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**Installation and Operating Instructions**  
Fresh-water, combined and buffer storage tanks

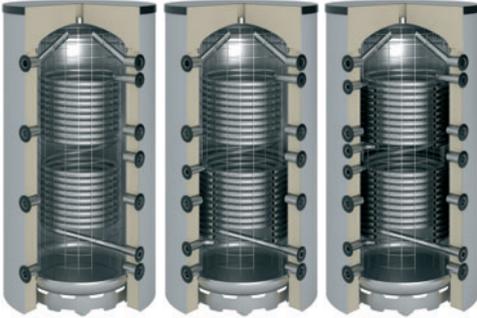
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**Product no. of the installation and operating instructions: 10165 –  
Revision status 01/2022**

All previous installation and operating instructions  
lose their validity with the release of this version.  
Alterations, mistakes and errors reserved.



## Fresh-water storage tanks



### Fresh-water storage tanks

150 – 500 litres, page 38

800 – 1,500 litres, page 39

2,250 – 5,000 litres, page 40



### Built-under fresh-water storage tanks

Vertical: 80 – 200 litres, page 41

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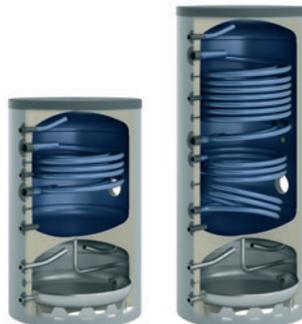


## Storage tanks for heating and cooling



### Fresh-water combination storage tanks

300 – 500 litres, page 50



### Heat pump combination tanks

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### Buffer storage tanks for cold and heat storage

200 – 500 litres, page 51

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## Standard storage tanks



### Combined storage tanks

500 litres, page 44

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### Buffer storage tanks

150 – 500 litres, page 35

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2,250 – 5,000 litres, page 37



### Horizontal buffer storage tank

120 – 500 litres, page 42

## 2 Notes on safety and use

### 2.1 Documentation

This installation and operation manual is absolutely necessary to read before commissioning and use of the storage tank!

It is part of the scope of delivery, has to be handed over to the user and should always be kept near the place where the storage tank is located.



We accept no liability for any damage caused by failure to observe these instructions.



Technical data subject to change without notice.  
No liability is accepted for printing errors.

### 2.2 Regulations

The relevant provisions of DIN, DIN EN, DVGW, VDI, TRF and VDE standards as well as all local and country-specific regulations, directives and standards for heating and water heating systems as well as for drinking water installations must be complied with.

If any specifications in this manual are in contradiction to the country-specific provisions, the latter are preferable.

### 2.3 Work on the storage tank

Installation and commissioning as well as maintenance and repairs must be carried out by authorised specialists (heating contractor / contract installation company). The high-efficiency insulation of storage tanks of up to 1,500 litres is made of vacuum panels embedded in a PU foam jacket.

The PU foam must not be sawed at, pierced or cut into as otherwise the subjacent vacuum panel can be damaged.



Vacuum panels have a core that is wrapped in foil and made of grey silicate. The silicate is harmless to health, not ecotoxic and can be disposed of in your household waste. If, due to external force, silicate may leak, we recommend the use of gloves and a dust mask despite the silicate being harmless.

### 2.4 Place of installation

The storage tanks may only be installed in frost-protected areas. If there is the risk of frost, the tank as well as all water-bearing fittings and connection pipes have to be drained.

The location for installation must be accessible for maintenance and repairs, and it must be ensured that the ground is level with a sufficient load capacity.

Refer to the manufacturers' documents for distances to firing installation systems.

OEG fresh-water, combined and buffer storage tanks are used for heating, storage and supply of heating water (acc. to VDI 2035) to or in the desired temperature in closed systems.

Fresh-water and combined storage tanks are also used for indirect heating of drinking water.

