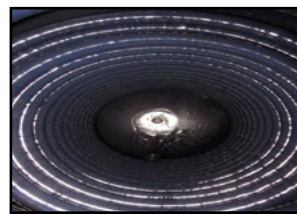


WP1V - Enamelled boiler for heat pumps

WP2V - Enamelled boiler for heat and solar pumps



Carbon steel enamelled boiler for the production and storage of domestic hot water provided by one or two Internal fixed coil heat exchangers with high heat exchange surface; it can be powered by the heat pump and solar plant.



TECHNICAL CHARACTERISTICS

Sanitary	Material:	S 235 Jr enamelled
	Internal protective processing:	Inorganic alimentary enamelling (DIN 4753.3)
	External protective processing:	Painting with anti rust and industrial glaze
	Operation (P max. / T max.):	8 bar / 95°C
	Cathodic protection:	Magnesium anode
Upper exchanger (heat pump)	Material:	S 235 Jr enamelled
	Internal protective processing:	Rough
	External protective processing:	Inorganic alimentary enamelling (DIN 4753.3)
Lower exchanger (solar)	Typology:	Fixed coil with a double parallel spiral
	Operation (P max. / T max.):	12 bar / 95°C
General characteristics	Capacity:	300 - 1500 Lt
	Warranty:	5 years
	Insulation:	- Rigid polyurethane + pvc: <i>Fire resistance class B3 (DIN 4102)</i> - Flexible Polyester + pvc: <i>Fire resistance class B2 (DIN4102)</i>
	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



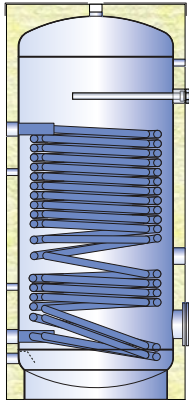
Electrical resistance 1"1/2 connection



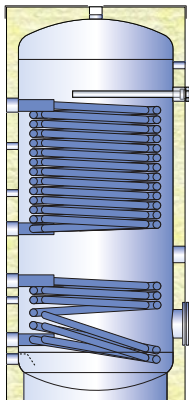
Thermostat



Thermometer

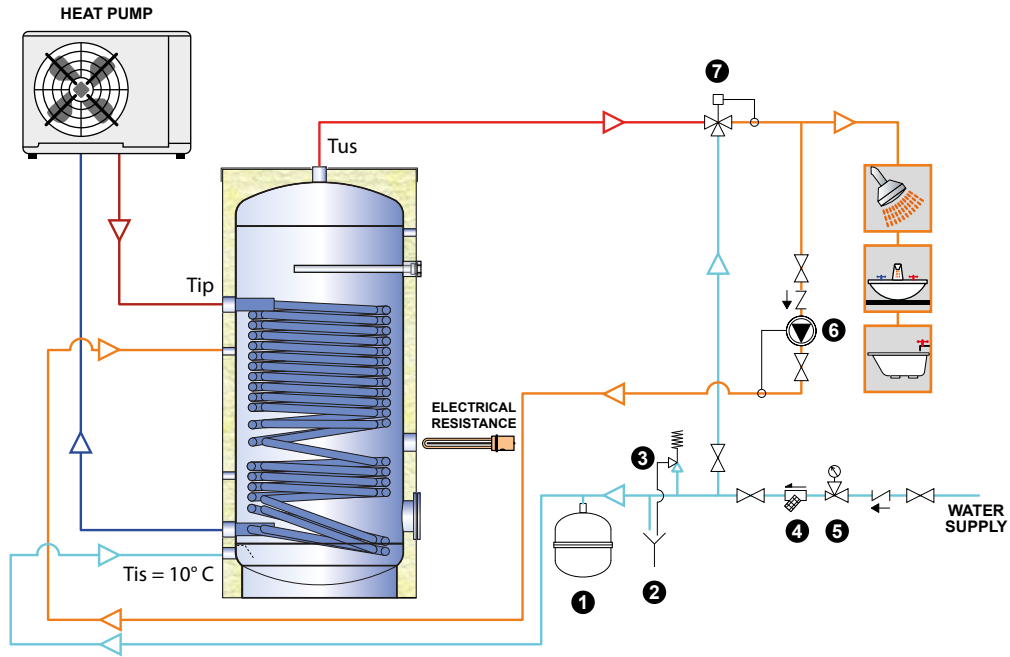


WP1V - Enamelled boiler for heat pumps						
Flexible polyester insul. 100 mm thick + pvc			Rigid Polyurethane insulation + pvc			
Code	ErP	€	Code	Thickness (mm)	ErP	€
-	-	-	WP1V 00300 R	50	B	-
-	-	-	WP1V 00400 R	50	B	-
-	-	-	WP1V 00500 R	50	B	-
-	-	-	WP1V 00600 R	50	C	-
WP1V 00800 F	D	-	WP1V 00800 R	100	C	-
WP1V 01000 F	D	-	WP1V 01000 R	100	C	-
WP1V 01500 F	D	-	WP1V 01500 R	100	C	-



