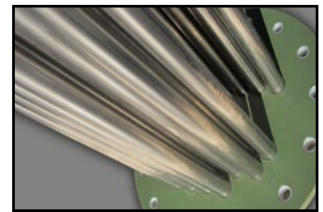


BV3V - Enamelled boiler with triple removable exchanger

BV3K - Keramtech boiler with triple removable exchanger



Boiler for the production and storage of Sanitary Hot Water. The kettle is made of carbon steel protected by internal enamelled/Keramtech treatment. It is equipped with three removable heat exchangers with stainless steel or copper tube bundle. The lower exchanger is bent downward to prevent bacterial growth in the coldest area in the boiler.



TECHNICAL CHARACTERISTICS

		BV3V	BV3K
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 o Copper	
	Typology:	U tube bundle on removable plate	
	Operation (P max. / T max.):	12 bar / 95°C	
General characteristics	Capacity:	1500 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



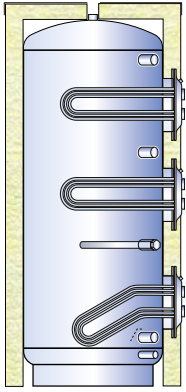
Electrical resistance 1 1/2 connection



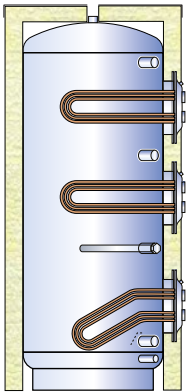
Thermostat



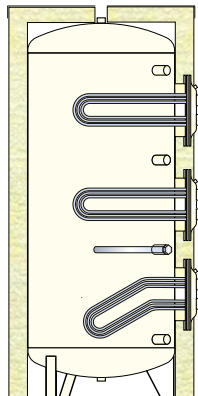
Thermometer



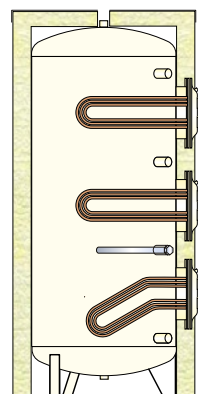
BV3VI - Enamelled boiler with triple inox removable exchanger						
Flexible polyester insul. 100 mm thick + pvc			Rigid Polyurethane insulation + pvc			
Code	ErP	€	Code	Thickness (mm)	ErP	€
BV3VI 01500 F	E	-	BV3VI 01500 R	100	C	-



BV3VR - Enamelled boiler with triple copper removable exchanger						
Flexible polyester insul. 100 mm thick + pvc			Rigid Polyurethane insulation + pvc			
Code	ErP	€	Code	Thickness (mm)	ErP	€
BV3VR 01500 F	E	-	BV3VR 01500 R	100	C	-



