

# Pure+ Fresh-water storage tank 400 litres with 1 smooth pipe heat exchanger



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 additional smooth-pipe heat exchanger, a heat generators can be integrated at any time and its energy can be fed into the fresh-water storage tank.

## Data pursuant to EU regulation 812/2013

|                                       |                                                                                   |
|---------------------------------------|-----------------------------------------------------------------------------------|
| Name of supplier's trade marks:       | OEG GmbH                                                                          |
| Model identification of the supplier: | 516008273 - Fresh-water storage tank 400 litres with 1 smooth pipe heat exchanger |
| Energy efficiency class of the model: | A+                                                                                |
| Heat retaining losses in watts:       | 40                                                                                |
| Storage tank volume in litres:        | 413                                                                               |

## General

|                                                              |                         |
|--------------------------------------------------------------|-------------------------|
| OEG Nr.:                                                     | 516008273               |
| Rated volume according to EN 12897:                          | 400                     |
| Colour:                                                      | red                     |
| Insulation according to DIN 4102-1 Fire Protection Class B2: | solid foamed insulation |
| Weight [kg]:                                                 | 134                     |
| Total height including insulation [mm]:                      | 1725                    |
| Diameter with insulation [mm]:                               | 710                     |
| Tilt height [mm]:                                            | 1865                    |

## Energy

|                                                                    |       |
|--------------------------------------------------------------------|-------|
| Energy efficiency class according to EU regulation no. 812/2013:   | A+    |
| Heat retaining loss according to EN 12897 [W]:                     | 40    |
| Heat losses in stand-by mode according to DIN 12897 [kW/h / 24 h]: | 0,960 |
| Output capacity (45°C) [l]:                                        | 230   |
| Performance indicator NL following DIN 4708:                       | 2     |

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## Tank

|                                        |     |
|----------------------------------------|-----|
| Real volume according to EN 12897 [l]: | 413 |
| p <sub>max</sub> Tank [bar]:           | 3   |
| t <sub>max</sub> Tank [°C]:            | 95  |
| t <sub>min</sub> Tank [°C]:            | 20  |

## DHW heat exchanger

|                                            |       |
|--------------------------------------------|-------|
| DHW heat exchanger area [m²]:              | 6     |
| DHW heat exchanger volume [l]:             | 26,70 |
| p <sub>max</sub> DHW heat exchanger [bar]: | 6     |
| t <sub>max</sub> DHW heat exchanger [°C]:  | 95    |

## Smooth-pipe heat exchanger

|                                                    |       |
|----------------------------------------------------|-------|
| Smooth-pipe heat exchanger [number]:               | 1     |
| Smooth-pipe heat exchanger area bottom [m²]:       | 1,88  |
| Smooth-pipe heat exchanger volume bottom:          | 12,30 |
| p <sub>max</sub> Smooth-pipe heat exchanger [bar]: | 10    |
| t <sub>max</sub> Smooth-pipe heat exchanger [°C]:  | 130   |

## Connections

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