



Kombi

# WIKORA

SolarSpeicherSysteme

## Stratified Solar Combi Buffer Tank WIKOSOL 804/1004/1504/2004

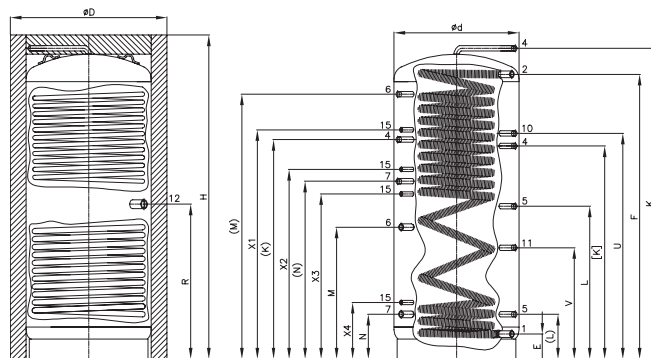
Design with two solar heat exchanger

**WIKORA Solar Combi Tank** with integrated stainless steel DHW heat exchanger and in the upper and lower range two high efficient solar heat exchanger. This solution allows significant advantages. Free standing unit manufactured according to DIN 4753-1, buffer tank and solar heat exchangers are made of steel sheet (S235JRG2) in certified quality, the internal is bare, the external is coated with corrosion proof lacquer. The DHW heat exchanger is made from stainless steel (1.4404) and is certified for quality.

**Heating** of the buffer water is either directly, using external heating sources such as gas/oil boiler, heat pump, wood pellet or log and District heating and stratified loading indirectly by solar plant via the two very effective high recovery solar heat exchangers; hygienic legionella free DHW production is achieved through the high efficiency stainless steel heat exchanger.

**Thermal insulation** 100 mm soft foam with stable PS-cover in white (RAL 9010). Supplied separate for onsite-assembly.

**Standard design** sockets for thermometers and sensor points, loading connections for heating water, solar system and DHW.



WIKOSOL 804/1004/1504/2004

| Type  | WIKOSOL 804  | WIKOSOL 1004 | WIKOSOL 1504 | WIKOSOL 2004 |
|---|--|--------------|--------------|--------------|
| Item number                                   | 477940   | 479940       | 471504       | 472004       |
| Capacity buffer                               | litre 790  | 900          | 1500         | 2000         |
| Max working temperature tank                  | °C 95  | 95           | 95           | 95           |
| Max working pressure DHW/solar heat exchanger | bar 10/10  | 10/10        | 10/10        | 10/10        |
| Max working pressure buffer tank              | bar 3  | 3            | 3            | 3            |
| Capacity DHW-heat exchanger                   | litre ca 45  | ca 45        | ca 55        | ca 55        |
| Surface of DHW-heat exchanger                 | m <sup>2</sup> 5,5                                       | 5,5          | 8            | 8            |
| Surface of solar heat exchanger upper/lower   | m <sup>2</sup> 2,4/2,0                                   | 3,0/2,0      | 3,7/2,5      | 4,0/2,7      |
| Capacity solar heat exchanger upper/lower     | litre 11,0/7,6   | 14,0/11,0    | 24,3/16,8    | 26,5/17,6    |
| Insulation                                    | 100 mm PU soft foam with 1 mm PS-cover in white RAL 9010 |              |              |              |

