Pure+ Fresh-water storage tank 500 l with 2 smooth-pipe heat exchangers



Fresh-water storage tank for highest demands on drinking water hygiene and energy efficiency.
The structure of the storage tank is fundamentally different from usual large-volume domestic hot-water tanks. A built-in corrugated stainless steel pipe separates the drinking water from the heating water, while serving as a powerful heat exchanger at the same time. Thus, the advantages of a buffer tank are combined with those of a continuous flow water heater.
The heating water serves as actual heat storage while the drinking water flows through the corrugated stainless steel pipe only if required and, thus, a legionella-safe domestic water heating is ensured. You do not need a protection programme against legionella in the controller. At all times, the consumer is provided with hygienically clean, fresh water at the desired temperature.

Due to the two additional smooth-pipe heat exchangers, more heat generators can be integrated at any time and their energy can be fed into the fresh-water storage tank.

Data pursuant to EU regulation 812/2013

Name of supplier's trade marks:	OEG GmbH
Model identification of the supplier:	516005288 - Fresh-water storage tank 500 l with 2 smooth-pipe heat exchangers
Energy efficiency class of the model:	A+
Heat retaininglosses in watts:	43
Storage tank volume in litres:	507

General

OEG Nr.:	516005288
Rated volume according to EN 12897:	500
Colour:	silver
Insulation according to DIN 4102-1 Fire Protection Class B2:	solid foamed insulation
Weight [kg]:	168
Total height including insulation [mm]:	1770
Diameter with insulation [mm]:	760
Tilt height [mm]:	1925

Energy

Energy efficiency class according to EU regulation no. 812/2013:	A+
Heat retaining loss according to EN 12897 [W]:	43
Heat losses in stand-by mode according to DIN 12897 [kW/h / 24 h]:	1,032
Output capacity (45°C) [l]:	285
Performance indicator NL following DIN 4708:	3

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Tank

Real volume according to EN 12897 [l]:	507
p_{max} Tank [bar]:	3
t_{max} Tank [°C]:	95
t_{min} Tank [°C]:	20

DHW heat exchanger

DHW heat exchanger area [m²]:	6
DHW heat exchanger volume [l]:	26,70
p_{max} DHW heat exchanger [bar]:	6
t_{max} DHW heat exchanger [°C]:	95

Smooth-pipe heat exchanger

Smooth-pipe heat exchanger [number]:	2
Smooth-pipe heat exchanger area bottom [m²]:	1,88
Smooth-pipe heat exchanger area top [m²]:	1,74
Smooth-pipe heat exchanger volume bottom:	12,40
Smooth-pipe heat exchanger volume top:	11,40
p_{max} Smooth-pipe heat exchanger [bar]:	10
t_{max} Smooth-pipe heat exchanger [°C]:	130

Connections

Connection layout:	180°
Connection sensor [Ø mm / terminal]:	6 mm
Connection cold / hot water:	Rp 1 1/4"
Connection heat generator [thread]:	R 1"
Connection heat exchanger [thread]:	Rp 1"
Connection heating element [thread]:	Rp 1 1/2"
Max. immersion depth of screw-in heater [mm]:	600