Optionally, the storage tanks can be equipped with screw-in immersion heaters of different makes and performances. They have to fulfill the following requirements:

- suitability for use in heating and DHW systems
- a length suitable for the respective storage tank diameter
- German TÜV- or respectively VDE-tested version

The installation and electrical connection of the immersion heaters must only be carried out by qualified technical personnel and in accordance with the installation instructions of the manufacturer.

Screw-in immersion heaters are subject to the warranty conditions of the manufacturer.

Reverse+ buffer storage tanks can be used for space cooling and space heating. The insulation of the tanks is designed to prevent condensation under certain boundary conditions. The permissible temperatures as well as the max. rel. air humidity specified in the technical data (see chapter 7) are mandatory. Unused ports as well as pipework and extensions must be insulated impermeably against condensation and in sufficient thickness.

With the seasonal changeover from cooling to heating operation, the storage tank should be inspected for possible moisture below the plastic lid. During heating operation the lid should be lifted for a few days, if necessary, in order to dry the insulation.

## Intended use

2.5

## Installation / Commissioning

3

All storage tanks may only be used in closed systems. All connections must be pressure-resistant. Connections that are not required must be sealed. In order to minimise heat losses, all pipes should be insulated.

The storage tank must be installed in a way that it can be drained without disassembly.



If a smooth-pipe heat exchanger is not required, it has to be sealed to prevent the ingress of oxygen. Otherwise, due to the formation of condensing water in conjunction with oxygen, this might lead to corrosion.



The smooth-pipe heat exchangers must not be shut off on both ends if filled because overpressure might otherwise occur.

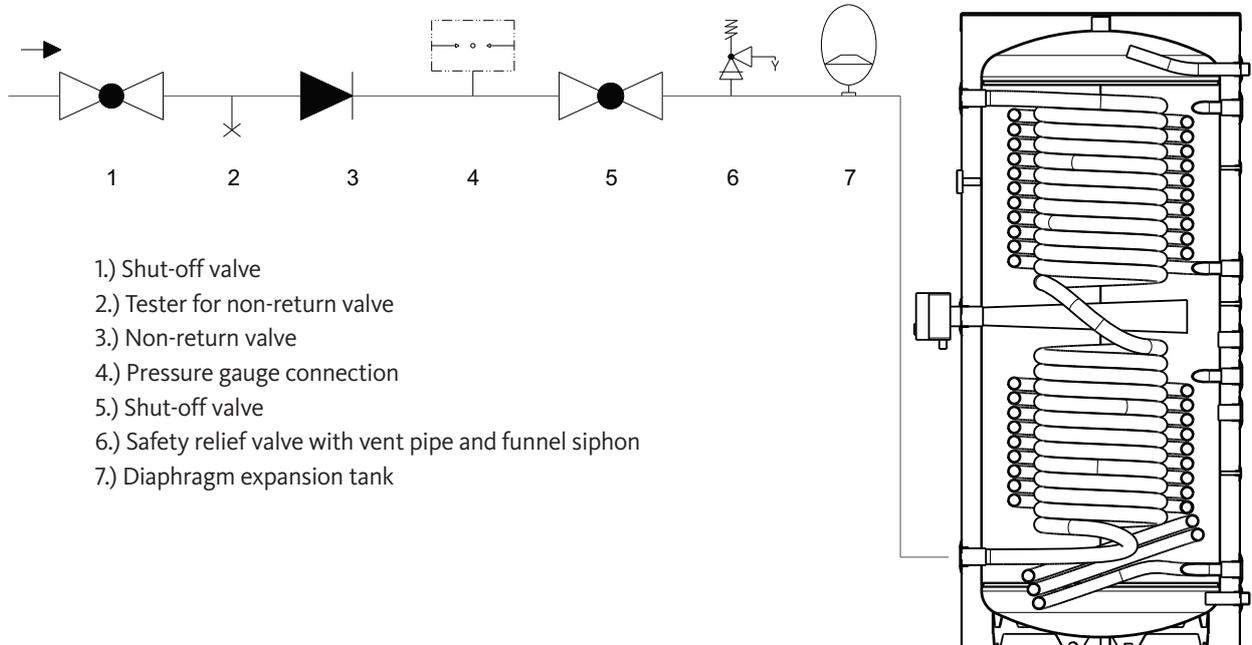
## Connection

3.1

The valid standards and regulations have to be complied with. The cold water connection must comply with DIN 1988 / DIN EN 1717 and DIN 4753-1.



