

COMBINED FLOOR STANDING WATER HEATERS WITH TWO HEAT EXCHANGERS (S2)



Water heaters type: indirect

Installation: floor standing

Capacity: 150, 200, 300 and 500l.

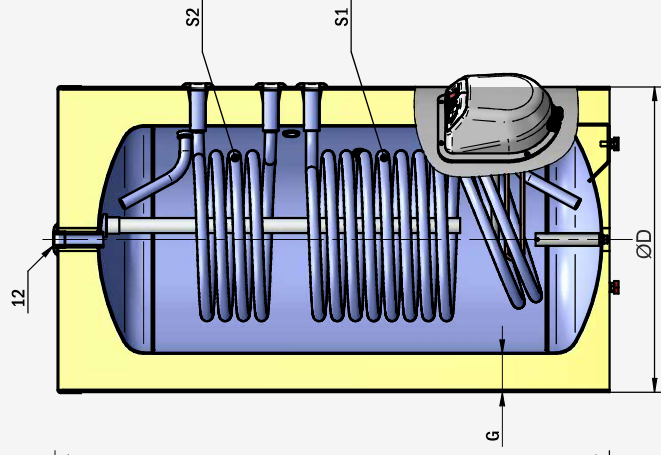
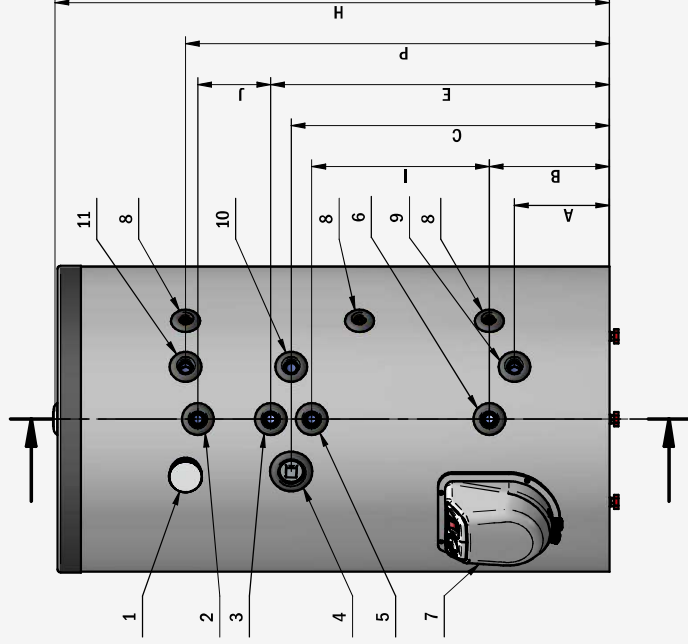
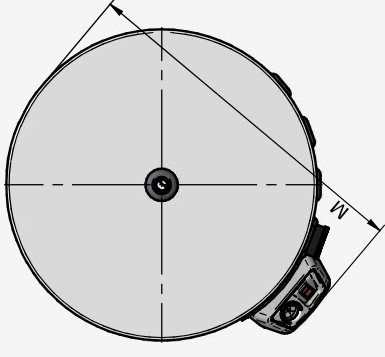
Water tank: enameled

The water heaters of this group have high energy efficiency which can meet the needs of large consumers. They use two green energy sources simultaneously. Through the appropriate combination of operation modes of both heat exchangers, these water heaters provide hot water during the whole year with minimal electricity consumption.



DESCRIPTION

- Minimal heat losses: Thick CFC-free insulation from environmentally friendly high density polyurethane foam formula for models from 150 to 500 liters.
- Lower heat exchanger with large heat exchanging surface designed for connection to a solar collector or a heat pump;
- SHIELD technology - a unique formula for wear-resistant enamel coating with increased zirconium content with lithium and cobalt oxides - for durability and long life of the water tank in enameled models;
- Two magnesium anodes for optimal corrosion protection;
- Five levels of protection;
- Connections convenient for installation and maintenance;
- Mechanical or electronic control;
- Sensor socket for both heat exchangers;
- Socket for mounting of an additional electric heating element;
- External thermostat;
- Combined metal safety valve;
- Circulation socket;
- Casing made of synthetic INOX-coloured wear-resistant material;
- Precision thermometer for all models;
- Optional replacing kit (flange, heating element/s and anode);



