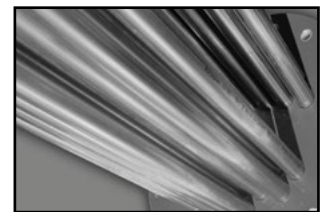
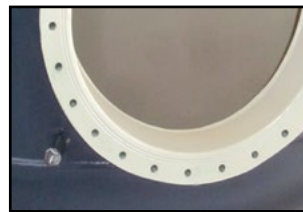


# BV1VS - Enamelled boiler with PED steam exchanger

# BV1KS - Keramtech boiler with PED steam exchanger



Boiler for the production and storage of Sanitary Hot Water. The boiler is made of carbon steel protected by internal enamelled/Keramtech processing. It is equipped with removable stainless steel AISI 316L tube bundle heat exchanger suitable to be powered with steam. The heat exchanger is equipped with a Declaration of Conformity PED (according to Annex VII of the European Directive 14/68/UE, and is bent downward to prevent bacterial growth in the coldest area in the boiler.



TECHNICAL CHARACTERISTICS

		<b>BV1VS</b>	<b>BV1KS</b>
Sanitary	Material:	S 235 Jr enamelled	S 235 Jr Keramtech
	Internal protective processing:	Inorganic alimentary enamelling DIN 4753.3	Alimentary epoxy- ceramic coating D.M. 174/04
	External protective processing:	Painting with anti rust and industrial enamel	Painting with anti rust and industrial enamel
	Operation (P max. / T max.):	8 bar / 95°C	6 bar / 100°C
	Cathodic protection:	Magnesium anode	Magnesium anode
Exchanger	Material:	Stainless steel AISI 316L on Inox plate	
	Internal protective processing:	Pickling and passivation	
	External protective processing:	Pickling and passivation	
	Typology:	U - tube bundle (steam-powered) on removable plate	
	Operation (P max. / T max.):	6 bar / 165°C o 12 bar / 191,7°C	
General characteristics	Capacity:	500 - 2000 Lt	2000 - 5000 Lt
	Warranty:	5 years ( <i>sanitary storage</i> ), 2 years ( <i>removable exchanger</i> )	
	Insulation:	- Flexible Polyester + pvc: Fire resistance class B2 (DIN4102)	
		- Rigid insulation:	
		- up to 2000 Lt in polyurethane + pvc: Fire resistance class B3 (DIN4102) - from 2500 to 5000 Lt polyester (15) + polystyrene (85) + pvc: Fire resistance class B2 (DIN4102)	
Reference legislation:	- PED 14/68/UE Art. 4 Par. 3 (Pressure equipment) - 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



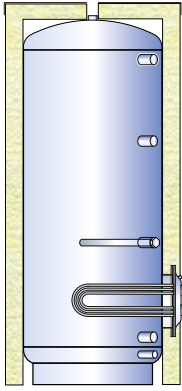
Electrical resistance 1 1/2 connection



Thermostat



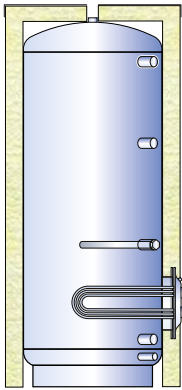
Thermometer



**BV1VS6 - Enamelled boiler with inox AISI 316l removable tested PED steam 6 bar exchanger**

Flexible polyester insul. 100 mm thick + pvc			Rigid Polyurethane insulation + pvc			
Code	ErP	€	Code	Thickness (mm)	ErP	€
	-	-	BV1VS6 00500 R	50	C	-
BV1VS6 00800 F	D	-	BV1VS6 00800 R	100	C	-
BV1VS6 01000 F	D	-	BV1VS6 01000 R	100	C	-
BV1VS6 01500 F	D	-	BV1VS6 01500 R	100	C	-
BV1VS6 02000 F	D	-	BV1VS6 02000 R	100	C	-

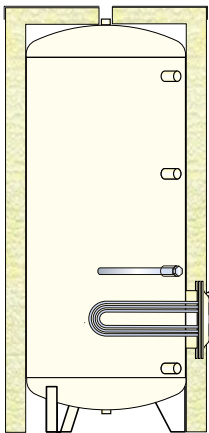
Request estimate for the horizontal version



