allwarm
heating systems

- Double enamel layer
- PVC housing for best aesthetics
- Big inspection flange opening

Description:

1. **Water storage tank:** cold rolled steel with a double internal layer of enamel, baked at 860°C according to DIN 4753.
2. **Heat exchangers.** For the transfer of thermal energy:
   - Internal coil type heavy duty steel (type Tubo) integrated in the lower part of the tank, for the connection to the solar collector.
   - Optional internal coil type heavy duty steel (type Tubo) integrated in the upper part of the tank, for the connection of the secondary heating source.
3. **Thermal insulation.** Minimizes heat losses, maintaining the hot water temperature:
   - Expanded ecologically safe polyurethane for up to 500lt capacity types.
   - Flexible removable insulation of 70mm thickness , for the 800lt and 1000lt capacities.
4. **External housing**: Special PVC for excellent aesthetics.
5. **Cathode protection**: A periodically replaceable magnesium anode for effective internal protection against corrosion and mineral deposits which are caused by electrolytic reactions.
6. **Electrical components:**
   - Heating element rated according to the local regulations of the country of destination
   - Automatically regulated thermostat with bipolar protection and auxiliary fuse

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Forced Circulation Tank - DOUBLE HEAT EXCHANGER (BVFC2)								
MODEL		160lt	200lt	300lt	400lt	500lt	800lt	1000lt
Capacity	Lt	153	187	283	378	443	763	952
Net weight	kg	72	88	121	143	166	248	289
Insulation	mm	50	50	50	50	50	70	70
Heat Exchanger Surface C1	m^2	0,64	0,85	1,27	1,65	2,06	2,45	3,18
Heat Exchanger Surface C2	m^2	0,42	0,62	0,85	0,97	0,96	1,46	1,49
Heat Exchanger Capacity C1	Lt	3,83	5,10	7,66	10,21	12,44	20,11	26,00
Heat Exchanger Capacity C2	Lt	2,55	3,83	5,10	5,87	6,06	11,96	12,17
Heat Exchanger Output (60-80°C) C1	kW	17	26	34	45	52	57	78
Heat Exchanger Output (60-80°C) C2	kW	13	16	26	25	31	39	33
Heat Exchanger Continuous Flow Rate (60-80°C) C1	L/h	418	639	835	1106	1278	1401	1917
Heat Exchanger Continuous Flow Rate (60-80°C) C2	L/h	319	393	639	614	762	958	811
Heat Losses ΔT 45K	kWh/24h	1,4	1,5	1,7	2,2	2,5	3,2	3,5
Energy Efficiency Class		B	B	B	C	C	C	C
Maximum Operational Temperature	°C	95	95	95	95	95	95	95
Rated Pressure	bar	10	10	10	10	10	8	8
Rated Pressure of the Heat Exchanger	bar	6	6	6	6	6	6	6
NL Factor C1		2,8	4,0	8,2	12,5	19	26	35
NL Factor C2		0,5	0,8	2,5	2,3	3,2	10	16

MODEL			160lt	200lt	300lt	400lt	500lt	800lt	1000lt
External Diameter	D ext	mm	600	600	600	700	700	990	990
Internal Diameter	D int	mm	500	500	500	600	600	850	850
Height	HT	mm	1035	1230	1760	1655	1900	1770	2100
Manhole	MH	mm	287	287	287	283	283	459	459
Cold Water Inlet	A	mm	242	242	242	238	238	331	331
Hot Water Outlet	B	mm	787	982	1512	1408	1658	1372	1727
Lower HE Outlet	C	mm	242	242	242	238	238	331	331
Lower HE Inlet	D	mm	507	602	782	778	913	881	1046
Upper HE Outlet	E	mm	607	712	942	938	1073	1025	1262
Upper HE Inlet	F	mm	787	982	1302	1253	1388	1375	1612
Sensor Pocket 1	G	mm	375	422	512	508	576	606	689
Sensor Pocket 2	H	mm	697	847	1122	1096	1231	1200	1437
Heating Element	J	mm	557	657	862	858	993	953	1154
Recirculation	K	mm	605	735	1088	1018	1184	1025	1262
Thermometer	L	mm	787	982	1512	1408	1658	1372	1727

NOTE: Dimensional tolerance ±10mm

Height	HT	160lt-500lt	800lt-1000lt
External Diameter		D ext	
Internal Diameter		D int	
Manhole	MH	Ø180	Ø300
Cold Water Inlet	A	F 1"	F 1 1/2"
Hot Water Outlet	B	F 1"	F 1 1/2"
Lower HE Outlet	C	F 1"	F 1 1/2"
Lower HE Inlet	D	F 1"	F 1 1/2"
Upper HE Outlet	E	F 1"	F 1 1/2"
Upper HE Inlet	F	F 1"	F 1 1/2"
Sensor Pocket 1	G	F 1/2"	F 1/2"
Sensor Pocket 2	H	F 1/2"	F 1/2"
Heating Element	J	F 1 1/2"	F 1 1/2"
Recirculation	K	F 3/4"	F 3/4"
Thermometer	L	F 1/2"	F 1/2"