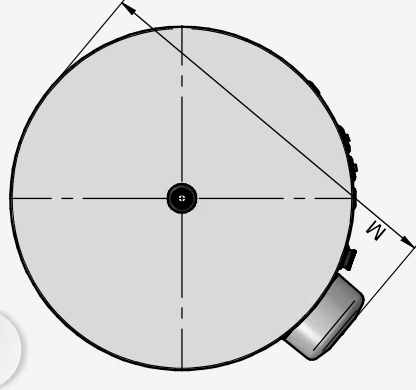


Parameters		FV15060S2	FV20060S2	FV30067S2	FV50080S2
Model	...	150	200	300	500
Volume group	...	B	B	B	B
Energy efficiency class	...	B	B	B	B
Standing loss	W	47	49	52	76
Rated pressure	Mpa	0.8	0.8	0.8	0.8
Volume	L	141	184	258	465
Insulation thickness	mm	75	75	85	80
Gross weight	kg	65	84	99	166
Heat exchanger (main heat)					
Operating pressure	Mpa	1	1	1	1
Maximum temperature of the heating fluid	°C	110	110	110	110
Maximum temperature in the tank heated by a heat exchanger. Appliance without / with back-up immersion electric heater.	°C	95 / 85	95 / 85	95 / 85	95 / 85
Heat exchanger S1					
Surface area	m ²	0.67	0.90	1.12	1.85
Volume	L	3.2	4.3	5.4	12.2
NL	3.6	8	15
Continuous output according DIN 4708	kW	...	25	35	58
Flow rate according DIN 4708	L/min	...	10	14	24
Power according EN 12897	kW	13.7	18.6	19.3	25
Heat-up time according EN 12897	min	21	28.8	39.4	54.9
Pressure loss	mbar	80	120	50	35
Maximum amount of drained water MIX 40 °C according EN 12897 when the power S1 is off	L	158	286	406	699
Heat exchanger S2					
Surface area	m ²	0.3	0.38	0.86	1.15
Volume	L	1.4	1.8	4.2	7.6
NL	1	1.8	2.3
Continuous output according DIN 4708	kW	...	10	25	32
Flow rate according DIN 4708	L/min	...	4.2	10	13
Power according EN 12897	kW	7	8.7	18.3	21.4
Heat-up time according EN 12897	min	19.5	23	18.6	29.6
Pressure loss	mbar	80	15	55	55
Maximum amount of drained water MIX 40 °C according EN 12897 when the power S2 is off	L	75	107	175	327
Electrical part (auxiliary heating)					
Rated voltage	V	0 / 230-	0 / 230-	0 / 230- / 400 0 / 3N-	0 / 230- / 400 0 / 3N-
Rated electrical power	kW	0 / 3	0 / 3	0 / 3 / 6 / 9	0 / 3 / 6 / 9
Time of heating with electric resistance heater up to 70°C [2]	min	--- / 175	--- / 230	--- / 322 / 162 / 108	--- / 570 / 285 / 190
Maximum temperature in the tank of heated with electric resistance heater	°C	75	75	75	75
Connections					
1: Thermometer		yes	yes	yes	yes
2: S2 - Feed		G3/4 M	G3/4 M	G3/4 M	G1 F
3: S2 - Return		G3/4 M	G3/4 M	G3/4 M	G1 F
4: Additional socket		G1 1/2 F	G1 1/2 F	G1 1/2 F	G1 1/2 F
5: S1 - Feed		G3/4 M	G3/4 M	G3/4 M	G1 F
6: S1 - Return		G3/4 M	G3/4 M	G3/4 M	G1 F
7: Flange with a heating element		yes	yes	yes	yes
8: Socket for thermostat		G1/2 F	G1/2 F	G1/2 F	G1/2 F
9: Fresh water inlet - Drain		G3/4 F	G3/4 F	G3/4 F	G1 F
10: Recirculation		G3/4 F	G3/4 F	G3/4 F	G3/4 F
11: Hot water outlet		G3/4 F	G3/4 F	G3/4 F	G1 F
12: Hot water outlet		G3/4 F	G3/4 F	G3/4 F	G1 1/4 F
Dimensions					
A	mm	210	210	210	265
B	mm	260	260	265	320
C	mm	660	855	840	1000
D	mm	600	600	670	800
E	mm	705	900	885	1045
G	mm	75	75	85	80
H	mm	1150	1430	1605	1765
I	mm	355	550	530	630
J	mm	160	230	400	380
M	mm	690	690	760	890
P	mm	890	1155	1315	1425