**BV1VS12 - Enamelled boiler with inox aisi 316L removable tested PED steam 12 bar exchanger**

Flexible polyester insul. 100 mm thick + pvc			Rigid Polyurethane insulation + pvc			
Code	ErP	€	Code	Thickness (mm)	ErP	€
	-	-	BV1VS12 00500 R	50	C	-
BV1VS12 00800 F	D	-	BV1VS12 00800 R	100	C	-
BV1VS12 01000 F	D	-	BV1VS12 01000 R	100	C	-
BV1VS12 01500 F	D	-	BV1VS12 01500 R	100	C	-
BV1VS12 02000 F	D	-	BV1VS12 02000 R	100	C	-

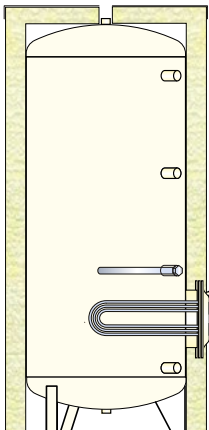
Request estimate for the horizontal version



**BV1KS6 - Keramtech boiler with inox aisi 316L removable tested PED steam 6 bar exchanger**

Flexible polyester insul. 100 mm thick + pvc			Rigid insulation + pvc			
Code	ErP	€	Code	Thickness (mm)	ErP	€
BV1KS6 02000 F	E	-	BV1KS6 02000 R	100	C	-
BV1KS6 02500 F	-	-	BV1KS6 02500 R	100	-	-
BV1KS6 03000 F	-	-	BV1KS6 03000 R	100	-	-
BV1KS6 04000 F	-	-	BV1KS6 04000 R	100	-	-
BV1KS6 05000 F	-	-	BV1KS6 05000 R	100	-	-
KDS (Exhaust kit)		-				