WP2V - Enamelled boiler for heat and solar pumps						
Flexible polyester insul. 100 mm thick + pvc			Rigid Polyurethane insulation + pvc			
Code	ErP	€	Code	Thickness (mm)	ErP	€
-	-	-	WP2V 00300 R	50	B	-
-	-	-	WP2V 00400 R	50	B	-
-	-	-	WP2V 00500 R	50	B	-
-	-	-	WP2V 00600 R	50	C	-
WP2V 00800 F	D	-	WP2V 00800 R	100	C	-
WP2V 01000 F	D	-	WP2V 01000 R	100	C	-
WP2V 01500 F	D	-	WP2V 01500 R	100	C	-

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



LEGEND

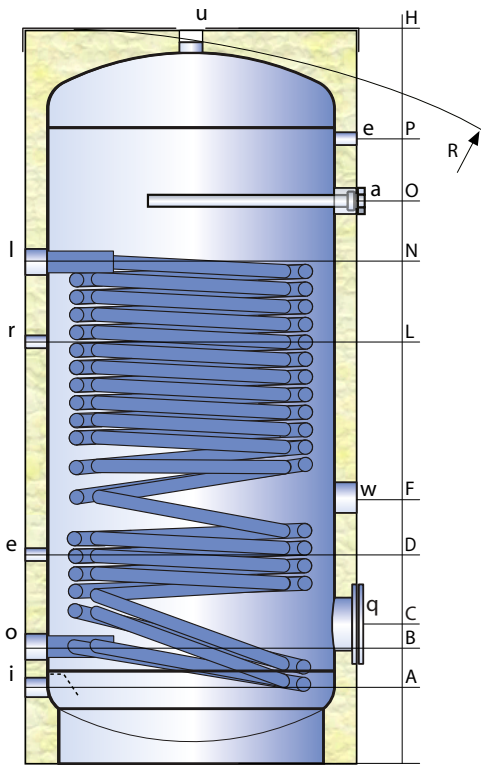
- 1. Expansion vessel
- 2. Sanitary drain
- 3. Sanitary safety valve (6 bar)
- 4. Dirt filter
- 5. Pressure reducer
- 6. Sanitary circulation pump
- 7. Sanitary mixing valve

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 Tus=45°C		NL*	
				Power (kW)	Flow (Lt/h)		
WP1V 00300R	3,5 (24,9)	2000 (0,2)	65	56,2	1380	2,3	568
			55	39,3	966		520
WP1V 00400R	4,5 (32,0)	3000 (0,4)	65	75,2	1848	3,5	728
			55	52,4	1287		672
WP1V 00500R	5,7 (40,5)	3000 (0,5)	65	88,9	2185	5,8	893
			55	62,4	1533		829
WP1V 00600R	5,7 (40,5)	3000 (0,6)	65	88,9	2185	6,1	1018
			55	62,4	1533		957
WP1V 00800_	6 (42,6)	3000 (0,7)	65	92,3	2267	6,6	1282
			55	64,8	1593		1224
WP1V 01000_	6 (42,6)	3000 (0,7)	65	92,3	2267	7,8	1535
			55	64,8	1593		1482
WP1V 01500_	7,5 (53,3)	4000 (1,2)	65	117,0	2876	11,0	2223
			55	82,1	2017		2167

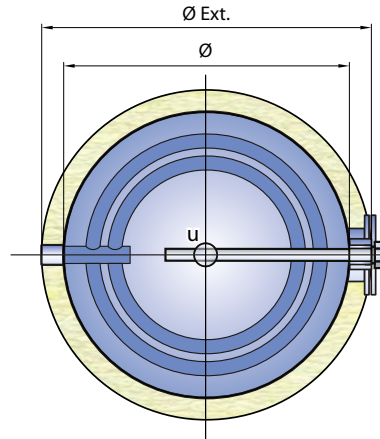
* Efficiency coefficient NL (DIN 4708)