In areas with a water hardness of over 20° dH we recommend the use of softening units or the installation of flush taps in combination with fresh-water storage tanks in order to facilitate the cleaning of the domestic hot water heat exchanger.



- 1.) Shut-off valve
- 2.) Tester for non-return valve
- 3.) Non-return valve
- 4.) Pressure gauge connection
- 5.) Shut-off valve
- 6.) Safety relief valve with vent pipe and funnel siphon
- 7.) Diaphragm expansion tank

According to technical rules, an appropriate electrical separation of the conductive connection between the different materials has to be provided for mixed installations.

When using fast-closing shut-off and water-tapping valves (solenoid valves, ball valves, single-lever mixers) for the installation, it might come to short-term pressure shocks in DHW installations becoming noticeable in the form of disturbing noises and eventually leading to wear and break of pipes and storage tanks. When using such components, appropriate water hammer dampers are to be provided. We assume no liability for damages caused by pressure shocks and water hammers.

Commissioning the storage tank is done in the following steps:

- flushing storage tank and all pipes
- filling storage tank until operating pressure is reached (open tapping points for the potable water for this until the water runs out in full stream)
- open the safety relief valve
- heating up the storage tank after filling is completed



All pre-assembled connections must be checked for tightness before commissioning. After the initial heating up, all connections must be rechecked for correct seating and retightened if required.



For fresh-water and combined storage tanks, it is important to fill the potable water side first.



Open vent valve on the heating water side.



The pressure of the drinking water side must always be higher than the pressure of the heating water.



For an optimal insulating effect, there must not be any condensing humidity within the insulation. A damp insulation can be dried by raising the upper cover of the storage tank temporarily in warm-up mode.



Draining of fresh-water and combined storage tanks is performed in reverse order to commissioning. Before maintaining the potable water side, the heating water side must be made pressureless first.

The potable water is drained after closing the shut-off valve in the cold water supply line via the drain valve of the safety valve combination while simultaneously opening all hot water valves of the connected consumer taps.

When commissioning, and at least once a year, you must check the correct operation of the safety valve. If the safety is dripping constantly, this is probably caused by contamination, the pressure in the water pipe exceeds the permitted value or the safety valve is defective. If the pressure in the water pipe exceeds the permitted value, a pressure reducer has to be installed.



During the heating, expansion water visibly leaks from the safety valve. It must not be closed!

## 4.3

## Corrosion protection

All combined and heat pump combination storage tanks are enamelled on the potable water side in accordance with DIN 4753-3 and are supplied including a pre-assembled magnesium protective anode. According to DIN 4753-6, magnesium protective anodes must be checked yearly and replaced every two years.

Optionally, maintenance-free impressed-current anodes of different makes can be retrofitted. It is of utmost importance that all magnesium protective anodes integrated in the storage tank are removed to prevent a disruption or malfunction of the impressed-current anode. The impressed-current anodes may only be connected by qualified personnel and according to the installation instructions of the manufacturer. The impressed-current anodes are subject to the warranty conditions of the manufacturer.

Fresh-water storage tanks are equipped with a corrugated stainless steel pipe (1.4404) on the potable water side and require no further measures regarding the protection against corrosion. On the heating water side, no further measures have to be taken regarding the protection against corrosion due to the oxygen-free water (acc. to VDI 2035).

