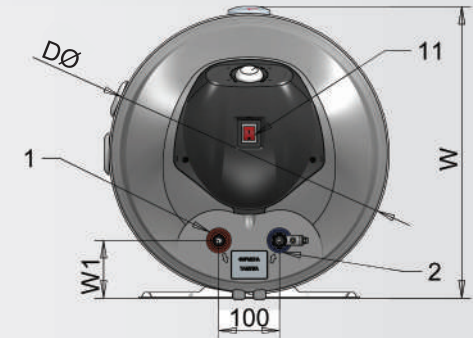


# COMBINED WATER HEATERS FOR WALL MOUNTING WITH TWO PARALLEL HEAT EXCHANGERS (S21)



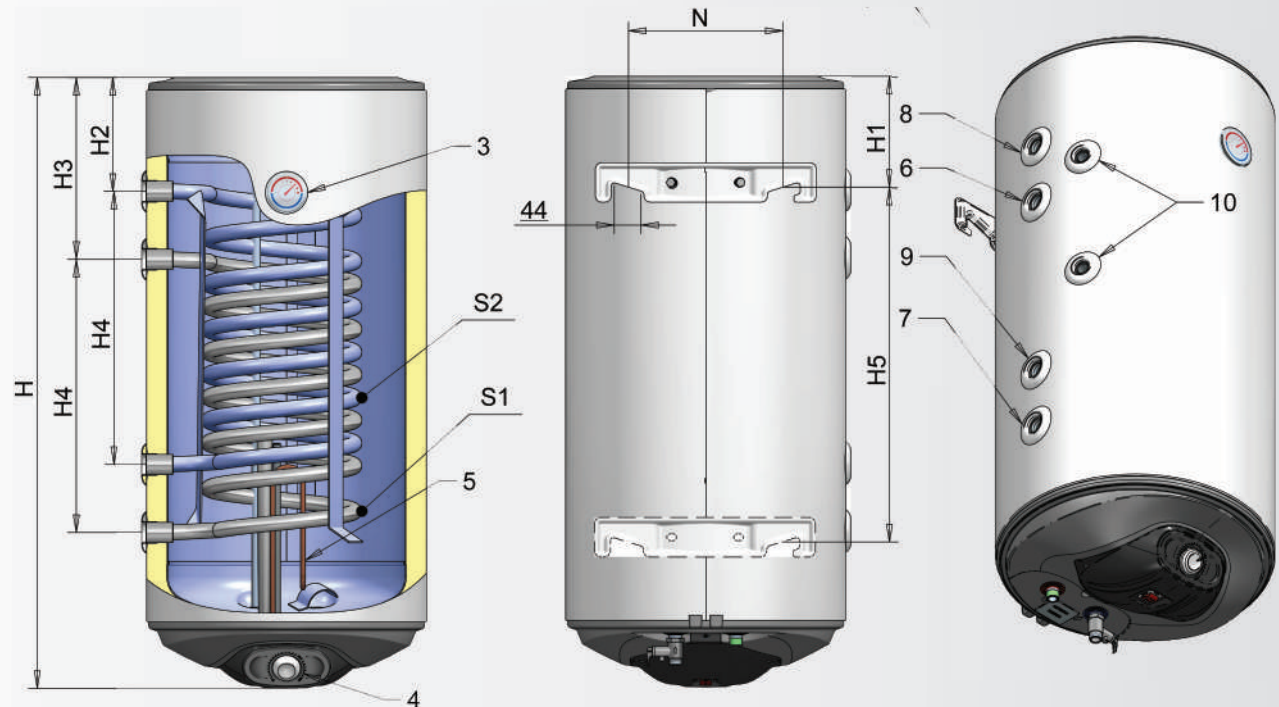
Water heaters type: indirect  
 Installation: wall mounted, vertical  
 Capacity: 100, 120 and 150l.  
 Water tank: enameled

Two parallel heat exchangers built-in within the whole volume of the appliance use two energy sources and provide highly efficient water heating regardless the season. With the appropriate combination of operation modes of both heat exchangers, water can be heated without using electricity.



