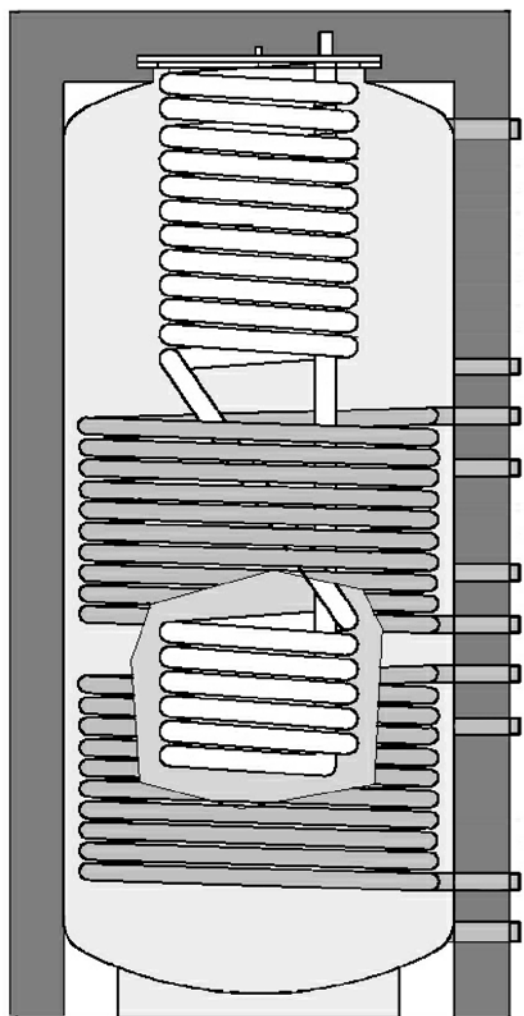


# PHÖNIX Universal Buffer Storage Tank with Freshwater Heat Exchanger

Type UPK/FW  
(650 to 1,050 litres capacity)



- Tank with stainless steel insert (corrugated pipe) as fresh water heat exchanger or domestic water heating and solar heating
- Variable tank volume: 650, 800 or 1,050 litres
- High energy savings by extra thick tank insulation (100 mm flexible foam) and large scale heat exchangers for optimal energy gains
- Optimized layering of the solar energy by two internal solar heat exchangers in the lower and middle tank region
- Insulation is easy to replace and remount
- Tank fits through almost every door
- It is possible to combine several tanks in any order for bigger systems
- Clean drinking water heating (flow-type heater principle) by large-scale freshwater heat exchanger (corrugated pipe) made of stainless steel

## Technical data

### Volume

650 to 1,050 litres

### Heat exchanger solar

straight-tube heat exchanger 2 x 2.0 m<sup>2</sup> bis 2 x 2.9 m<sup>2</sup>

### Fresh water heat exchanger

Stainless steel corrugated pipe 5 m<sup>2</sup>

### Domestic water storage tank, max. operating pressure

$\Delta p = \text{max. 6 bars}$  difference to buffer tank pressure

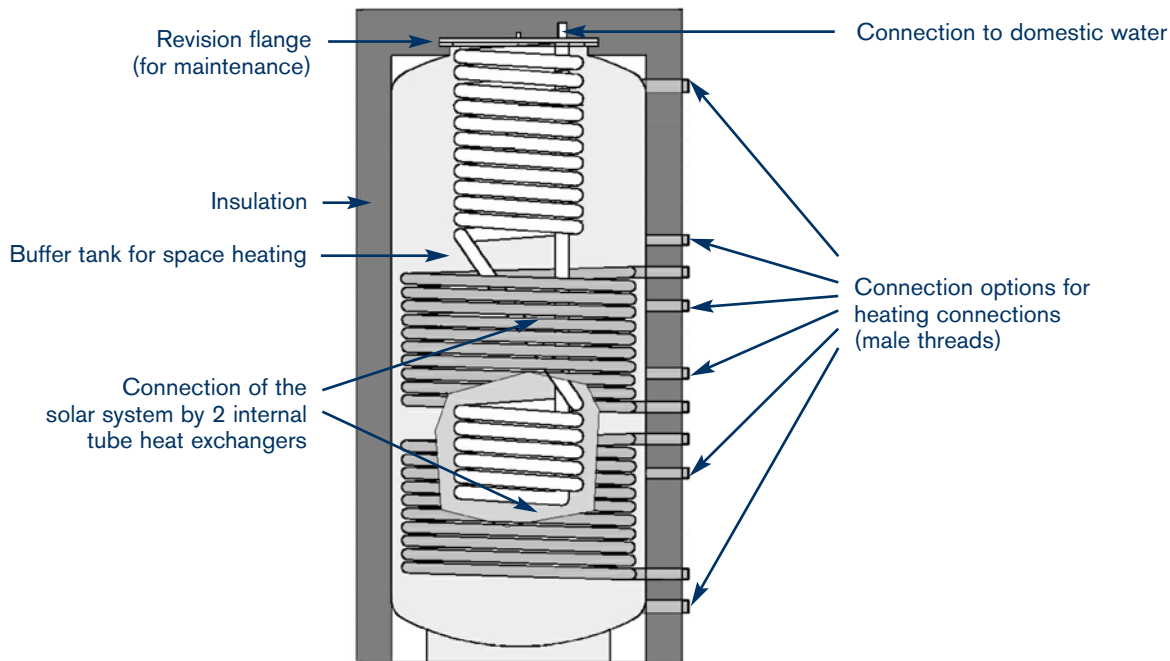
### Buffer, max. operating pressure

3 bars

### Maximum working temperature

95°C

| Type   | UPK 650/FW  | UPK800/FW | UPK1050/FW |
|--|---|-----------|------------|
| Nominal volume (litres)  | 650   | 800       | 1,050      |
| Heat exchanger solar (m <sup>2</sup> )                             | 2 x 2.0   | 2 x 2.4   | 2 x 2.9    |
| Insulation   | PU soft foam, 100 mm, replaceable ( $\lambda = 0.04$ W/mK)  |           |            |
| Height with insulation (m)   | 1.98  | 2.03      | 2.01       |
| Diameter with insulation (m)                                       | 0.90  | 0.99      | 1.10       |
| Diameter without insulation (m)                                    | 0.70  | 0.79      | 0.90       |
| Tilt height (m)  | 2.01  | 2.06      | 2.05       |
| Connection(s) buffer   | 5/4" male thread and 1" male thread (flat sealed)   |           |            |
| Connection(s) solar  | 1" male thread (flat sealed)  |           |            |
| Connection(s) domestic water                                       | 1" male thread (flat sealed)  |           |            |
| Total weight (kg)  | 200   | 245       | 330        |
| Hot water preparation  | Fresh water heat exchanger (corrugated pie) made of stainless steel 1.4571 for integration inside the buffer storage tank type UP, volume 20 litres, possible for modification of the buffer tank into a combi tank type UPK or inversely, mounting via the flange ring from above into the buffer tank |           |            |
| Capacity number NL   | 2.5 with loaded stand-by volume, 6.2 with completely loaded buffer volume at 65°C (values measured for the UPK800/FW)   |           |            |
| Tap peak volume (10 minutes) in litres hot water (from 10 to 45°C) | 324 litres with completely loaded buffer volume at 65°C<br>210 litres with loaded stand-by volume (upper buffer part third) at 65°C   |           |            |
| Warranty   | See general terms and conditions of sales of PHÖNIX SonnenWärme AG  |           |            |



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