Reverse+ storage tanks are externally protected against corrosion by a zinc phosphate coating. This paintwork provides a good protection against occasional condensation water. This coating, however, is definitely unsuitable for permanently stagnant water. Reverse+ storage tanks must be regularly inspected for condensation and pools of water. Particularly during cooling operation all pipe connections, unused ports as well as the areas around the lifting lugs need to be inspected for moisture and, if required, be dried and insulated again.

## 4.4

## Flanged aperture

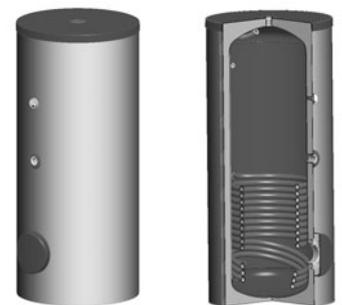
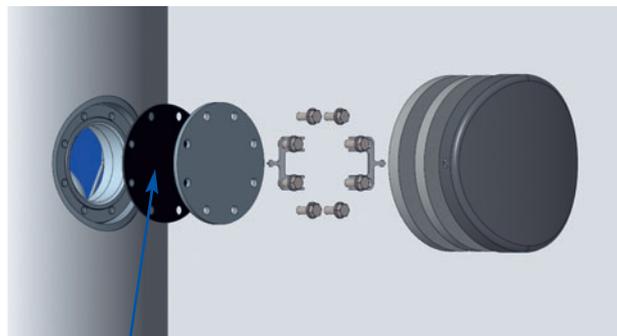
If storage tanks are fitted with service hatches, the flange seal has to be checked in regular intervals. A yearly interval is recommended.



After opening the flange, a new seal must be installed.



The nuts have to be tightened by hand first and then fastened diagonally with a torque between 18 and 22 Nm.



Art. 516 005 211  
Storage tank flange seal EPDM  
for service hatch

Required cleaning intervals are different depending on the water quality and the temperature of the storage tank. A yearly interval is recommended.



With a drinking water hardness of over 20° dH, a yearly cleaning interval is a requirement for asserting any warranty claims.

Storage tanks with enamelled potable water vessels are cleaned through the flanged aperture. The enamelled internal surface prevents limestone formation as far as possible and allows for a quick cleaning of loose lime deposits by means of a sharp water jet. Incrustations may only be crushed with a wooden stick before the flushing out. Sharp and/or metal objects must not be used for cleaning as there is the risk of damaging the tank or the enamel coating.

The cleaning of the drinking water heat exchanger in fresh-water storage pipes is done by rinsing with a suitable descaling agent (e.g. citric acid). OEG offers special rinsing pumps for such tasks.



After the cleaning, the connections have to be checked for tightness again before and after the reheating and they have to be retightened if necessary. We assume no liability for damages caused by water.

### Magnesium protection anodes

|  |  |  |  |
|--|---|--|--|
|  | R1 1/4" x 500, Ø 33   | R1 1/4" x 700, Ø 33  | M8 x 500, Ø 33   |
| <b>Combined storage tanks</b>              |   |  |  |
| 500  |   |  | 517 807 340, 517 807 380, 516 005 212  |
| 800  |   |  | 517 807 340, 517 807 380, 516 005 212  |
| 1000                                       |   |  | 517 807 340, 517 807 380, 516 005 212  |
| 1500                                       |   |  | 517 807 340, 517 807 380, 516 005 212  |
|  |   |  | 517 807 340, 517 807 380, 516 005 212  |
| <b>Heat pump combination storage tanks</b> |   |  |  |
| 300  | 517 807 400   |  |  |
| 400  |   | 517 807 402  |  |
| 500  |   | 517 807 402  | 517 807 340, 517 807 380, 516 005 209  |

517 807 380 Accessories  
Assembly kit for insulated  
installation of a magnesium anode



516 005 209  
Gasket for service hatch



516 005 212  
Set of gaskets for combined  
storage tanks



### Impressed current anode sets

#### For combined storage tanks 500 - 1,500 litres

CORREX® impressed current anode set  
up to a tank capacity of 300 litres  
and max. 2 heat exchangers  
Art. No. 517 807 730



#### For heat pump combination storage tanks 300 - 500 litres

CORREX® impressed current anode set  
up to a tank capacity of 500 litres and  
max. 2 heat exchangers  
Art. No. 517 807 700



OEG GmbH grants a warranty on parts and products supplied by OEG based on their general terms and conditions.