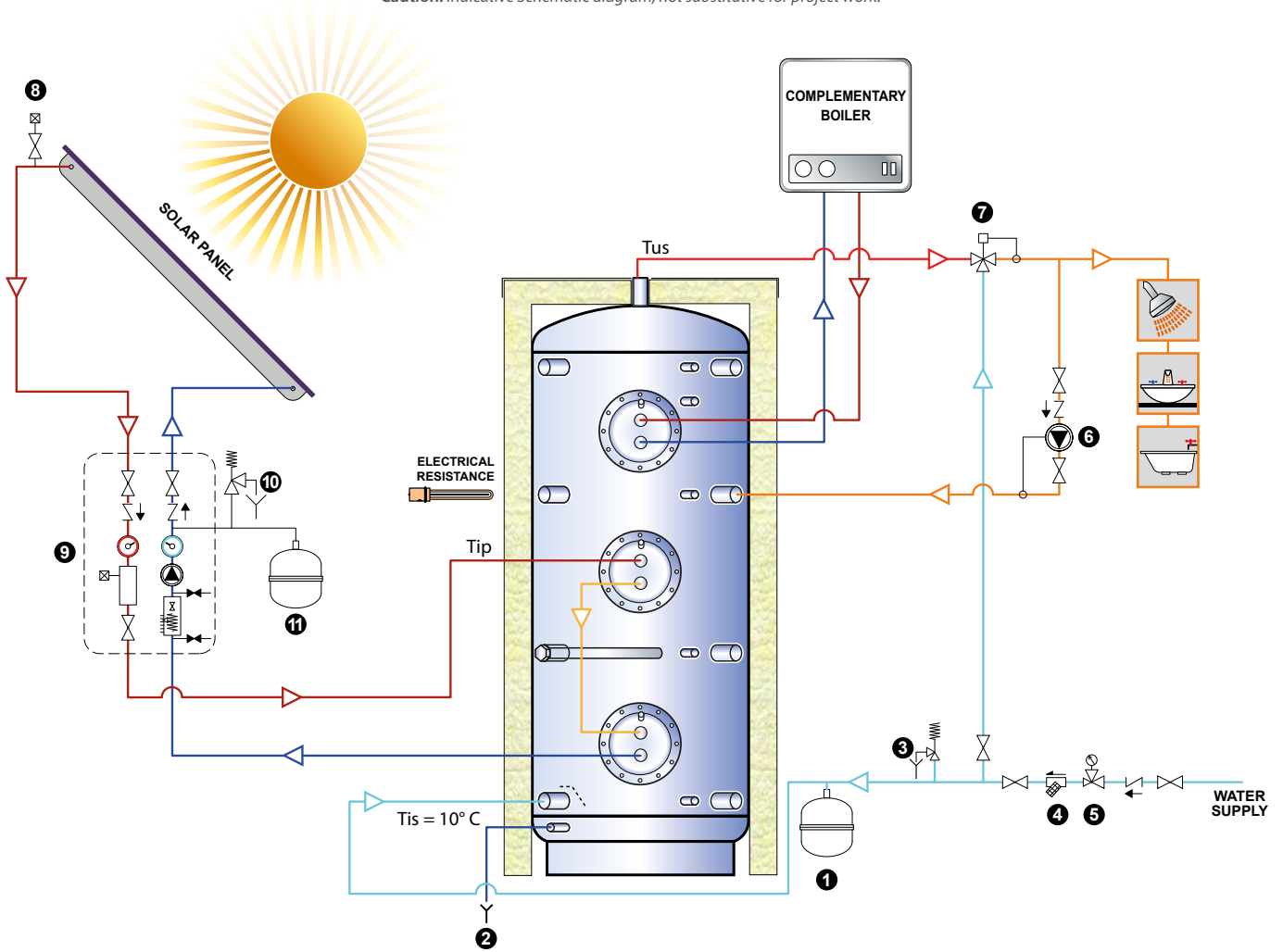
BV3KI - Keramtech boiler with triple inox removable exchanger						
Flexible polyester insul. 100 mm thick + pvc			Rigid insulation + pvc			
Code	ErP	€	Code	Thickness (mm)	ErP	€
BV3KI 02000 F	E	-	BV3KI 02000 R	100	C	-
BV3KI 02500 F	-	-	BV3KI 02500 R	100	-	-
BV3KI 03000 F	-	-	BV3KI 03000 R	100	-	-
BV3KI 04000 F	-	-	BV3KI 04000 R	100	-	-
BV3KI 05000 F	-	-	BV3KI 05000 R	100	-	-
KDS (Exhaust kit)		-				



BV3KR - Keramtech boiler with triple copper removable exchanger						
Flexible polyester insul. 100 mm thick + pvc			Rigid insulation + pvc			
Code	ErP	€	Code	Thickness (mm)	ErP	€
BV3KR 02000 F	E	-	BV3KR 02000 R	100	C	-
BV3KR 02500 F	-	-	BV3KR 02500 R	100	-	-
BV3KR 03000 F	-	-	BV3KR 03000 R	100	-	-
BV3KR 04000 F	-	-	BV3KR 04000 R	100	-	-
BV3KR 05000 F	-	-	BV3KR 05000 R	100	-	-
KDS (Exhaust kit)		-				