### Performance (tank fully loaded @ 65 °C/ 70 °C/hot water 45°C/cold supply 10°C

#### Flow rate DHW

|  |                    |      |      |                          |                          |
|--|--------------------|------|------|--------------------------|--------------------------|
| Flow rate 10 l/min buffer loaded           | litre              | 560  | 595  | 780 (flow rate 25 l/min) | 860 (flow rate 25 l/min) |
| Flow rate 20 l/min buffer loaded           | litre              | 510  | 535  | 520 (flow rate 40 l/min) | 572 (flow rate 40 l/min) |
| Flow rate 10 l/min buffer partially loaded | litre              | 360  | 375  | 345 (flow rate 25 l/min) | 380 (flow rate 25 l/min) |
| Flow rate 20 l/min buffer partially loaded | litre              |      |      | 438 (flow rate 20 l/min) | 485 (flow rate 20 l/min) |
| Max domestic throughput buffer loaded      | l/h                | 1500 | 1950 | 2880                     | 3180                     |
| Aux boiler output                          | kW                 | 65   | 80   | 117                      | 129                      |
| Flow rate                                  | m <sup>3</sup> /hr | 3,3  | 3,8  | 4,2                      | 4,5                      |
| Buffer partially loaded                    | l/hr               | 930  | 1200 | 1280                     | 1410                     |
| Aux boiler output                          | kW                 | 40   | 50   | 52                       | 57                       |
| Flow rate                                  | m <sup>3</sup> /hr | 1,7  | 1,9  | 1,3                      | 2,5                      |
| Nominal load NL (DIN 4708)                 | ca                 | 3,2  | 4,0  | 4,5                      | 5,1                      |

#### Dimensions

|                                |    |    |                   |                  |                   |                    |
|--------------------------------|----|----|-------------------|------------------|-------------------|--------------------|
| Diameter with insulation       | D  | mm | 990               | 1050             | 1200              | 1400               |
| Diameter without insulation    | d  | mm | 790               | 850              | 1000              | 1200               |
| Height cold water              | E  | mm | 157               | 165              | 200               | 250                |
| Height hot water               | F  | mm | 1797              | 1775             | 1880              | 1770               |
| Height with insulation         | H  | mm | 2050              | 2020             | 2200              | 2150               |
| Tilting dimension              | W  | mm | 2050              | 2020             | 2220              | 2180               |
| Height auxiliary boiler inlet  | K  | mm | 1962(1385) [1345] | 1937(1385)[1345] | 2125(1420) [1390] | 2065 (1435) [1380] |
| Height auxiliary boiler return | L  | mm | 965 (282)         | 965 (280)        | 1030              | 1020               |
| Height solar flow              | M  | mm | 832 (1672)        | 930(1640)        | 935(1615)         | 935(1560)          |
| Height solar return            | N  | mm | 282(1122)         | 280(1090)        | 350(1210)         | 395(1200)          |
| Height plug electric heater    | R  | mm | 977               | 980              | 990               | 990                |
| Height heating circuit flow    | U  | mm | 1425              | 1425             | 1510              | 1500               |
| Height heating circuit return  | V  | mm | 702               | 700              | 765               | 755                |
| Sensor socket 1                | X1 | mm | 1447              | 1450             | 1530              | 1475               |
| Sensor socket 2                | X2 | mm | 1197              | 1180             | 1285              | 1275               |
| Sensor socket 3                | X3 | mm | 1042              | 1010             | 1105              | 1095               |
| Sensor socket 4                | X4 | mm | 357               | 360              | 425               | 470                |

#### Connections

|                             |       |     |      |      |      |      |
|-----------------------------|-------|-----|------|------|------|------|
| Cold/ hot water             | 1/2   | Rp  | 1    | 1    | 1    | 1    |
| Heating circuit flow/return | 4/5   | R   | 1    | 1    | 2    | 2    |
| Aux boiler flow/return      | 10/11 | R   | 1    | 1    | 2    | 2    |
| Solar flow/return           | 6/7   | Rp  | 1    | 1    | 1    | 1    |
| Plug for electric heater    | 12    | Rp  | 6/4  | 6/4  | 6/4  | 6/4  |
| Sensor socket               | 15    | Dia | 12,5 | 12,5 | 12,5 | 12,5 |
| Drain                       | (5)   | R   | 1    | 1    | 2    | 2    |
| <b>Weight (empty)</b>       | kg    | ca  | 240  | 280  | 385  | 470  |

R = male thread (inch), Rp = female thread (inch)