Prerequisite for any warranty claims on OEG storage tanks is the compliance with the following conditions:

- Checking the scope of delivery and the state of the delivered items.
- In case of doubt, immediate consultation with the supplier and/or OEG
- Frostproof installation
- Operation only in closed systems
- Compliance with the maximum permissible temperatures and pressures (see type plate)
- Correct installation
- Regular tightness control of the storage tank as well as all connections
- Annual cleaning if the drinking water hardness is above 20° dH
- Annual inspection of the magnesium protective anode and its replacement every two years if the drinking water tanks are enamelled.

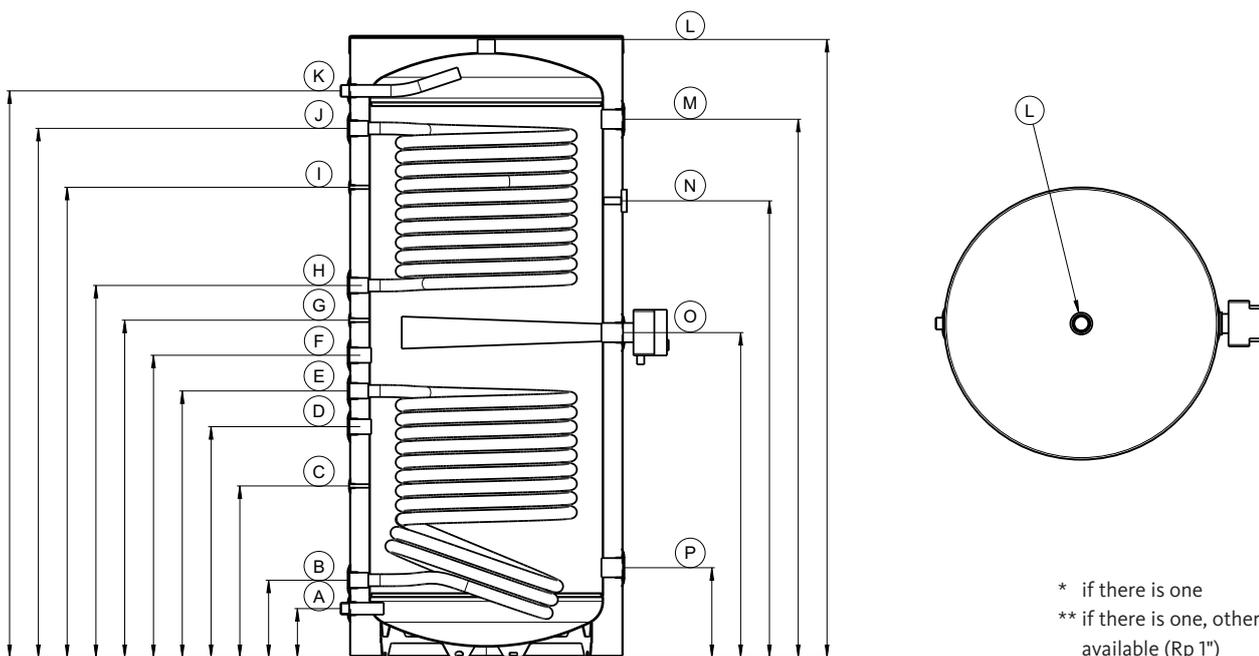
#### Disposal of packaging

Transport and packaging material are reintroduced to the recycling cycles by the installation company via local waste disposal and recycling facilities.

