

OEG Hygienic storage tank 300 litres with 2 smooth pipe heat exchangers



This OEG hygienic storage tank fulfills the highest demands on the hygiene of drinking water and energy efficiency. The structure of this tank is fundamentally different from usual, large-volume DHW storage tanks. A built-in corrugated stainless steel pipe separates the drinking water from the heating water and - at the same time - serves as a powerful heat exchanger. This combines the advantages of a buffer tank with those of an instantaneous water heater.

The drinking water flows through the corrugated stainless steel pipe in the water of the heated tank only if required, and the stratification of the heating water is not disturbed. This leads to a very low energy consumption and you can guarantee your customers legionella-free drinking water.

You do not need a legionella protection programme in the regulation.

At all times, consumers are provided with hygienically clean, fresh water at their desired temperature.

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

General

OEG Nr.:	516008294
rated volume according to EN 12897:	300
Colour:	silver
Insulation according to DIN 4102-1 Fire Protection Class B2:	firmly foamed A+ insulation
Weight [kg]:	110
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 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°) [l]:	175
Performance indicator NL following DIN 4708:	1,60

Tank

Real volume according to EN 12897 [l]:	294
p_{\max} tank [bar]:	3
t_{\max} tank [°C]:	95

Domestic hot water heat exchanger

Domestic hot water heat exchanger area [m ²]:	4,40
Domestic hot water heat exchanger volume [l]:	19,30

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p_{\max} Domestic hot water heat exchanger [bar]:	6
t_{\max} Domestic hot water heat exchanger [°C]:	95

Smooth-pipe heat exchanger

Smooth-pipe heat exchanger [number]:	2
Smooth-pipe heat exchanger area bottom [m ²]:	1,15
Smooth-pipe heat exchanger area top [m ²]:	0,77
Smooth-pipe heat exchanger volume bottom:	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]:	6mm
Connection cold / hot water:	Rp 1¼"
Connection heat generator [thread]:	R 1"
Connection heat exchanger [thread]:	Rp 1"
Connection heating element [thread]:	Rp 1½"
