

Pure+ Fresh-Water storage tank 500 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.

Data pursuant to EU regulation 812/2013

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|---------------------------------------|--|
| Name of supplier's trade marks: | OEG GmbH |
| Model identification of the supplier: | 516008121 - Fresh-Water storage tank 500 litres with 2 smooth pipe heat exchangers |
| Energy efficiency class of the model: | A+ |
| Heat retaining losses in watts: | 43 |
| Storage tank volume in litres: | 507 |

General

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|--|-------------------------|
| OEG Nr.: | 516008121 |
| Rated volume according to EN 12897: | 500 |
| Colour: | blue |
| 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

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|--|-------|
| 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

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|--|-------|
| 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

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|--|-------|
| 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

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|---|-----------|
| 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 |