

# OEG Hygienic storage tank 500 litres with 2 smooth-pipe heat exchangers



With this OEG hygienic storage tank, the highest demands on the hygiene of drinking water and energy efficiency are fulfilled. The structure of this tank is fundamentally different from usual, large-volume service water 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. Thus, the advantages of a buffer tank are combined with those of a hot water heater.

Only if needed, the drinking water flows through the corrugated stainless steel pipe in the water of the heated tank 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. Consumers are provided with hygienically-clean, fresh water at their desired temperature at any time.

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

## General

|  |                             |
|--|-----------------------------|
| OEG Nr.:   | 516005288                   |
| rated volume according to EN 12897:                          | 500                         |
| Colour:  | silver                      |
| Insulation according to DIN 4102-1 Fire Protection Class B2: | firmly foamed A+ insulation |
| Weight [kg]:   | 168                         |
| Total height including insulation [mm]:                      | 1770                        |
| Diameter without insulation [mm]:                            | 650                         |
| Diameter with insulation [mm]:                               | 760                         |
| Tilt height [mm]:  | 1925                        |

## Energy

|  |       |
|--|-------|
| Energy efficiency class according to EU regulation no. 812/2013:   | A+    |
| Heat 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°) [l]:   | 285   |
| Performance indicator NL following DIN 4708:                       | 3     |

## Tank

|  |     |
|--|-----|
| Real volume according to EN 12897 [l]: | 507 |
| $p_{\max}$ tank [bar]:                 | 3   |
| $t_{\max}$ tank [°C]:                  | 95  |

## Domestic hot water heat exchanger

|   |       |
|---|-------|
| Domestic hot water heat exchanger area [m <sup>2</sup> ]: | 6     |
| Domestic hot water heat exchanger volume [l]:             | 26,70 |

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

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## Smooth-pipe heat exchanger

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|   |       |
|---|-------|
| Smooth-pipe heat exchanger [number]:                      | 2     |
| Smooth-pipe heat exchanger area bottom [m <sup>2</sup> ]: | 1,88  |
| Smooth-pipe heat exchanger area top [m <sup>2</sup> ]:    | 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   |

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## Connections

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|                                      |        |
|--------------------------------------|--------|
| 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" |

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