

Pure+ Fresh-water storage tank 3,000 litres 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.

General

OEG Nr.:	516008303
Rated volume according to EN 12897:	3000
Colour:	white
Insulation according to DIN 4102-1 Fire Protection Class B2:	removable PES fleece insulation 0.036 W/(mK)
Weight [kg]:	545
Total height including insulation [mm]:	2300
Diameter without insulation [mm]:	1400
Diameter with insulation [mm]:	1600
Tilt height [mm]:	2405

Energy

Output capacity (45°C) [l]:	1714
Performance indicator NL following DIN 4708:	15

Tank

$p_{\max}$ Tank [bar]:	3
$t_{\max}$ Tank [°C]:	95
$t_{\min}$ Tank [°C]:	20

DHW heat exchanger

DHW heat exchanger area [m²]:	9
DHW heat exchanger volume [l]:	39,50
$p_{\max}$ DHW heat exchanger [bar]:	6
$t_{\max}$ DHW heat exchanger [°C]:	95

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Smooth-pipe heat exchanger

Smooth-pipe heat exchanger [number]:	2
Smooth-pipe heat exchanger area bottom [m²]:	5,50
Smooth-pipe heat exchanger area top [m²]:	5,50
Smooth-pipe heat exchanger volume bottom:	36
Smooth-pipe heat exchanger volume top:	36
p _{max} Smooth-pipe heat exchanger [bar]:	10
t _{max} Smooth-pipe heat exchanger [°C]:	130

Connections

Connection layout:	90°
Connection sensor [Ø mm / terminal]:	6 mm
Connection cold / hot water:	Rp 1 1/4"
Connection heat generator [thread]:	Rp 1 1/2"
Connection heat exchanger [thread]:	Rp 1"
Connection heating element [thread]:	Rp 1 1/2"
Max. immersion depth of screw-in heater [mm]:	1200