

# Pure+ Fresh-water storage tank 3,000 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.

## General

|                                                              |                                              |
|--------------------------------------------------------------|----------------------------------------------|
| OEG Nr.:                                                     | 516008305                                    |
| Rated volume according to EN 12897:                          | 3000                                         |
| Colour:                                                      | red                                          |
| Insulation according to DIN 4102-1 Fire Protection Class B2: | removable PES fleece insulation 0.036 W/(mK) |
| Weight [kg]:                                                 | 545                                          |
| Total height including insulation [mm]:                      | 2300                                         |
| Diameter without insulation [mm]:                            | 1400                                         |
| Diameter with insulation [mm]:                               | 1600                                         |
| Tilt height [mm]:                                            | 2405                                         |

## Energy

|                                              |      |
|----------------------------------------------|------|
| Output capacity (45°C) [l]:                  | 1714 |
| Performance indicator NL following DIN 4708: | 15   |

## Tank

|                        |    |
|------------------------|----|
| $p_{\max}$ Tank [bar]: | 3  |
| $t_{\max}$ Tank [°C]:  | 95 |
| $t_{\min}$ Tank [°C]:  | 20 |

## DHW heat exchanger

|                                      |       |
|--------------------------------------|-------|
| DHW heat exchanger area [m²]:        | 9     |
| DHW heat exchanger volume [l]:       | 39,50 |
| $p_{\max}$ DHW heat exchanger [bar]: | 6     |
| $t_{\max}$ DHW heat exchanger [°C]:  | 95    |

## Pure+ Fresh-water storage tank 3,000 litres with 2 smooth pipe heat exchangers



### Smooth-pipe heat exchanger

|                                                    |      |
|----------------------------------------------------|------|
| Smooth-pipe heat exchanger [number]:               | 2    |
| Smooth-pipe heat exchanger area bottom [m²]:       | 5,50 |
| Smooth-pipe heat exchanger area top [m²]:          | 5,50 |
| Smooth-pipe heat exchanger volume bottom:          | 36   |
| Smooth-pipe heat exchanger volume top:             | 36   |
| p <sub>max</sub> Smooth-pipe heat exchanger [bar]: | 10   |
| t <sub>max</sub> Smooth-pipe heat exchanger [°C]:  | 130  |

### Connections

|                                               |           |
|-----------------------------------------------|-----------|
| Connection layout:                            | 90°       |
| Connection sensor [Ø mm / terminal]:          | 6 mm      |
| Connection cold / hot water:                  | Rp 1 1/4" |
| Connection heat generator [thread]:           | Rp 1 1/2" |
| Connection heat exchanger [thread]:           | Rp 1"     |
| Connection heating element [thread]:          | Rp 1 1/2" |
| Max. immersion depth of screw-in heater [mm]: | 1200      |