1. All values in the table are approximate.

2. The heat-up time with the electric resistance heater is for actual capacity.

BIG CAPACITY COMBINED FLOOR STANDING WATER HEATERS UP 750 TO 2000L (S2)



Water heaters type: indirect
Installation: floor standing

Capacity: 750, 1000, 1500, 2000L.

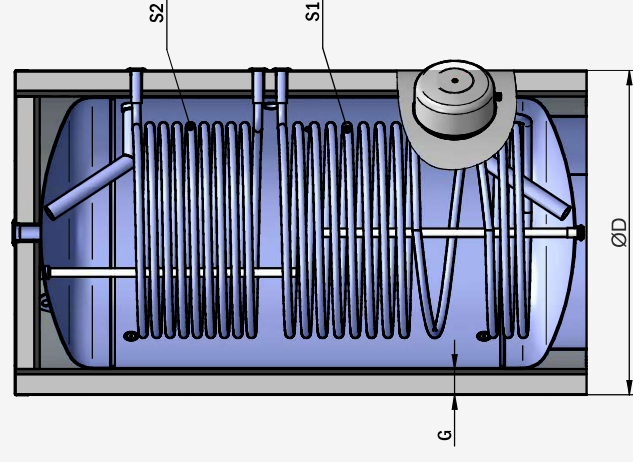
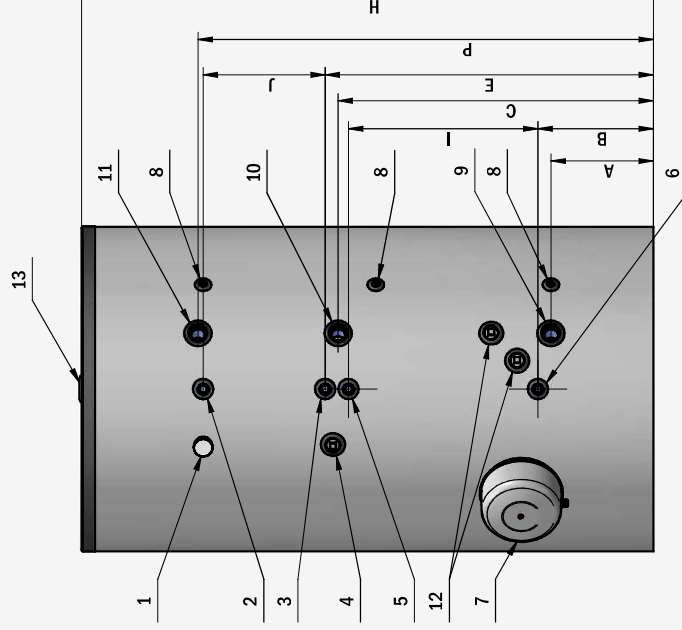
Water tank: enameled

This group of water heaters has very high energy efficiency that can meet the needs of large consumers. The appliances with two heat exchangers use two green energy sources simultaneously. With the appropriate combination of operation models of both heat exchangers, these water heaters supply hot water during the whole year with minimal electricity consumption.



DESCRIPTION

- Minimal heat losses: Thick EPS insulation of expanded polystyrene with high density graphite microparticles for models from 750 to 2000liters
- Lower heat exchanger with large heat exchanging surface designed for connection to a solar collector or a heat pump;
- SHIELD technology - a unique formula for wear-resistant enamel coating with increased zirconium content with lithium and cobalt oxides - for durability and long life of the water tank in enameled models;
- Two magnesium anodes for optimal corrosion protection;
- Five levels of protection;
- Connections convenient for installation and maintenance;
- Sensor socket for both heat exchangers;
- Socket for mounting of an additional electric heating element;
- Circulation socket;
- Mechanical or electronic control;
- A 100mm thick insulation, easy for dismounting;
- Zipped lining of wear-resistant a synthetic fabric in INOX color;
- Thermometer
- External thermostat;
- Optional replacing kit (flange, heating element/s and anode);