#### Disposal and recycling of products after final decommissioning

The components and operating materials of OEG storage tanks must not be disposed of with domestic waste. They have to be reintroduced to the recycling cycles in compliance with the local waste disposal and recycling facilities. If you have any questions regarding the individual tank components, contact [info@oeg.net](mailto:info@oeg.net) or the OEG hotline with the telephone number 00 800 / 63 43 66 24.

| Buffer storage tanks without, with one (-1) or with two (-2) smooth-pipe heat exchangers |                         | 150 / 150-1 / 150-2 | 200 / 200-1 / 200-2 | 300 / 300-1 / 300-2 | 400 / 400-1 / 400-2 | 500 / 500-1 / 500-2 |
|--|-------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Real volume according to EN 12897  | [l]                     | 158 / 157 / 156     | 206 / 203 / 202     | 300 / 297 / 296     | 419 / 415 / 412     | 516 / 512 / 509     |
| Fire protection class of insulation according to DIN 4102-1                              | [-]                     | B2                  | B2                  | B2                  | B2                  | B2                  |
| Total height including insulation  | [mm]                    | 1,020               | 1,265               | 1,750               | 1,725               | 1,770               |
| Diameter without insulation  | [mm]                    | 500                 | 500                 | 500                 | 600                 | 650                 |
| Diameter with insulation   | [mm]                    | 610                 | 610                 | 610                 | 710                 | 760                 |
| Tilt height  | [mm]                    | 1,170               | 1,375               | 1,830               | 1,865               | 1,925               |
| Weight   | [kg]                    | 48 / 60 / 70        | 60 / 77 / 87        | 71 / 88 / 100       | 88 / 119 / 145      | 96 / 127 / 153      |
| Energy efficiency class according to EU regulation no. 812 / 2013                        | [-]                     | A+                  | A+                  | A+                  | A+                  | A+                  |
| Standing loss acc. to EN 12897   | [W]                     | 28                  | 31                  | 36                  | 40                  | 43                  |
| Storage tank pmax / tmax   | [bar] / [°C]            | 3 / 95              | 3 / 95              | 3 / 95              | 3 / 95              | 3 / 95              |
| Smooth-pipe heat exchanger* bottom surface / volume                                      | [m <sup>2</sup> ] / [l] | 0.77 / 5            | 1.15 / 7.5          | 1.15 / 7.5          | 1.88 / 12.3         | 1.88 / 12.4         |
| Smooth-pipe heat exchanger* top surface / volume   | [m <sup>2</sup> ] / [l] | 0.63 / 4.2          | 0.63 / 4.2          | 0.77 / 5            | 1.73 / 11.3         | 1.74 / 11.4         |
| Smooth-pipe heat exchanger* pmax / tmax  | [bar] / [°C]            | 10 / 130            | 10 / 130            | 10 / 130            | 10 / 130            | 10 / 130            |
| Return heat generator (R 1")   | A [mm]                  | 132                 | 132                 | 132                 | 130                 | 137                 |
| Return smooth-pipe heat exchanger ** bottom (Rp 1")                                      | B [mm]                  | 207                 | 219                 | 222                 | 210                 | 217                 |
| Sensor sleeve (Ø 6 mm)   | C [mm]                  | 277                 | 415                 | 415                 | 474                 | 481                 |
| Freely available (Rp 1")   | D [mm]                  | -                   | -                   | -                   | 640                 | 647                 |
| Flow smooth-pipe heat exchanger** bottom (Rp 1")   | E [mm]                  | 468                 | 619                 | 622                 | 740                 | 747                 |
| Freely available (Rp 1")   | F [mm]                  | -                   | -                   | -                   | 840                 | 847                 |
| Sensor sleeve (Ø 6 mm)   | G [mm]                  | -                   | -                   | -                   | 932                 | 945                 |
| Return smooth-pipe heat exchanger** top (Rp 1")  | H [mm]                  | 542                 | 772                 | 1,217               | 1,025               | 1,042               |
| Sensor sleeve (Ø 6 mm)   | I [mm]                  | 682                 | 878                 | 1,347               | 1,265               | 1,317               |
| Flow smooth-pipe heat exchanger** top (Rp 1")  | J [mm]                  | 752                 | 982                 | 1,487               | 1,465               | 1,482               |
| Flow heat generator (R 1")   | K [mm]                  | -                   | -                   | -                   | 1,565               | 1,587               |
| Flow heat exchanger (R 1") / ventilation (Rp 1¼")  | L [mm]                  | 1,019 / -           | 1,264 / -           | 1,749 / -           | - / 1,695           | - / 1,731           |
| Freely available (Rp 1½")  | M [mm]                  | 792                 | 1,032               | 1,517               | 1,485               | 1,508               |
| Thermometer (Ø 9 mm)   | N [mm]                  | 682                 | 910                 | 1,423               | 1,265               | 1,279               |
| Heating element (Rp 1½")   | O [mm]                  | 500                 | 689                 | 1,145               | 895                 | 910                 |
| Freely available (Rp 1½")  | P [mm]                  | 242                 | 242                 | 242                 | 245                 | 252                 |