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

WP1V



- a magnesium anode
- e thermometer - probe
- i sanitary cold water inlet
- l flow heat pump
- o heat pump return
- q sanitary inspection flange
- r recirculation
- u sanitary hot water output
- w electrical resistance provision

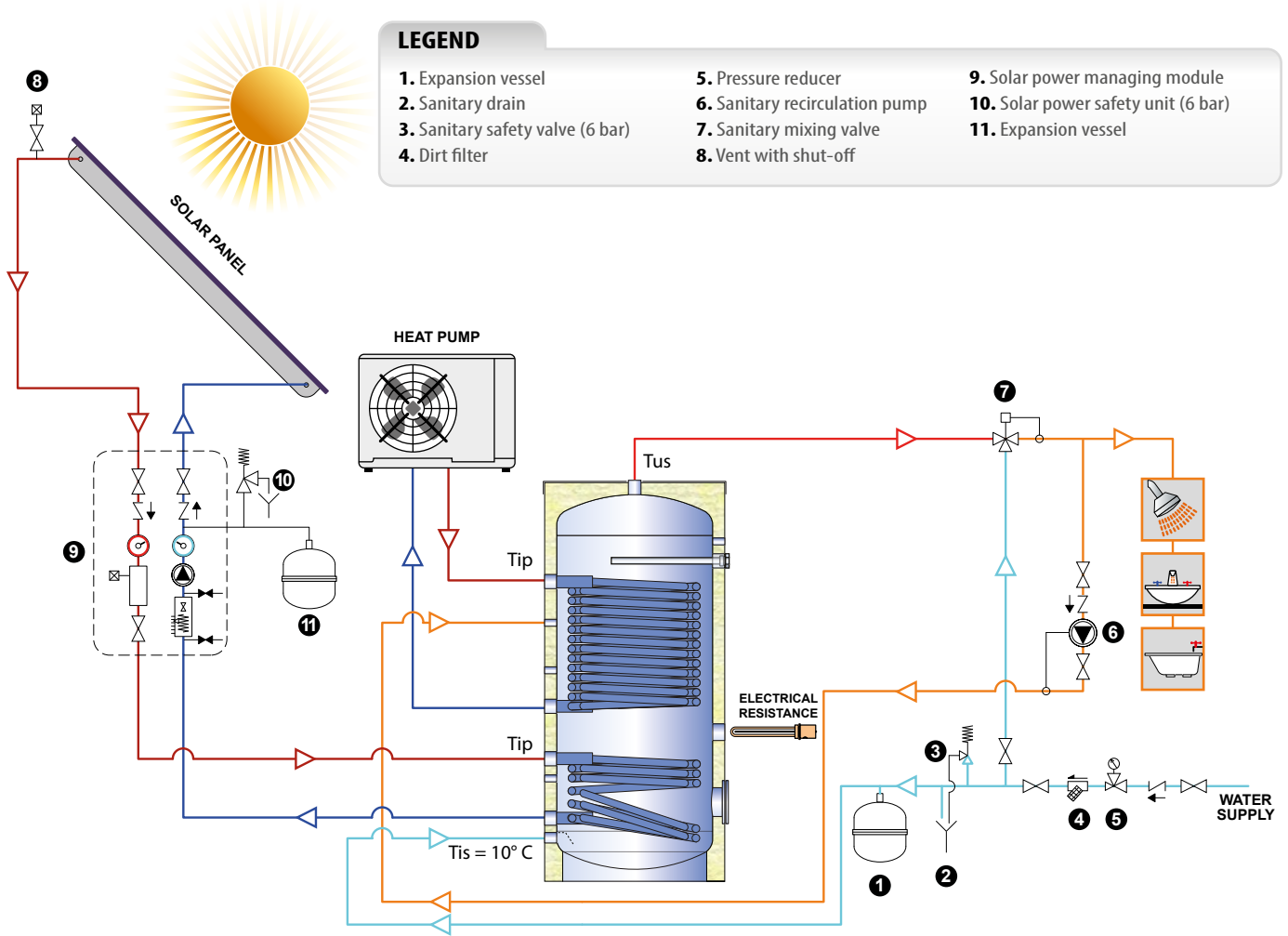


Model	Dimensions (mm)				Exchanger (Sq.m.)	Weight (Kg)
	Ø	H	Ø Ext **	R *		
WP1V 00300R	500	1610	600	1730	3,50	110
WP1V 00400R	650	1410	750	1610	4,50	133
WP1V 00500R	650	1660	750	1835	5,70	159
WP1V 00600R	650	1910	750	2065	5,70	167
WP1V 00800_	790	1750	990	1745	6,00	215
WP1V 01000_	790	2110	990	2095	6,00	251
WP1V 01500_	1000	2115	1200	2145	7,50	383

