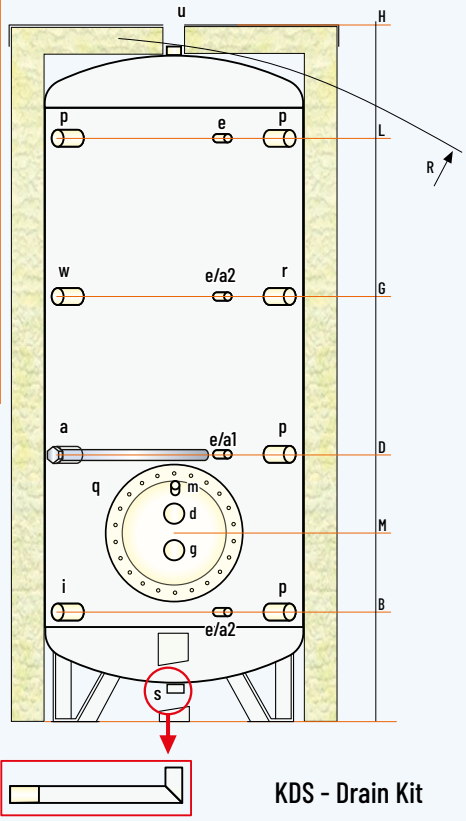


LEGEND

- **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



BV1K



KDS - Drain Kit

MODEL	DIMENSIONS (mm) Ø	H	Ø EXT ** (Hard/Soft ins.)	R *	HEAT EXCHANGER (m^2)	Electronic anode (optional)	WEIGHT (kg)
BV1VI 00200 R	450	1320	550	1440	0,50	a1 (EPS 375/125)	65
BV1VI 00300 R	500	1610	600	1730	0,75	a1 (EPS 375/125)	80
BV1VI 00500 R	650	1660	750	1835	1,00	a1 (EPS 375/125)	104
BV1VI 00800_	790	1750	990/1050	1745	1,50	a1 (EPS 375/125)	177
BV1VI 01000_	790	2110	990/1050	2095	2,00	a1 (EPS 375/125)	203
BV1VI 01500_	1000	2115	1200/1260	2145	3,00	a2 (EPS 375/125)	314
BV1VI 02000_	1100	2380	1300/1360	2465	4,00	a2 (EPS 375/125)	443
BV1KI 02000_	1100	2465	1300/1360	2465	4,00	a2 (EPS 375/125)	301
BV1KI 02500_	1200	2595	1400	2640	5,00	a2 (EPS 700/200)	374
BV1KI 03000_	1250	2795	1450	2835	6,00	a2 (EPS 700/200)	386
BV1KI 04000_	1400	2925	1600	2995	8,00	a2 (EPS 700/200)	564
BV1KI 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) A	B	D	G	L	M	CONNECTIONS (GAS) a p r	d g	e	i u	m	s	w	q
BV1VI 00200 R	110	190	515	890	1075	350	1"¼	1"	½"	1"¼	⅜"	1"	1"½	220/290
BV1VI 00300 R	110	215	595	1080	1350	375	1"¼	1"	½"	1"¼	⅜"	1"	1"½	220/290
BV1VI 00500 R	135	240	615	1105	1375	445	1"¼	1"	½"	1"¼	⅜"	1"	1"½	220/290
BV1VI 00800_	150	275	655	1145	1410	450	1"¼	2"	½"	1"½	⅜"	1"	1"½	300/380
BV1VI 01000_	150	275	810	1355	1755	455	1"¼	2"	½"	1"½	⅜"	1"	1"½	300/380
BV1VI 01500_	235	340	765	1400	1725	520	1"¼	2"	½"	2"	⅜"	1"	1"½	300/380
BV1VI 02000_	265	370	930	1435	1945	575	1"¼	2"	½"	2"	⅜"	1"	1"½	350/430
BV1KI 02000_	-	475	1010	1515	1975	680	1"¼	2"	½"	2"	⅜"	1"¼	1"½	400/480
BV1KI 02500_	-	505	1040	1600	2105	715	1"¼	2"	½"	2"	⅜"	1"¼	1"½	400/480
BV1KI 03000_	-	515	1100	1730	2300	700	1"¼	2"	½"	3"	⅜"	1"¼	1"½	400/480
BV1KI 04000_	-	595	1190	1815	2380	780	1"¼	2"	½"	3"	⅜"	1"¼	1"½	400/480
BV1KI 05000_	-	600	1185	1815	2385	785	1"¼	2"	½"	3"	⅜"	1"¼	1"½	400/480