

Buffer tank VSCH PRO Basic



Use:



Heating



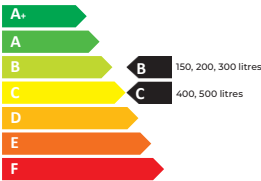
DHW



Solar



Heat pump



Advantages:

- Specially designed to work as forced circulation or drain-back systems combined with a heat pump or boiler.
- In forced circulation systems, the expansion vessel is integrated into the tank.
- Patented tank ES1147517.
- DN25 coil made with 316L stainless steel corrugated tube.
- Installation of a **magnesium anode is not required**.
- Equipped with a solar control unit and high-efficiency pump.
- **The risk of Legionella is significantly reduced.**
- **50 mm insulation** with injected rigid polyurethane.
- **5-year warranty**, subject to the manufacturer's terms and conditions.

Models:

- Vertical 150, 200, 300, 400 and 500 L.

Accessories:

- 1 1/4" 1500 W copper heating element + Thermostat
- 1 1/4" 2000 W copper heating element + Thermostat
- 1 1/4" 3000 W copper heating element + Thermostat
- Pumping group
- Electronic control unit

Technical characteristics:

Model	VSCH 150 BASIC PRO	VSCH 200 BASIC PRO	VSCH 300 BASIC PRO	VSCH 400 BASIC PRO	VSCH 500 BASIC PRO
Code	2012331	2012316	2012317	2012318	2012322
Capacity [l]	143	190	272	399	470
Maximum tank pressure	3 bar				
Exchanger consumption surface [m2]	2.70	2.70	3.24	4.50	4.50
Consumption volume [l]	9.00	9.00	10.80	15.00	15.00
Consumption max. pressure	8 bar				
Outer finish	White lacquered galvanised steel				
Insulation	Injected rigid polyurethane. Density: 42kg/m3				
Insulation thickness [mm]	40			50	
Diameter [mm]	540			700	
Height [mm]	1078	1358	1861	1703	1953
Weight when empty [kg]	72	76	84	112	137
Boiler material	Descaled ST37-2 carbon steel				
DHW production power [kW]*	29.3	29.3	44	73.3	73.3
Flow rate [l/min]	12	12	18	30	30
Pressure drop [mca]	0.6	0.6	1.5	3.5	3.5
Primary exchanger					
Primary exchanger surface [m2]	0.70	0.84	1.02		1.20
Primary volume [l]	6.5	9.7	10.2		10.80
Recommended flow [l/min]	2.00	3.00	4.00		6.00
Pressure drop [mca]	0.6	0.9	1.5		1.7
Primary exchanger power [kW]**	2.8	4.2	5.6		8.4
Expansion vessel/DB chamber	8 litres				
Maximum pressure/temp.	9 bar/100°C				

*Tank temp. = 60°C, CW temp. = 10°C / DHW temp. = 45°C; **Primary 65/45°, secondary 10/45° at recommended flow rates. Maximum flow rate 8 l/min.

The technical drawings include:

- Front View:** Shows a rectangular tank with a central vertical pipe (1) and a large circular access door (11). Dimensions include width $\varnothing D$, height $L+10$, and a top flange diameter of 8.
- Side View:** Shows the tank's profile with a height dimension C and a base width dimension B . It includes a handle on the left and a pump group (6) on the right.
- Top View:** A circular cross-section showing the internal layout with 120-degree angles between ports. Ports are labeled A, B, and C. A central vertical pipe (1) is shown.
- Internal Cross-Section (Left):** Shows the internal components including a solar coil (14), a safety valve (13), and a temperature probe (10). Dimensions include i , h , and g .
- Internal Cross-Section (Right):** Shows the internal components including a solar coil (14), a safety valve (13), and a temperature probe (10). Dimensions include f , e , d , and h .

SOLAR primary circuit:

1. Forced: 9 bar safety valve
2. Forced: Solar return
3. Solar outlet [1/2" M]
4. Forced: Solar expansion valve
5. Solar coil
6. Solar pumping group
7. Solar control unit

BUFFER TANK secondary circuit:

8. 3 bar safety valve / purge
9. BUFFER installation connection
10. Temperature probe / installation
11. Connection for electrical