Removable exchanger boilers

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

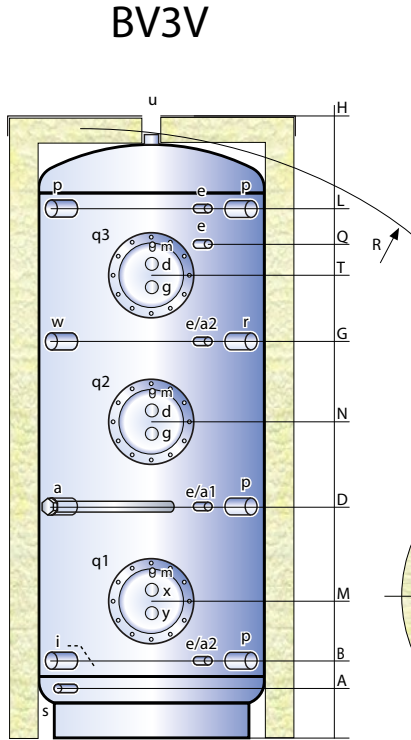


LEGEND

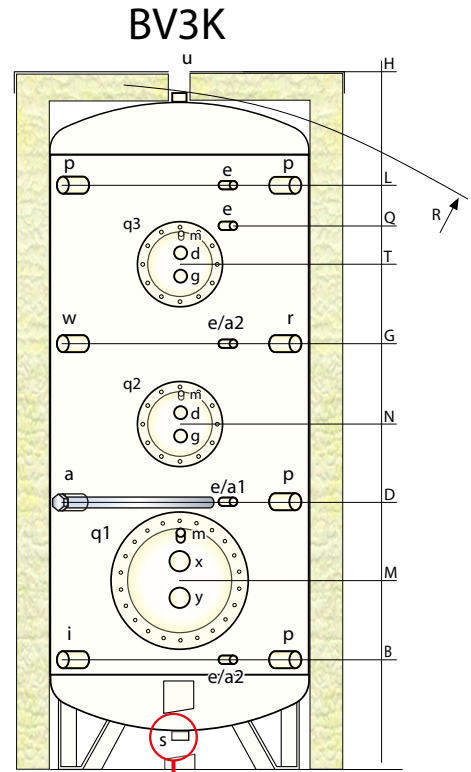
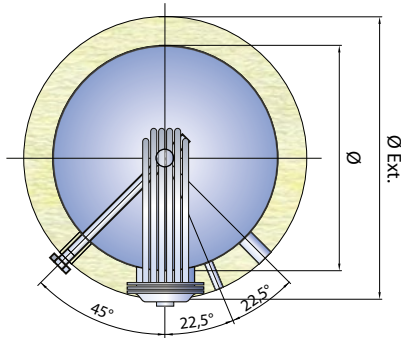
- | | | |
|----------------------------------|--------------------------------|-------------------------------------|
| 1. Sanitary expansion vessel | 5. Pressure reducer | 9. Solar power managing module |
| 2. Sanitary drain | 6. Sanitary recirculation pump | 10. Solar power safety unit (6 bar) |
| 3. Sanitary safety valve (6 bar) | 7. Sanitary mixing valve | 11. Solar expansion vessel |
| 4. Dirt filter | 8. Vent with shut-off | |

