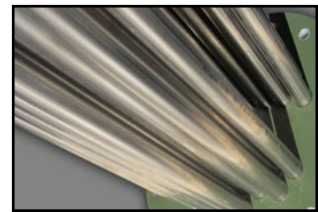
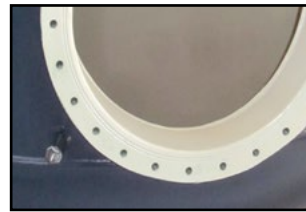


## BV1KL - Keramtech Low Size boiler with removable exchanger



Boiler for the production and storage of Sanitary Hot Water. The boiler is made of carbon steel protected by internal Keramtech processing. It is equipped with a removable heat exchanger made of copper or stainless steel tube bundle.

The heat exchanger is bent downward to prevent bacterial growth in the coldest area in the boiler.



TECHNICAL CHARACTERISTICS

Sanitary	Material:	S 235 Jr Keramtech
	Internal protective processing:	Alimentary epoxy-ceramic coating D.M. 174/04
	External protective processing:	Painting with anti rust and industrial enamel
	Operation (P max. / T max.):	6 bar / 100°C
Exchanger	Cathodic protection:	Magnesium anode
	Material:	Stainless steel or Copper
	Typology:	U-tube bundle with removable plate
General characteristics	Operation (P max. / T max.):	12 bar / 95°C
	Capacity:	2000 - 5000 Lt
	Warranty:	5 years ( <i>sanitary storage</i> ), 2 years ( <i>removable exchanger</i> )
	Insulation:	- Flexible Polyester + pvc: <i>Fire resistance class B2 (DIN4102)</i> - Polyester (15) + polystyrene (85) + pvc: <i>Fire resistance class B2 (DIN4102)</i>
	Reference legislation:	- M.D. of 6th April 2004 N.174 (suitability of materials in contact with SHW) - Directive 2009/125/CE (Energy related Products)

FITTINGS  
(pag. 152)



Electronic anode with impressed current



Electronic control unit



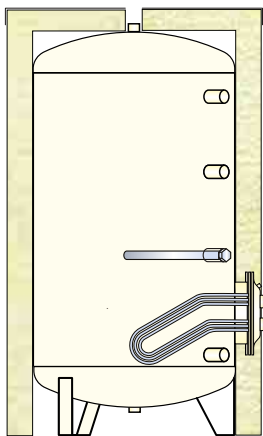
Electrical resistance 1"1/2 connection



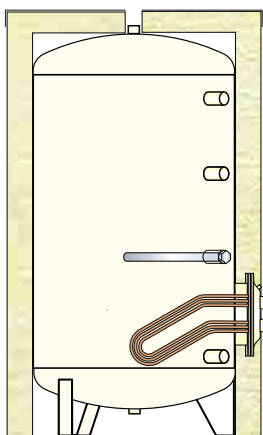
Thermostat



Thermometer



<b>BV1KLI - Keramtech boiler with Inox removable exchanger</b>						
Flexible polyester insul. 100 mm thick + pvc			Rigid insulation + pvc			
Code	ErP	€	Code	Thickness (mm)	ErP	€
BV1KLI 02000 F	E	-	BV1KLI 02000 R	100	-	-
BV1KLI 02500 F	-	-	--	--	-	-
BV1KLI 03000 F	-	-	BV1KLI 03000 R	100	-	-
BV1KLI 04000 F	-	-	BV1KLI 04000 R	100	-	-
BV1KLI 05000 F	-	-	--	--	-	-
KDS (Exhaust kit)		-				

