



Water heaters type: indirect

Installation: floor standing

Capacity: 200, 300 and 500L

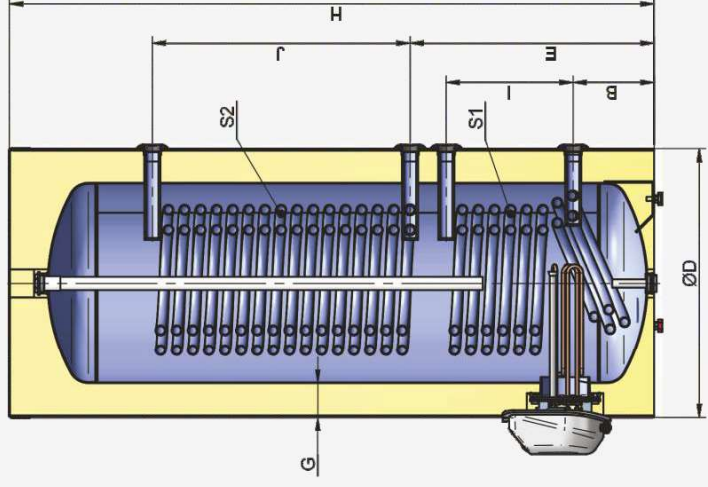
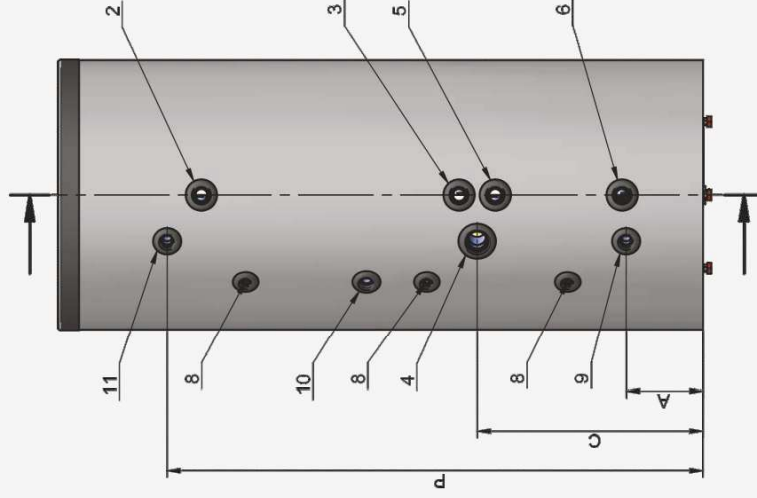
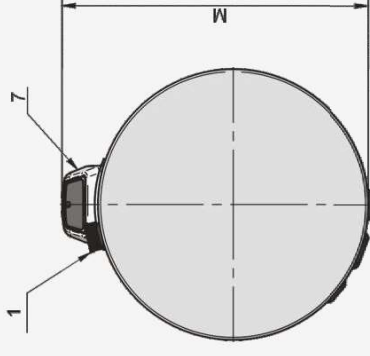
Water tank: enameled

These models have two heat exchangers with an enlarged surface area and are extremely suitable for operation with two low-temperature energy sources such as heat pump system and solar installations. Each heat exchanger is made of two concentrically positioned coils, with input-output collector connections. This design feature of the appliance allows effective energy absorption from the two heat sources.



#### DESCRIPTION

- Energy class B. The appliances have insulation of directly injected CFC Free PPU with low thermal conductivity of 0.023 W/m<sup>2</sup>K and thickness exceeding 80 mm to guarantee lower losses.
- SHIELD technology – the water tank has zirconia-based coating with lithium and cobalt oxides applied through liquid processing to make the coating more durable and resistant to high temperatures, linear expansions and high corrosion resistance.
- Two-stage anticorrosion protection – with 2 heavy magnesium anode protectors.
- Recirculation coupling.
- The appliance is optimized for integration in HVAC systems with automated control – it has three thermal sensor couplings.
- Precise thermometer.
- Housing of synthetic wear-proof material with INOX color.



 SPECIFICATIONS

Parameters				
Model	...	FV20067D2	FV30067D2	FV50080D2
Volume group	...	200	300	500
Energy efficiency class	...	B	B	B
Standing loss	W	49	52	76
Rated pressure	Mpa	0.8	0.8	0.8
Volume	L	180	246	435
Insulation thickness	mm	85	85	80
Gross weight	kg	100	129	206
Heat exchanger (main heat)				
Operating pressure	Mpa	1	1	1
Maximum temperature of the heating fluid	°C	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
Heat exchanger S1				
Surface area	m <sup>2</sup>	0.75	1.19	2.03
Volume	L	3.6	5.7	13.3
NL	...	4	8	18
Continuous output according DIN 4708	kW	22	35	60
Flow rate according DIN 4708	L/min	9	14	24
Power according EN 12897	kW	13	21	24.7
Heat-up time according EN 12897	min	45	40	57
Pressure loss	mbar	30	35	35
Maximum amount of drained water MIX 40°C according EN12897 when S1's energy source is off	L	301	424	736
Heat exchanger S2				
Surface area	m <sup>2</sup>	1.63	2.37	3.8
Volume	L	79	11.5	25
NL	...	7	12	25
Continuous output according DIN 4708	kW	42	65	81
Flow rate according DIN 4708	L/min	17	27	33
Power according EN 12897	kW	27	30.6	39.3
Heat-up time according EN 12897	min	9	16.9	22.3
Pressure loss	mbar	15	15	55
Maximum amount of drained water MIX 40°C according EN12897 when S2's energy source is off	L	135	261	450
Electrical part (auxiliary heating)				
Rated voltage	V	0/230-	0/230- /400 3N-	0/230- /400 3N-
Rated electrical power	kW	0/3	0/3/6/9	0/3/6/9
Heat-up time with electric heating element (up to 70°C) [2]	min	---/230	---/320/161/107	---/570/285/190
Maximum temperature in the tank when heated with electric heating element	°C	75	75	75
Connections				
1: Thermometer		Yes	Yes	Yes
2: S2 - Feed		G1 F	G1 F	G1 1/4 F
3: S2 - Return		G1 F	G1 F	G1 1/4 F
4: Additional socket		G1 1/2 F	G1 1/2 F	G1 1/2 F
5: S1 - Feed		G1 F	G1 F	G1 1/4 F
6: S1 - Return		G1 F	G1 F	G1 1/4 F
7: Flange with a heating element		Yes	Yes	Yes
8: Socket for thermostat		G1/2 F	G1/2 F	G1/2 F
9: Fresh water inlet - Drain		G3/4 F	G3/4 F	G1 F
10: Recirculation		G3/4 F	G3/4 F	G3/4 F
11: Hot water outlet		G3/4 F	G3/4 F	G1 F
Dimensions				
A	mm	190	190	230
B	mm	200	200	240
C	mm	445	560	645
D	mm	670	670	800
E	mm	490	605	700
G	mm	85	85	80
H	mm	1215	1605	1765
I	mm	200	315	350
J	mm	440	640	675
M	mm	760	760	890
P	mm	950	1330	1455

1. All values in the table are approximate.

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