Horizontal version +10%

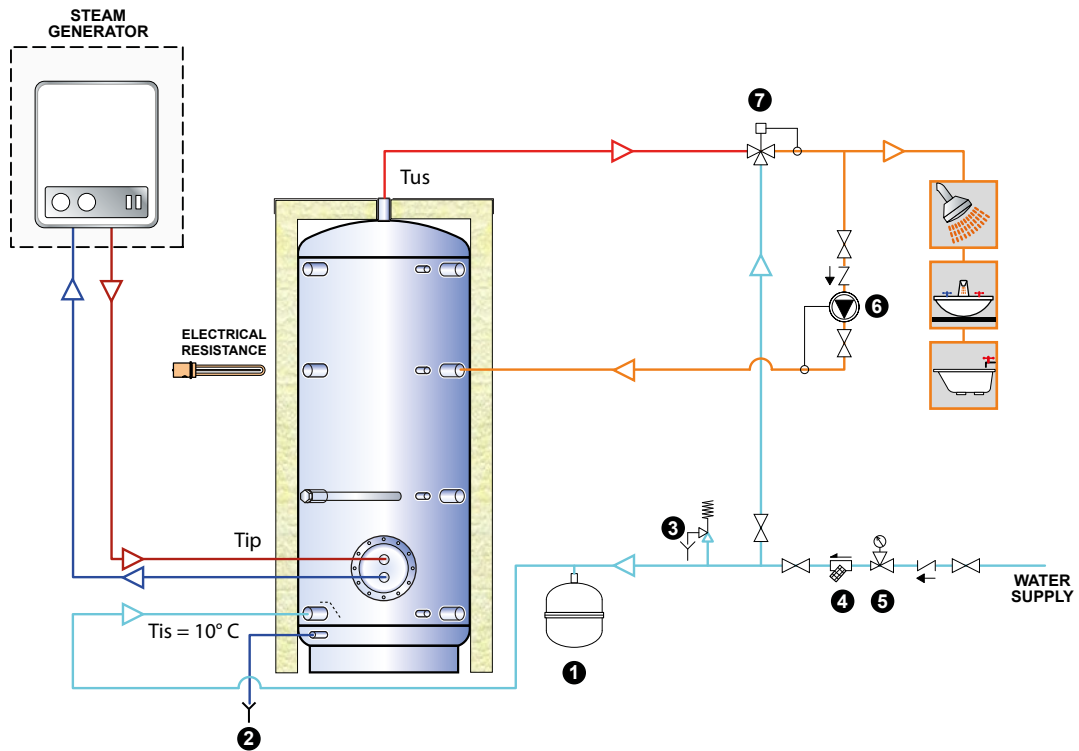


**BV1KS12 - Keramtech boiler with inox aisi 316l removable tested PED steam 12 bar exchanger**

Flexible polyester insul. 100 mm thick + pvc			Rigid insulation + pvc			
Code	ErP	€	Code	Thickness (mm)	ErP	€
BV1KS12 02000 F	E	-	BV1KS12 02000 R	100	C	-
BV1KS12 02500 F	-	-	BV1KS12 02500 R	100	-	-
BV1KS12 03000 F	-	-	BV1KS12 03000 R	100	-	-
BV1KS12 04000 F	-	-	BV1KS12 04000 R	100	-	-
BV1KS12 05000 F	-	-	BV1KS12 05000 R	100	-	-
KDS (Exhaust kit)		-				

Horizontal version +10%

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

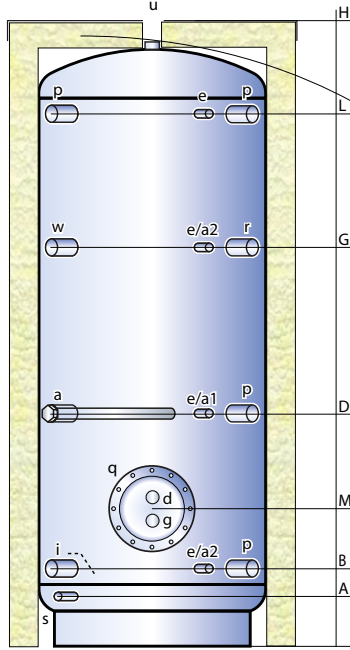
Model	Sq.m. (Lt)	steam tube bundle								Amount of water in the first ten minutes** (Lt/10')
		P=1 bar		P=3 bar		P=6 bar		P=12 bar		
		Tip=120,4°C		Tip=143°C		Tip=165°C		Tip=191,7°C		
		Power* (kW)	Flow* (Lt/h)	Power* (kW)	Flow* (Lt/h)	Power* (kW)	Flow* (Lt/h)	Power* (kW)	Flow* (Lt/h)	
BV1VS_00500R	1,0 (4,7)	89,8	2205	111,9	2751	133,5	3280	159,5	3920	985
BV1VS_00800_	1,5 (7,7)	133,3	3274	166,2	4083	198,1	4868	236,8	5818	1508
BV1VS_01000_	2,0 (9,5)	177,7	4366	221,6	5444	264,1	6490	315,7	7757	1866
BV1VS_01500_	3,0 (13,0)	266,5	6548	332,3	8166	396,2	9735	473,5	11635	2668
BV1_S_02000_	3,0 (13,0)	272,0	6684	339,3	8338	404,6	9943	483,7	11886	3211
BV1KS_02500_	3,0 (13,0)	272,0	6684	339,3	8338	404,6	9943	483,7	11886	3791
BV1KS_03000_	3,0 (13,0)	272,0	6684	339,3	8338	404,6	9943	483,7	11886	4320
BV1KS_04000_	4,0 (17,2)	355,3	8731	443,1	10888	528,3	12980	631,4	15513	5623
BV1KS_05000_	5,0 (20,8)	434,9	10685	542,1	13319	646,0	15874	772,0	18968	6786

\*Tus = 45°C

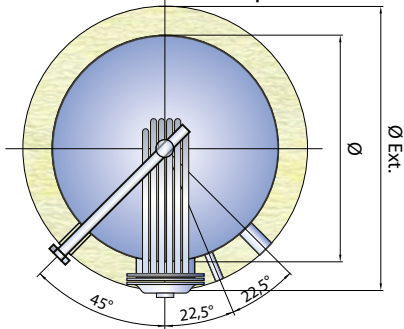
\*\* Values calculated with an exchanger powered by 6 bar-steam.