* For capacities from 300 to 600 Lt the diagonal of rollover is referred to the insulated tank
 ** All insulations are removable except for models from 300 to 600 LT

Model	Dimensions (mm)									Connections (gas)						
	A	B	C	D	F	L	N	O	P	a	o	e	r	i	u	w
WP1V 00300R	120	210	300	320	495	925	1110	1160	1365	1"1/4	1/2"	1/2"	1"	1"1/4	1"1/2	120/180
WP1V 00400R	145	240	310	340	525	870	1005	1030	1140	1"1/4	1/2"	1/2"	1"	1"1/4	1"1/2	120/180
WP1V 00500R	145	240	310	350	570	1020	1250	1280	1390	1"1/4	1/2"	1/2"	1"	1"1/4	1"1/2	120/180
WP1V 00600R	145	240	310	390	605	1070	1250	1510	1640	1"1/4	1/2"	1/2"	1"	1"1/4	1"1/2	120/180
WP1V 00800_	150	275	345	405	620	1000	1170	1310	1425	1"1/4	1/2"	1"	1"1/2	1"1/2	1"1/2	120/180
WP1V 01000_	150	275	345	475	750	1120	1275	1615	1770	1"1/4	1/2"	1"	1"1/2	1"1/2	1"1/2	120/180
WP1V 01500_	230	345	475	535	805	1165	1325	1600	1740	1"1/4	1/2"	1"	2"	2"	1"1/2	220/290

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



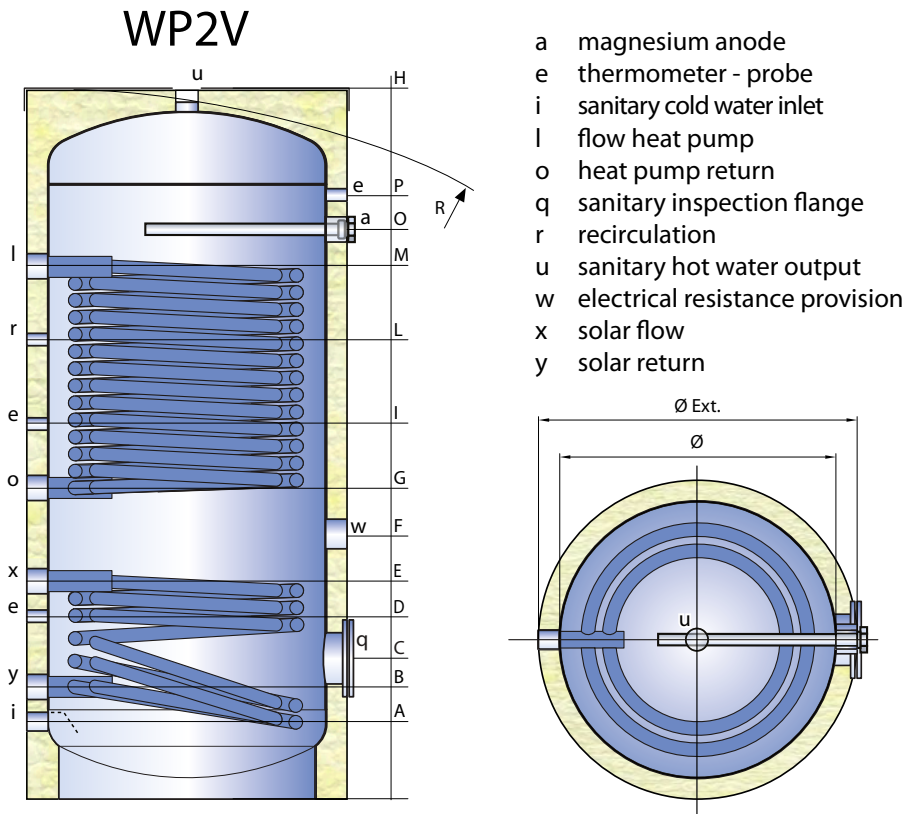
LEGEND

- 1. 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
- 8. Vent with shut-off
- 9. Solar power managing module
- 10. Solar power safety unit (6 bar)
- 11. Expansion vessel