## *i* DESCRIPTION

- Use of two independent alternative energy sources;
- Extremely low heat losses: Dense Closed-Cells thermal insulation from the HFO group with a thickness of more than 33 mm;
- Large heat exchanging surface of the heat exchangers;
- 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;
- Unique 6-Level Protection System;
- Specific elliptic flange for higher safety;
- Combined metal safety valve;
- Connections convenient for installation and maintenance;
- Mechanical or electronic control;
- Sensor socket for both heat exchangers;
- External capillary thermostat;
- Illuminated switch.



# COMBINED WATER HEATERS FOR WALL MOUNTING WITH TWO PARALLEL HEAT EXCHANGERS (S21)

## SPECIFICATIONS

Parameters	...	WV10046S21L WV10046S21R	WV12046S21L WV12046S21R	WV15046S21L WV15046S21R
Model	...	100	120	150
Volume group	...	B	B	B
Energy efficiency class	...	B	B	B
Rated pressure	Mpa	0.7	0.7	0.7
Volume	L	89	111	140
Insulation thickness	mm	33	33	33
Weight with packing	kg	41.5	51	58
<b>Heat exchanger (main heat)</b>				
Operating pressure	Mpa	1	1	1
Maximum temperature of the heating fluid	°C	95	95	95
Maximum temperature in the tank heated by a heat exchanger	°C	85	85	85
<b>Heat exchanger S1</b>				
Surface area	m <sup>2</sup>	0.36	0.53	0.53
Volume	L	1.72	2.58	2.58
Power according EN 12897	kW	8.6	12.7	12
Heat-up time according EN 12897	min	30	27	33
Pressure loss	mbar	35	40	40
Maximum amount of drained water MIX 40°C according EN12897 when S1's energy source is off	L	143	183	219
<b>Heat exchanger S2</b>				
Surface area	m <sup>2</sup>	0.36	0.53	0.53
Volume	L	1.72	2.58	2.58
Power according EN 12897	kW	9.1	13.4	12.5
Heat-up time according EN 12897	min	22	21	27.5
Pressure loss	mbar	35	40	40
Maximum amount of drained water MIX 40°C according EN12897 when S2's energy source is off	L	111	149	190
<b>Electrical part (auxiliary heating)</b>				
Rated voltage	V~	230	230	230
Rated electrical power	kW	2/3	2/3	2/3
Heat-up time with electric heating element (up to 70°C) [2]	min	184/123	230/153	290/193
Maximum temperature in the tank when heated with electric heating element	°C	75	75	75
<b>Connections</b>				
1: Hot water outlet		G1/2 M	G1/2 M	G1/2 M
2: Cold water inlet - Drain		G1/2 M	G1/2 M	G1/2 M
3: Temperature indicator		yes	yes	yes
4: Control panel		yes	yes	yes
5: Flange with a heating element		yes	yes	yes
6: Heat exchanger S1 - Feed		G3/4 F	G3/4 F	G3/4 F
7: Heat exchanger S1 - Return		G3/4 F	G3/4 F	G3/4 F
8: Heat exchanger S2 - Feed		G3/4 F	G3/4 F	G3/4 F
9: Heat exchanger S2 - Return		G3/4 F	G3/4 F	G3/4 F
10: Socket for thermostat		G1/2 F	G1/2 F	G1/2 F
T1: Illuminated switch		yes	yes	yes
<b>Dimensions</b>				
H	mm	1005	1170	1420
H1	mm	185	185	185
D	mm	462	462	462
W1	mm	96	96	96
W	mm	484	484	484
H2	mm	187	184	434
H3	mm	300	290	540
H4	mm	450	630	630
H5	mm	-	753	1003
N	mm	255	255	240

1. All values in the table are approximate.
2. The heat-up time with the electric resistance heater is for actual capacity.