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

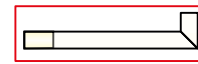
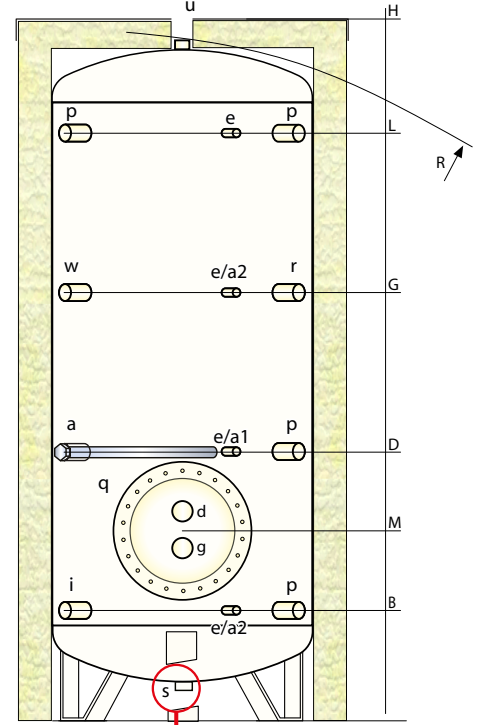
**BV1VS**



- a Magnesium anode
- a1 - a2 provision for the electronic anode
- d boiler flow
- e Thermometer - sonda
- g boiler return
- i sanitary cold water inlet
- p service connection
- q exchanger flange
- r recirculation
- s exhaust
- u sanitary hot water output
- w electrical resistance service provision



**BV1KS**



Exhaust kit on request  
(only for Keramtech version)  
Code **KDS**

Removable exchanger boilers

Model	Dimensions (mm)				Exchanger (Sq.m.)	Electronic anode (optional)	Weight (Kg)
	Ø	H	Ø Ext **	R*			
BV1VS_00500R	650	1645	750	1820	1,00	a1 (EPS 375/125)	111
BV1VS_00800_	790	1750	990	1745	1,50	a1 (EPS 375/125)	188
BV1VS_01000_	790	2110	990	2095	2,00	a1 (EPS 375/125)	216
BV1VS_01500_	1000	2115	1200	2145	3,00	a2 (EPS 375/125)	330
BV1VS_02000_	1100	2435	1300	2465	3,00	a2 (EPS 375/125)	465
BV1KS_02000_	1100	2435	1300	2465	3,00	a2 (EPS 375/125)	303
BV1KS_02500_	1200	2595	1400	2640	3,00	a2 (EPS 700/200)	348
BV1KS_03000_	1250	2795	1450	2835	3,00	a2 (EPS 700/200)	388
BV1KS_04000_	1400	2925	1600	2995	4,00	a2 (EPS 700/200)	544
BV1KS_05000_	1600	2955	1800	3090	5,00	a2 (EPS 700/200)	649

\* For capacities from 200 to 500 Lt diagonal of rollover refers to the insulated tank

\*\* All insulations are removable except for models from 200 to 500 Lt

Model	Quotes (mm)						Connections (gas)									
	A	B	D	G	L	M	a	p	d	g	e	i	u	s	w	q
BV1VS_00500R	135	240	615	1105	1375	445	1"1/4	1"	1/2"	1"1/4	1"	1"1/2	220/290			
BV1VS_00800_	150	275	655	1145	1410	450	1"1/4	2"	1/2"	1"1/2	1"	1"1/2	300/380			
BV1VS_01000_	150	275	810	1355	1755	455	1"1/4	2"	1/2"	1"1/2	1"	1"1/2	300/380			
BV1VS_01500_	235	340	765	1400	1725	520	1"1/4	2"	1/2"	2"	1"	1"1/2	300/380			
BV1VS_02000_	265	370	930	1435	1945	575	1"1/4	2"	1/2"	2"	1"	1"1/2	350/430			
BV1KS_02000_	-	475	1010	1515	1975	680	1"1/4	2"	1/2"	2"	1"1/4	1"1/2	400/480			
BV1KS_02500_	-	505	1040	1600	2105	715	1"1/4	2"	1/2"	2"	1"1/4	1"1/2	400/480			
BV1KS_03000_	-	515	1100	1730	2300	700	1"1/4	2"	1/2"	3"	1"1/4	1"1/2	400/480			
BV1KS_04000_	-	595	1190	1815	2380	780	1"1/4	2"	1/2"	3"	1"1/4	1"1/2	400/480			
BV1KS_05000_	-	600	1185	1815	2385	785	1"1/4	2"	1/2"	3"	1"1/4	1"1/2	400/480			