

## Pure+ Built-under fresh-water storage tank 500 litres horizontal



Fulfill your customers' highest demands on the hygiene of drinking water and efficiency - with the horizontal OEG built-under hygienic storage tanks!

The structure of these storage tanks is fundamentally different from usual large-volume domestic water tanks. A built-in corrugated stainless steel pipe separates the drinking water from the heating water and serves as a powerful heat exchanger at the same time. Thus, the advantages of a buffer tank are combined with those of flow heater.

The drinking water flows through the corrugated stainless steel pipe in the water of the heated tank only if required. This leads to a very low energy consumption, and you can guarantee your customers legionella-free drinking water. You will not need a legionella protection programme in the regulation. At all times, the consumer has hygienically-clean, fresh water at their desired temperature.

Due to the very solid, powder-coated steel sheet casing, the storage tank is particularly suitable as a built-under storage tank for all kinds of oil and gas condensing boilers of almost any manufacturer. The extremely sturdy construction allows loads up to 500 kg.

The horizontal arrangement of these hygienic storage tanks is ideal for the use in places that must be ruled out for vertical (standing) tanks (e.g. below inclined walls and stairs). Thus, your customers can benefit from the advantages of a hygienic storage tank even if space is limited.

Just compare! Due to the horizontal arrangement of the heat exchangers in the OEG hygienic storage tanks, you offer your customers advantage over other products in the market. Only due to the horizontal installation of the heat exchangers, an efficient thermal stratification is achieved. The generously dimensioned heat exchanger surfaces provide for another energetic advantage over other products available in the market.

### **Insulation:**

Firmly foamed A+ insulation in Fire Protection Class B2 (as per DIN 4102-1)

### **Tank made of S235JR steel:**

Maximum operating pressure: 3 bar

Maximum operating temperature: 95° C

### **DHW heat exchanger made of stainless steel 1.4404:**

Maximum operating pressure: 6 bar

Maximum operating temperature: 95° C

### **Note:**

An electric heating element is possible via an Rp 1½" connection.

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## Data pursuant to EU regulation 812/2013

|                                       |                                                                        |
|---------------------------------------|------------------------------------------------------------------------|
| Name of supplier's trade marks:       | OEG GmbH                                                               |
| Model identification of the supplier: | 516006447 - Built-under fresh-water storage tank 500 litres horizontal |
| Energy efficiency class of the model: | A+                                                                     |
| Heat retaining losses in watts:       | 43                                                                     |
| Storage tank volume in litres:        | 498                                                                    |

## General

|                                                              |                         |
|--------------------------------------------------------------|-------------------------|
| OEG Nr.:                                                     | 516006447               |
| Rated volume according to EN 12897:                          | 500                     |
| Colour:                                                      | red                     |
| Insulation according to DIN 4102-1 Fire Protection Class B2: | solid foamed insulation |
| Weight [kg]:                                                 | 239                     |
| Total height including insulation [mm]:                      | 830                     |
| Width [mm]:                                                  | 780                     |
| Length [mm]:                                                 | 1765                    |

## Energy

|                                                                    |       |
|--------------------------------------------------------------------|-------|
| 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]:                                        | 290   |
| Performance indicator NL following DIN 4708:                       | 3     |

## Tank

|                                        |     |
|----------------------------------------|-----|
| Real volume according to EN 12897 [l]: | 498 |
| $p_{\max}$ Tank [bar]:                 | 3   |
| $t_{\max}$ Tank [°C]:                  | 95  |
| $t_{\min}$ Tank [°C]:                  | 20  |

## DHW heat exchanger

|                                      |      |
|--------------------------------------|------|
| DHW heat exchanger area [m²]:        | 5,10 |
| DHW heat exchanger volume [l]:       | 23   |
| $p_{\max}$ DHW heat exchanger [bar]: | 6    |
| $t_{\max}$ DHW heat exchanger [°C]:  | 95   |

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litres horizontal



Connections

|                                               |            |
|-----------------------------------------------|------------|
| Connection layout:                            | front/rear |
| Connection sensor [Ø mm / terminal]:          | 6 mm       |
| Connection cold / hot water:                  | Rp 1 1/4"  |
| Connection heat generator [thread]:           | R 1"       |
| Connection heating element [thread]:          | Rp 1 1/2"  |
| Max. immersion depth of screw-in heater [mm]: | 1150       |