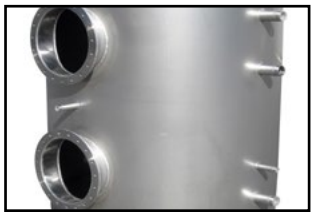
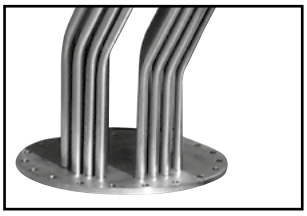
BV2X - Inox AISI 316l boiler with double removable exchanger

Stainless steel AISI 316L boiler for the production and storage of Sanitary Hot Water. The boiler is equipped with two removable heat exchangers in stainless steel AISI 316L tube bundle. The lower exchanger is curved downwards to prevent the proliferation of bacteria in the coldest zone of the boiler.





TECHNICAL CHARACTERISTICS

Sanitary	Material:	Stainless steel AISI 316L (1.4404)
	Internal protective processing:	Pickling and passivation
	External protective processing:	Pickling and passivation
	Operation (P max. / T max.):	6 bar / 95°C
	Cathodic protection:	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 on removable plate
	Operation (P max. / T max.):	12 bar / 95°C
General characteristics	Capacity:	200 - 5000 Lt
	Warranty:	5 years (*sanitary storage*), 2 years (*removable exchanger*)
	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)