 SPECIFICATIONS

Parameters		FV75010FS2	FV10010FS2	FV15013FS2	FV20014FS2
Model	...				
Volume group	...	750	1000	1500	2000
Energy efficiency class	...	-	-	-	-
Standing loss	W	127	137	161	186
Rated pressure	Mpa	0.6	0.6	0.8	0.8
Volume	L	721	920	1455	1978
Insulation thickness	mm	80	80	100	100
Gross weight	kg	243	278	408	515
Heat exchanger (main heat)					
Operating pressure	Mpa	1	1	1	1
Maximum temperature of the heating fluid	°C	110	110	110	110
Maximum temperature in the tank heated by a heat exchanger. Appliance without / with auxiliary electric immersion heating element.	°C	95/85	95/85	95/85	95/85
Heat exchanger S1					
Surface area	m ²	2.03	3.04	3.04	4.25
Volume	L	13.3	20	20	27.9
NL	...	19	30	35	45
Continuous output according DIN 4708	kW	65	94	91	130
Flow rate according DIN 4708	L/min	27	39	38	54
Power according EN 12897	kW	26.2	34	31	41
Heat-up time according EN 12897	min	76.6	77	117	111
Pressure loss	mbar	50	70	70	80
Maximum amount of drained water MIX 40°C according EN12897 when S1's energy source is off	L	1058	1390	1934	2515
Heat exchanger S2					
Surface area	m ²	1.22	2.03	2.03	2.73
Volume	L	8	13.3	13.3	18
NL	...	5	16	18	20
Continuous output according DIN 4708	kW	35	57	56	76
Flow rate according DIN 4708	L/min	14	23	23	31
Power according EN 12897	kW	19.7	28	26	33
Heat-up time according EN 12897	min	49.5	42	50	60
Pressure loss	mbar	20	40	30	50
Maximum amount of drained water MIX 40°C according EN12897 when S2's energy source is off	L	519	650	712	1085
Electrical part (auxiliary heating)					
Rated voltage	V	0/400 3N-	0/400 3N-	0/400 3N-	0/400 3N-
Rated electrical power	kW	0/9/12	0/9/12	0/9/12	0/9/12
Heat-up time with electric heating element (up to 70°C) [2]	min	---/280/210	---/368/277	---/540/405	---/730/550
Maximum temperature in the tank when heated with electric heating element	°C	75	75	75	75
Connections					
1: Thermometer		Yes	Yes	Yes	Yes
2: S2 - Feed		G1 F	G1 F	G1 F	G1 F
3: S2 - Return		G1 F	G1 F	G1 F	G1 F
4: Additional socket		G1 1/2 F	G1 1/2 F	G1 1/2 F	G1 1/2 F
5: S1 - Feed		G1 F	G1 F	G1 F	G1 F
6: S1 - Return		G1 F	G1 F	G1 F	G1 F
7: Flange with a heating element		Yes	Yes	Yes	Yes
8: Socket for thermostat		G1/2 F	G1/2 F	G1/2 F	G1/2 F
9: Fresh water inlet - Drain		G1 1/2 F	G1 1/2 F	G2 F	G2 F
10: Recirculation		G3/4 F	G3/4 F	G2 F	G2 F
11: Hot water outlet		G1 1/2 F	G1 1/2 F	G2 F	G2 F
12: Additional socket		-	-	G1 1/2 F	G1 1/2 F
13: Hot water outlet		G1 1/4 F	G1 1/4 F	G2 F	G2 F
Dimensions					
A	mm	330	330	395	415
B	mm	420	420	445	465
C	mm	950	1110	1215	1255
D	mm	1010	1010	1250	1400
E	mm	990	1150	1265	1285
G	mm	80	80	100	100
H	mm	1655	2000	2210	2255
I	mm	470	630	730	730
J	mm	290	470	470	470
M	mm	1110	1110	1385	1535
P	mm	1280	1620	1755	1775

1. All values in the table are approximate.

2. The heat-up time with the electric resistance heater is for actual capacity.