

Reverse+ Hot-water storage tank with buffer 1 additional heat exchanger



High-quality heat pump combination storage tank REVERSE+ designed to be used not only for DHW heating but also for cooling and heating. The large heat exchanger surface of the double coil has been specially developed for the heating and supply of domestic hot water in combination with heat pumps and solar systems. The additional buffer storage tank increases the capacity of the heating circuit and, thereby, avoids cycling of the heat pump. The buffer area is thermally separated from the DHW area and can, therefore, be used independently for cooling or heating of surface heatings.

In order to protect the tank surface from condensation in the cooling function, the storage tank is equipped with a special, high-quality anti-corrosive coating. As it may come to condensate formation with cooling temperatures in conjunction with higher ambient temperatures, a special protection for the involved system components is necessary. The high-quality OEG A+ insulation ensures the smallest temperature losses also for these storage tanks.

As an addition to the heat pump system, it is also possible to operate an optional immersion heater in the DHW storage tank as well as in the subjacent storage buffer tank.

Data pursuant to EU regulation 812/2013

Name of supplier's trade marks:	OEG GmbH
Model identification of the supplier:	516005670 - Hot-water storage tank with buffer 1 additional heat exchanger
Heat retaining losses in watts:	42
Storage tank volume in litres:	470

General

OEG Nr.:	516005670
Rated volume according to EN 12897:	500
Colour:	white
Insulation according to DIN 4102-1 Fire Protection Class B2:	solid foamed insulation
Weight [kg]:	185
Total height including insulation [mm]:	1762
Diameter with insulation [mm]:	760
Tilt height [mm]:	1910

Energy

Heat retaining loss according to EN 12897 [W]:	42
Heat losses in stand-by mode according to DIN 12897 [kW/h / 24 h]:	1,008
Output capacity (45°C) [l]:	599
Performance indicator NL following DIN 4708:	12

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Tank

Real volume according to EN 12897 [l]:	470
p _{max} Tank [bar]:	3
t _{max} Tank [°C]:	95
t _{min} Tank [°C]:	10
t _{max} Ambient air [°C]:	30
Max. rel. air humidity [%]:	80
Buffet storage tank capacity (part of the actual capacity) [l]:	100

Domestic hot water tank (enamelled according to DIN 4753-3)

Domestic hot water tank volume (Part of the real volume) [l]:	370
p _{max} Domestic hot water tank [bar]:	10
t _{max} Domestic hot water tank [°C]:	95

Smooth-pipe heat exchanger

Smooth-pipe heat exchanger [number]:	2
Smooth-pipe heat exchanger area bottom [m²]:	1
Smooth-pipe heat exchanger area top [m²]:	2,40
Smooth-pipe heat exchanger volume bottom:	6
Smooth-pipe heat exchanger volume top:	16
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:	R 1"
Connection heat generator [thread]:	lower R 1" / uper Rp 1 1/2"
Connection heat exchanger [thread]:	Rp 1"
Connection circulation:	R 3/4"
Connection heating element [thread]:	Rp 1 1/2"
Service hatch (LK 150):	115 / 180
Max. immersion depth of flange heater [mm]:	540
Max. immersion depth of screw-in heater [mm]:	600