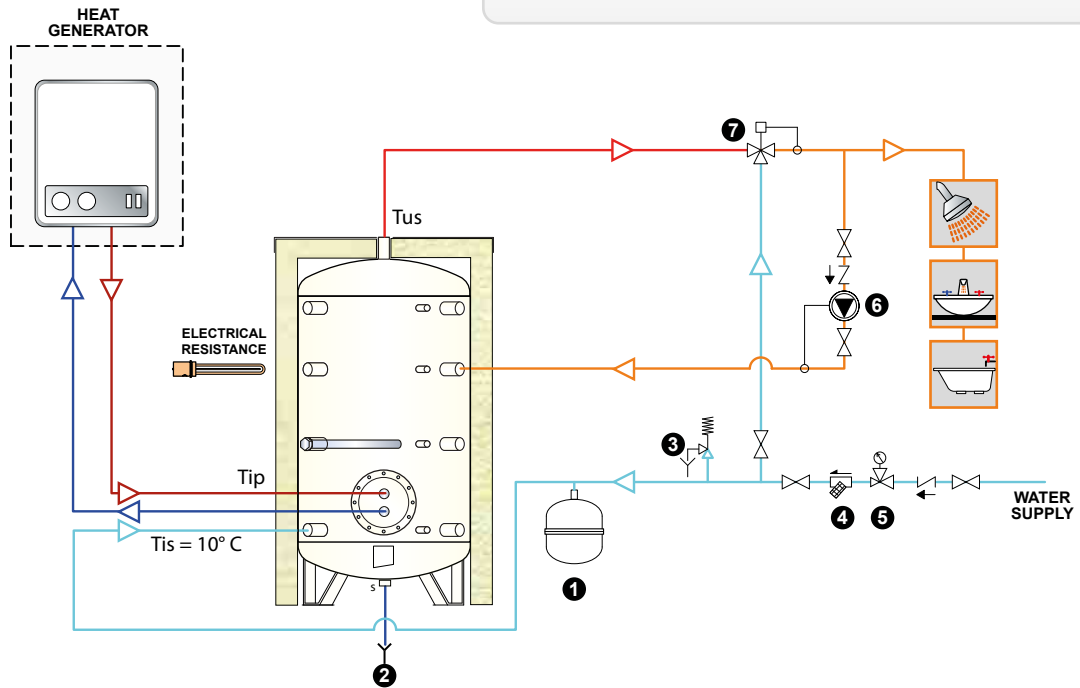
 Removable exchanger  
boilers


<b>BV1KLR - Keramtech boiler with copper removable exchanger</b>						
Flexible polyester insul. 100 mm thick + pvc			Rigid insulation + pvc			
Code	ErP	€	Code	Thickness (mm)	ErP	€
BV1KLR 02000 F	E	-	BV1KLR 02000 R	100	-	-
BV1KLR 02500 F	-	-	--	--	-	-
BV1KLR 03000 F	-	-	BV1KLR 03000 R	100	-	-
BV1KLR 04000 F	-	-	BV1KLR 04000 R	100	-	-
BV1KLR 05000 F	-	-	--	--	-	-
KDS (Exhaust kit)		-				

Caution: Indicative Schematic diagram, not substitutive for project work.

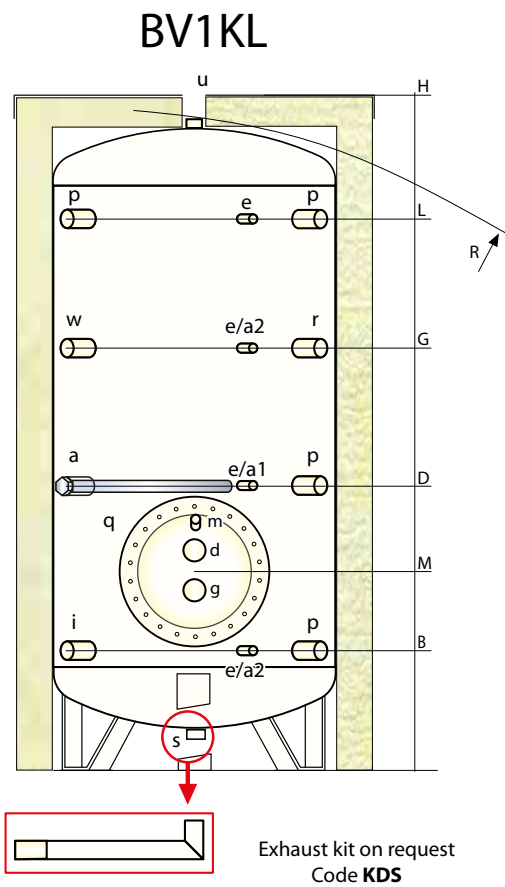
**LEGEND**

- 1. Sanitary expansion vessel
- 2. Sanitary drain
- 3. Sanitary safety valve (6 bar)
- 4. Dirt filter
- 5. Pressure reducer
- 6. Sanitary recirculation pump
- 7. Sanitary mixing valve