Model	lower exchangers								upper exchanger						Amount of water in the first 10 min (Lt/10')
	Sq.m. (Lt)	Lt/h (mca)	Tip (°C)	production of Sanitary Hot Water				Sq.m. (Lt)	Lt/h (mca)	Tip (°C)	production of Sanitary Hot Water				
				Tus=45°C		Tus=60°C					Tus=45°C		Tus=60°C		
Power (kW)	Flow (Lt/h)	Power (kW)	Flow (Lt/h)	Power (kW)	Flow (Lt/h)	Power (kW)	Flow (Lt/h)	Power (kW)	Flow (Lt/h)	Power (kW)	Flow (Lt/h)				
BV3V_01500_	3+3 (26,0)	10000 (1,4)	80	139,7	3432	112,2	1930	1,5 (7,7)	4000 (1,2)	80	36,3	893	28,9	497	2094
			70	110,8	2724	79,5	1368				28,8	708	20,4	352	
BV3_02000_	4+4 (34,4)	12000 (1,3)	80	184,3	4528	148,4	2553	2 (9,5)	5000 (1,0)	80	48,0	1179	38,6	663	2773
			70	146,3	3595	104,5	1798				38,4	944	27,1	466	
BV3K 02500_	5+4 (38,0)	15000 (1,3)	80	209,5	5147	168,3	2895	2 (9,5)	5000 (1,0)	80	48,0	1179	38,6	663	3440
			70	166,3	4085	119,3	2052				38,4	944	27,1	466	
BV3K 03000_	5+5 (41,6)	18000 (1,7)	80	235,1	5778	188,5	3242	3 (13,0)	6000 (1,4)	80	71,3	1751	57,0	980	4115
			70	186,6	4585	132,5	2280				56,5	1389	40,0	689	
BV3K 04000_	8+8 (62,8)	20000 (1,7)	80	360,8	8866	289,8	4984	4 (17,2)	7000 (1,3)	80	94,1	2311	74,8	1287	5463
			70	286,6	7043	206,0	3543				74,6	1834	53,0	912	
BV3K 05000_	10+10 (68,6)	25000 (1,7)	80	451,0	11082	362,2	6231	5 (20,8)	8000 (1,3)	80	116,4	2860	92,8	1596	6786
			70	358,3	8803	257,5	4429				92,4	2270	65,8	1132	

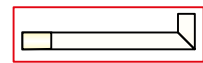
For the purposes of the Directive (ErP) 2009/125/EC Regulation N° 812/2013 and N° 814/2013 the results of the energy measurements are given on page 218



- a magnesium anode
- a1 - a2 provision for the electronic anode
- d boiler flow
- e thermometer – probe
- g boiler return
- m exchanger vent
- i sanitary cold water inlet
- p service connection
- q1 - q2 - q3 exchanger flange
- r recirculation
- s discharge
- u sanitary hot water output
- x solar flow
- y solar return
- w electrical resistance provision



Removable exchanger boilers



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

Model	Dimensions (mm)				Exchanger (Sq.m.)			Electronic anode (optional)	Weight (Kg)
	Ø	H	Ø Ext **	R*	Lower	Middle	Upper		
BV3V_01500_	1000	2115	1200	2145	3,00	3,00	1,50	a2 (EPS 375/125)	392
BV3K_02000_	1100	2435	1300	2465	4,00	4,00	2,00	a2 (EPS 375/125)	394
BV3K_02500_	1200	2595	1400	2640	5,00	4,00	2,00	a2 (EPS 700/200)	451
BV3K_03000_	1250	2795	1450	2835	5,00	5,00	3,00	a2 (EPS 700/200)	494
BV3K_04000_	1400	2925	1600	2995	8,00	8,00	4,00	a2 (EPS 700/200)	705
BV3K_05000_	1600	2955	1800	3090	10,00	10,00	5,00	a2 (EPS 700/200)	819

* 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	N	Q	S	T	a	p	r	d	g	x	y	e	u	m	s	w	q1	q2	q3	
BV3V_01500_	235	340	765	1400	1725	520	1080	1250	915	1560	1"1/4	2"	1/2"	2"	3/8"	1"	1"1/2	300/380	300/380	300/380						
BV3K_02000_	-	475	1010	1515	1975	680	1260	1645	1140	1830	1"1/4	2"	1/2"	2"	3/8"	1"1/4	1"1/2	400/480	350/430	300/380						
BV3K_02500_	-	505	1040	1600	2105	715	1290	1750	1190	1875	1"1/4	2"	1/2"	2"	3/8"	1"1/4	1"1/2	400/480	350/430	300/380						
BV3K_03000_	-	515	1100	1730	2300	700	1415	1880	1250	2045	1"1/4	2"	1/2"	3"	3/8"	1"1/4	1"1/2	400/480	350/430	300/380						
BV3K_04000_	-	595	1190	1815	2380	780	1505	1965	1340	2115	1"1/4	2"	1/2"	3"	3/8"	1"1/4	1"1/2	400/480	350/430	350/430						
BV3K_05000_	-	600	1185	1815	2385	785	1505	1965	1335	2115	1"1/4	2"	1/2"	3"	3/8"	1"1/4	1"1/2	400/480	350/430	350/430						