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		Sq.m. (Lt)	Lt/h (mca)	Tip (°C)	production of Sanitary Hot Water Tus=45°C			NL*
				Power (kW)	Flow (Lt/h)				Power (kW)	Flow (Lt/h)		
WP2V 00300R	1 (7,1)	2000 (0,1)	80	29,1	715	2,4 (17,0)	2000 (0,1)	65	42,2	1036	1,6	528
			70	23,1	567			55	29,2	719		491
WP2V 00400R	1,2 (8,5)	3000 (0,1)	80	35,6	875	3 (21,3)	3000 (0,3)	65	54,6	1341	2,4	677
			70	28,3	694			55	37,8	928		636
WP2V 00500R	1,5 (10,6)	3000 (0,2)	80	43,6	1072	4,2 (29,8)	3000 (0,4)	65	71,1	1747	3,0	850
			70	34,6	851			55	49,5	1216		798
WP2V 00600R	2 (14,2)	3000 (0,3)	80	55,8	1370	5 (35,5)	3000 (0,5)	65	81,4	1999	4,9	1001
			70	44,8	1100			55	56,8	1396		945
WP2V 00800_	2 (14,2)	3000 (0,3)	80	55,8	1370	5,2 (36,9)	3000 (0,6)	65	83,5	2051	5,1	1263
			70	44,8	1100			55	58,4	1435		1210
WP2V 01000_	3,3 (23,4)	3000 (0,5)	80	84,8	2082	6 (42,6)	3000 (0,7)	65	92,3	2267	6,5	1535
			70	67,5	1659			55	64,8	1593		1482
WP2V 01500_	3,6 (25,5)	4000 (0,6)	80	95,9	2356	7,5 (53,2)	4000 (1,2)	65	117,0	2876	9,5	2223
			70	77,2	1897			55	82,1	2017		2167

* Efficiency coefficient NL (DIN 4708)

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
- e thermometer - probe
- i sanitary cold water inlet
- l flow heat pump
- o heat pump return
- q sanitary inspection flange
- r recirculation
- u sanitary hot water output
- w electrical resistance provision
- x solar flow
- y solar return

Model	Dimensions (mm)				Exchanger (Sq.m.)		Weight (Kg)
	Ø	H	Ø Ext **	R *	Lower	Upper	
WP2V 00300R	500	1610	600	1730	1,00	2,40	108
WP2V 00400R	650	1410	750	1610	1,20	3,00	128
WP2V 00500R	650	1660	750	1835	1,50	4,20	159
WP2V 00600R	650	1910	750	2065	2,00	5,00	188
WP2V 00800_	790	1750	990	1745	2,00	5,20	234
WP2V 01000_	790	2110	990	2095	3,30	6,00	285
WP2V 01500_	1000	2115	1200	2145	3,60	7,50	417

* For capacities from 300 to 600 Lt the diagonal of rollover is referred to the insulated tank
 ** All insulations are removable except for models from 300 to 600 LT

Model	Dimensions (mm)												Connections (gas)						
	A	B	C	D	E	F	G	I	L	M	O	P	a	oxy	e	r	i	u	w
WP2V 00300R	120	210	300	320	430	495	560	745	925	1110	1160	1365	1"1/4	1/2"	1/2"	1"	1"1/4	1"1/2	120/180
WP2V 00400R	145	240	310	340	440	525	565	720	870	1005	1030	1140	1"1/4	1/2"	1/2"	1"	1"1/4	1"1/2	120/180
WP2V 00500R	145	240	310	350	460	570	610	820	1020	1250	1280	1390	1"1/4	1/2"	1/2"	1"	1"1/4	1"1/2	120/180
WP2V 00600R	145	240	310	390	540	605	670	870	1070	1470	1510	1640	1"1/4	1/2"	1/2"	1"	1"1/4	1"1/2	120/180
WP2V 00800_	150	275	345	405	535	620	665	835	1000	1270	1310	1425	1"1/4	1/2"	1"	1"1/2	1"1/2	1"1/2	120/180
WP2V 01000_	150	275	345	475	675	750	825	975	1120	1575	1615	1770	1"1/4	1/2"	1"	1"1/2	1"1/2	1"1/2	120/180
WP2V 01500_	230	345	475	535	730	805	880	1025	1165	1560	1600	1740	1"1/4	1/2"	1"	2"	2"	1"1/2	220/290