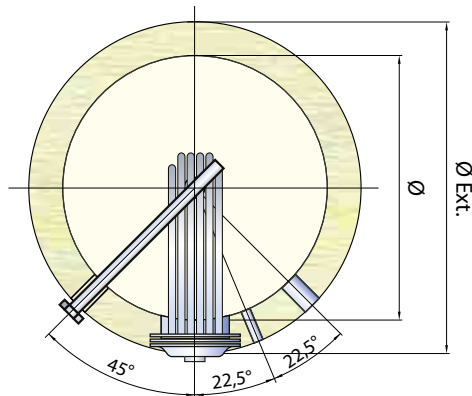


Model	lower exchanger							Amount of water in the first 10 min (Lt/10 ')
	Sq.m. (Lt)	Lt/h (mca)	Tip (°C)	production of Sanitary Hot Water				
				T <sub>us</sub> =45°C		T <sub>us</sub> =60°C		
Power (kW)	Flow (Lt/h)	Power (kW)	Flow (Lt/h)					
BV1KL_02000_	4 (17,2)	7000 (1,3)	80	94,1	2311	74,8	1287	2830
			70	74,6	1834	53,0	912	2806
BV1KL_02500F	5 (20,8)	8000 (1,3)	80	116,4	2860	92,8	1596	3507
			70	92,4	2270	65,8	1132	3484
BV1KL_03000_	5 (20,8)	10000 (1,7)	80	118,8	2918	95,0	1633	4144
			70	94,2	2315	66,7	1148	4129
BV1KL_04000_	8 (31,4)	12000 (1,7)	80	184,3	4528	148,4	2553	5496
			70	146,3	3595	104,5	1798	5482
BV1KL_05000F	10 (34,3)	15000 (1,7)	80	230,4	5660	185,5	3191	6786
			70	182,9	4494	130,7	2247	6786

For the purposes of the Directive (ErP) 2009/125/EC Regulation N° 812/2013 and N° 814/2013 the results of the energy measurements are given on page 218



- a magnesium anode
- a1 - a2 provision for the electronic anode
- d boiler flow
- e thermometer – probe
- g boiler return
- i sanitary cold water inlet
- p service connection
- q exchanger flange
- r recirculation
- s discharge
- u sanitary hot water output
- w electrical resistance provision



Removable exchanger boilers

Model	Dimensions (mm)				Exchanger (Sq.m.)	Electronic anode (optional)	Weight (Kg)
	Ø	H	Ø Ext	R			
BV1KL_02000_	1200	2315	1400	2390	4,00	a2 (EPS 375/125)	324
BV1KL_02500F	1300	2340	1500	2460	5,00	a2 (EPS 700/200)	349
BV1KL_03000_	1400	2370	1600	2520	5,00	a2 (EPS 700/200)	471
BV1KL_04000_	1600	2370	1800	2610	8,00	a2 (EPS 700/200)	548
BV1KL_05000F	1800	2370	2000	2700	10,00	a2 (EPS 700/200)	660

Model	Quotes (mm)					Connections (gas)									
	B	D	G	L	M	a	p	r	s	d	g	e	iu	w	q
BV1KL_02000_	505	950	1410	1825	715	1"1/4				2"		1/2"	2"	1"1/2	400/480
BV1KL_02500F	510	955	1415	1830	700	1"1/4				2"		1/2"	2"	1"1/2	400/480
BV1KL_03000_	595	1005	1430	1825	780	1"1/4				2"		1/2"	3"	1"1/2	400/480
BV1KL_04000_	600	1005	1425	1800	785	1"1/4				2"		1/2"	3"	1"1/2	400/480
BV1KL_05000F	615	1010	1410	1770	800	1"1/4				2"		1/2"	3"	1"1/2	400/480