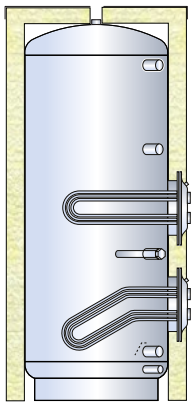
Electronic anode with impressed current

Electronic control unit

Electrical resistance 1"1/2 connection

Thermostat

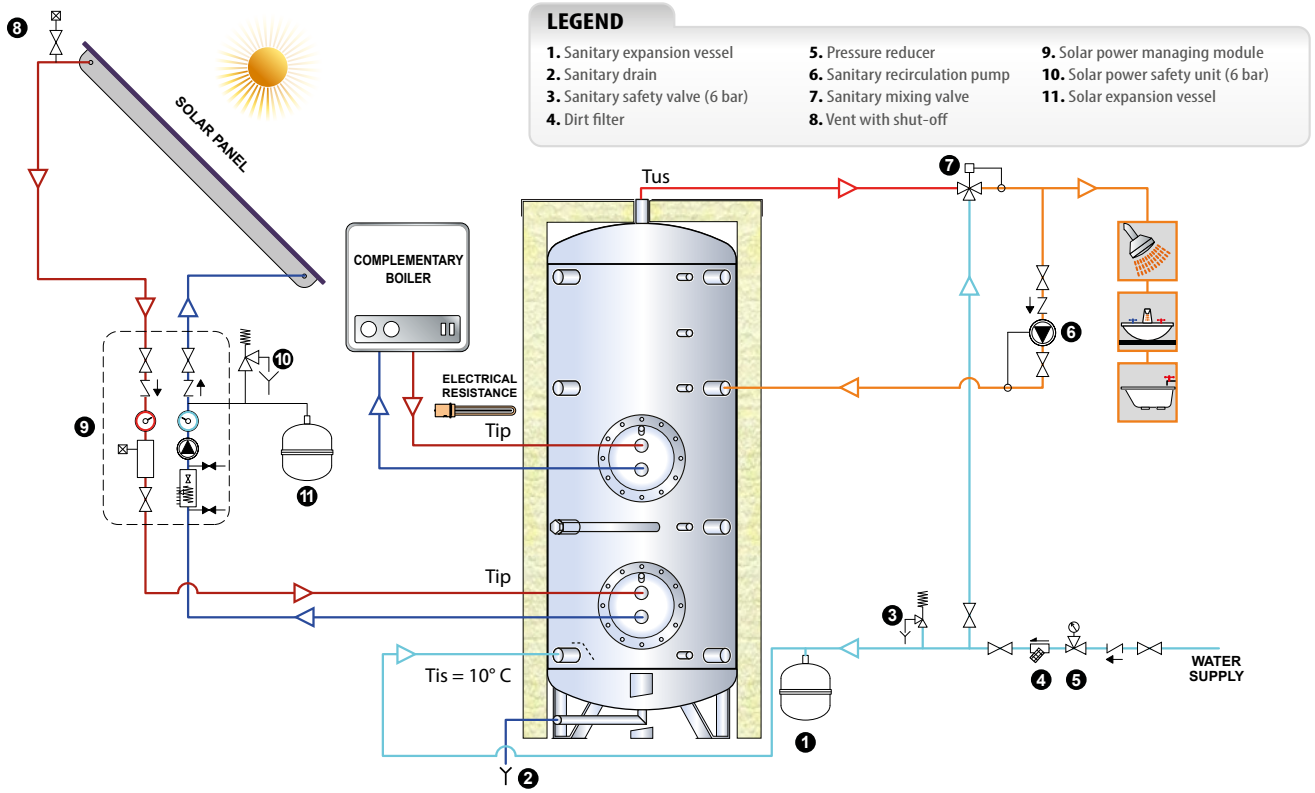
Thermometer



BV2X - Inox AISI 316L boiler with double removable exchanger						
Flexible polyester insul. 100 mm thick + pvc			Rigid insulation + pvc			
Code	ErP	€	Code	Thickness (mm)	ErP	€
-	-	-	BV2X 00200 R	50	C	-
-	-	-	BV2X 00300 R	50	C	-
-	-	-	BV2X 00500 R	50	C	-
BV2X 00800 F	D	-	BV2X 00800 R	100	C	-
BV2X 01000 F	D	-	BV2X 01000 R	100	C	-
BV2X 01500 F	D	-	BV2X 01500 R	100	C	-
BV2X 02000 F	E	-	BV2X 02000 R	100	C	-
BV2X 02500 F	-	-	BV2X 02500 R	100	-	-
BV2X 03000 F	-	-	BV2X 03000 R	100	-	-
BV2X 04000 F	-	-	BV2X 04000 R	100	-	-
BV2X 05000 F	-	-	BV2X 05000 R	100	-	-

Horizontal version +10%

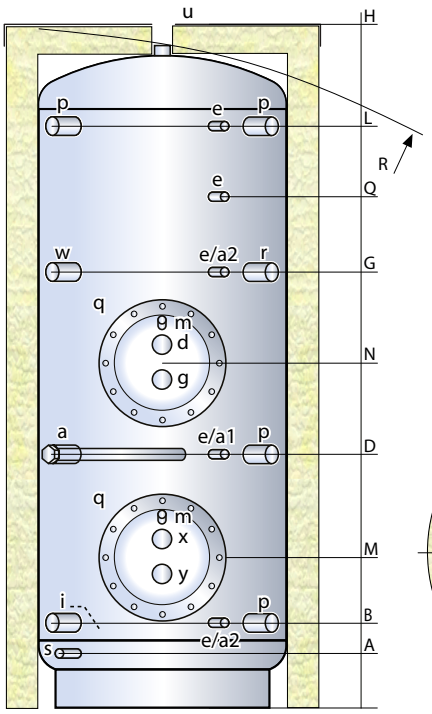
Caution: *Indicative Schematic diagram, not substitutive for project work.*



