

Pure+ Fresh-water storage tank 300 litres with 3 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 three 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:	516008316 - Fresh-water storage tank 300 litres with 3 smooth pipe heat exchangers
Energy efficiency class of the model:	A+
Heat retaining losses in watts:	36
Storage tank volume in litres:	291

General

OEG Nr.:	516008316
Rated volume according to EN 12897:	300
Colour:	blue
Insulation according to DIN 4102-1 Fire Protection Class B2:	solid foamed insulation
Weight [kg]:	138
Total height including insulation [mm]:	1750
Diameter without insulation [mm]:	500
Diameter with insulation [mm]:	610
Tilt height [mm]:	1830

Energy

Energy efficiency class according to EU regulation no. 812/2013:	A+
Heat retaining loss according to EN 12897 [W]:	36
Heat losses in stand-by mode according to DIN 12897 [kW/h / 24 h]:	0,864
Output capacity (45°C) [l]:	175
Performance indicator NL following DIN 4708:	1,60

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Tank

Real volume according to EN 12897 [l]:	291
p _{max} Tank [bar]:	3
t _{max} Tank [°C]:	95
t _{min} Tank [°C]:	20

DHW heat exchanger

DHW heat exchanger area [m²]:	4,40
DHW heat exchanger volume [l]:	19
p _{max} DHW heat exchanger [bar]:	6
t _{max} DHW heat exchanger [°C]:	95

Smooth-pipe heat exchanger

Smooth-pipe heat exchanger [number]:	3
Smooth-pipe heat exchanger area bottom [m²]:	1,15
Smooth-pipe heat exchanger surface middle [m²]:	1,15
Smooth-pipe heat exchanger area top [m²]:	0,77
Smooth-pipe heat exchanger volume bottom:	7,50
Smooth-pipe heat exchanger volume middle:	7,50
Smooth-pipe heat exchanger volume top:	5,05
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]:	500