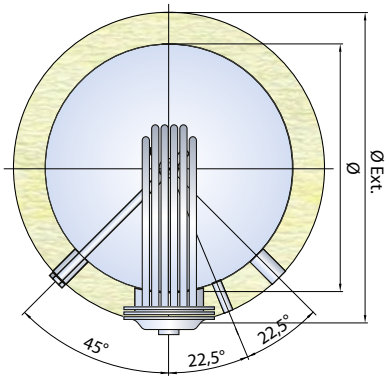
Model	lower exchanger							upper exchanger							Amount of water in the first 10 min (Lt/10 ')
	Sq.m. (Lt)	Lt/h (mca)	Tip (°C)	production of Sanitary Hot Water Tus=45°C Power (kW)	Tus=45°C Flow (Lt/h)	Tus=60°C Power (kW)	Tus=60°C Flow (Lt/h)	Sq.m. (Lt)	Lt/h (mca)	Tip (°C)	production of Sanitary Hot Water Tus=45°C Power (kW)	Tus=45°C Flow (Lt/h)	Tus=60°C Power (kW)	Tus=60°C Flow (Lt/h)	
BV2X 00200R	0,5 (2,9)	2000 (0,8)	80	12,3	303	9,9	170	0,5 (2,9)	2000 (3,55)	80	12,3	303	9,9	170	307
			70	9,8	240	6,9	119			70	9,8	240	6,9	119	299
BV2X 00300R	0,75 (3,8)	2000 (0,8)	80	18,2	446	14,5	249	0,75 (3,8)	2000 (0,8)	80	18,2	446	14,5	249	452
			70	14,4	354	10,2	176			70	14,4	354	10,2	176	443
BV2X 00500R	1 (4,7)	3000 (0,7)	80	24,5	601	19,4	334	1 (4,7)	3000 (0,7)	80	24,5	601	19,4	334	735
			70	19,4	476	13,6	234			70	19,4	476	13,6	234	723
BV2X 00800_	1,5 (7,7)	4000 (1,2)	80	36,3	893	28,9	497	1,5 (7,7)	4000 (1,2)	80	36,3	893	28,9	497	1163
			70	28,8	708	20,4	352			70	28,8	708	20,4	352	1147
BV2X 01000_	2 (9,5)	5000 (10)	80	48,0	1179	38,6	663	2 (9,5)	5000 (1,0)	80	48,0	1179	38,6	663	1449
			70	38,4	944	27,1	466			70	38,4	944	27,1	466	1431
BV2X 01500_	3 (13)	6000 (1,4)	80	71,3	1751	57,0	980	3 (13)	6000 (1,4)	80	71,3	1751	57,0	980	2150
			70	56,5	1389	40,0	689			70	56,5	1389	40,0	689	2126
BV2X 02000_	4 (17,2)	7000 (1,3)	80	94,1	2311	74,8	1287	4 (17,2)	7000 (1,3)	80	94,1	2311	74,8	1287	2830
			70	74,6	1834	53,0	912			70	74,6	1834	53,0	912	2806
BV2X 02500_	5 (20,8)	8000 (1,3)	80	116,4	2860	92,8	1596	4 (20,8)	7000 (1,3)	80	94,1	2311	74,8	1287	3485
			70	92,4	2270	65,8	1132			70	74,6	1834	53,0	912	3466
BV2X 03000_	5 (20,8)	10000 (1,7)	80	118,8	2918	95,0	1633	5 (20,8)	10000 (1,7)	80	118,8	2918	95,0	1633	4144
			70	94,2	2315	66,7	1148			70	94,2	2315	66,7	1148	4129
BV2X 04000_	8 (31,4)	12000 (1,7)	80	184,3	4528	148,4	2553	8 (31,4)	12000 (1,7)	80	184,3	4528	148,4	2553	5496
			70	146,3	3595	104,5	1798			70	146,3	3595	104,5	1798	5482
BV2X 05000_	10 (34,3)	15000 (1,7)	80	230,4	5660	185,5	3191	10 (34,3)	15000 (1,7)	80	230,4	5660	185,5	3191	6786
			70	182,9	4494	130,7	2247			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

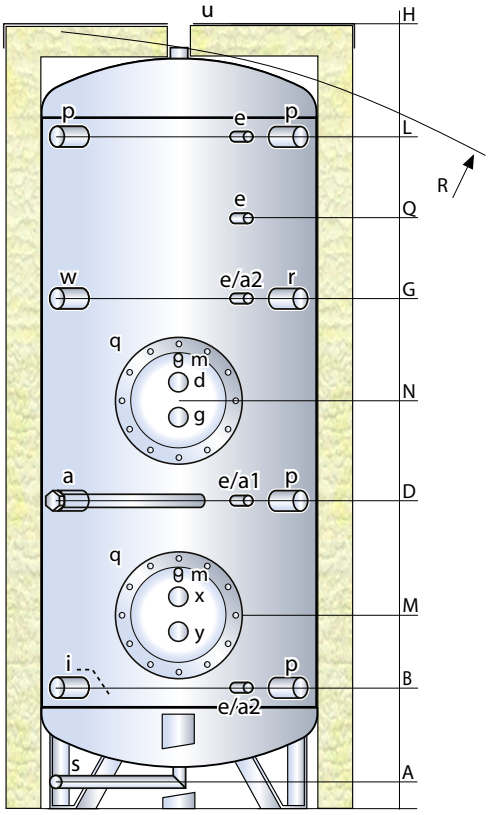
200-1500 Lt



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



2000-5000 Lt



Model	Dimensions (mm)				Exchanger (Sq.m.)		Electronic anode (optional)	Weight
	Ø	H	Ø Ext **	R*	Lower	Upper		(Kg)
BV2X 00200R	450	1305	550	1430	0,50	0,50	a1 (EPS 375/125)	78
BV2X 00300R	500	1595	600	1720	0,75	0,75	a1 (EPS 375/125)	91
BV2X 00500R	650	1645	750	1820	1,00	1,00	a1 (EPS 375/125)	110
BV2X 00800_	790	1750	990	1745	1,50	1,50	a1 (EPS 375/125)	175
BV2X 01000_	790	2110	990	2095	2,00	2,00	a1 (EPS 375/125)	197
BV2X 01500_	1000	2115	1200	2145	3,00	3,00	a2 (EPS 375/125)	272
BV2X 02000_	1100	2435	1300	2465	4,00	4,00	a2 (EPS 375/125)	348
BV2X 02500_	1200	2595	1400	2640	5,00	4,00	a2 (EPS 700/200)	404
BV2X 03000_	1250	2795	1450	2835	5,00	5,00	a2 (EPS 700/200)	442
BV2X 04000_	1400	2925	1600	2995	8,00	8,00	a2 (EPS 700/200)	648
BV2X 05000_	1600	2955	1800	3090	10,00	10,00	a2 (EPS 700/200)	748

* 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	a p r	d g x y	e	iu	m	s	w	q
BV2X 00200R	110	190	515	890	1075	350	785	975	1"1/4	1"	1/2"	1"1/4	3/8"	1"	1"1/2	220/290
BV2X 00300R	110	215	595	1080	1350	375	870	1215	1"1/4	1"	1/2"	1"1/4	3/8"	1"	1"1/2	220/290
BV2X 00500R	135	240	615	1105	1375	445	890	1240	1"1/4	1"	1/2"	1"1/4	3/8"	1"	1"1/2	220/290
BV2X 00800_	170	275	655	1145	1410	450	970	1280	1"1/4	2"	1/2"	1"1/2	3/8"	1"	1"1/2	300/380
BV2X 01000_	170	275	810	1355	1755	455	1045	1555	1"1/4	2"	1/2"	1"1/2	3/8"	1"	1"1/2	300/380
BV2X 01500_	235	340	765	1400	1725	520	1080	1250	1"1/4	2"	1/2"	2"	3/8"	1"	1"1/2	300/380
BV2X 02000_	100	475	1010	1515	1975	655	1260	1645	1"1/4	2"	1/2"	2"	3/8"	1"	1"1/2	350/430
BV2X 02500_	100	505	1040	1600	2105	690	1290	1750	1"1/4	2"	1/2"	2"	3/8"	1"	1"1/2	350/430
BV2X 03000_	90	515	1100	1730	2300	675	1415	1880	1"1/4	2"	1/2"	3"	3/8"	1"	1"1/2	350/430
BV2X 04000_	120	595	1190	1815	2380	755	1505	1965	1"1/4	2"	1/2"	3"	3/8"	1"	1"1/2	350/430
BV2X 05000_	100	600	1185	1815	2385	825	1505	1965	1"1/4	2"	1/2"	3"	3/8"	1"	1"1/2	350/430