\* if there is one  
 \*\* if there is one, otherwise freely available (Rp 1")

Illustration shows the maximum equipment.

## Buffer storage tanks 800 – 1,500

| Buffer storage tanks without, with one (-1) or two (-2) smooth-pipe heat exchangers |                         | 800 / 800-1 / 800-2 | 1,000 / 1,000-1 / 1,000-2 | 1,500 / 1,500-1 / 1,500-2 |
|---|-------------------------|---------------------|---------------------------|---------------------------|
| Real volume according to EN 12897<br>1.467  | [l]                     | 804 / 800 / 795     | 999 / 993 / 988           | 1.480 / 1.473 /           |
| Fire protection class of insulation according to DIN 4102-1                         | [-]                     | B2                  | B2                        | B2                        |
| Total height including insulation   | [mm]                    | 1,930               | 2,350                     | 2,210                     |
| Diameter without insulation   | [mm]                    | 790                 | 790                       | 1,000                     |
| Diameter with insulation  | [mm]                    | 1,015               | 1015                      | 1,315                     |
| Tilt height   | [mm]                    | 1,900               | 2,280                     | 2,190                     |
| Weight  | [kg]                    | 171 / 211 / 244     | 243 / 293 / 333           | 232 / 300 / 343           |
| Heat retaining loss according to EN 12897   | [W]                     | 51                  | 55                        | 63                        |
| Storage tank pmax / tmax  | [bar] / [°C]            | 3 / 95              | 3 / 95                    | 3 / 95                    |
| Smooth-pipe heat exchanger* bottom surface / volume                                 | [m <sup>2</sup> ] / [l] | 2.6 / 17            | 3.3 / 21.3                | 4.5 / 29.7                |
| Smooth-pipe heat exchanger* top surface / volume                                    | [m <sup>2</sup> ] / [l] | 2.2 / 14.2          | 2.6 / 17                  | 2.8 / 18.6                |
| Smooth-pipe heat exchanger* pmax / tmax   | [bar] / [°C]            | 10 / 130            | 10 / 130                  | 10 / 130                  |
| Return heat generator (Rp 1½")  | A [mm]                  | 255                 | 255                       | 312                       |
| Return smooth-pipe heat exchanger* bottom (Rp 1")                                   | B [mm]                  | 413                 | 363                       | 470                       |
| Freely available (Rp 1½")   | C [mm]                  | 694                 | 832                       | 804                       |
| Flow smooth-pipe heat exchanger* bottom (Rp 1")                                     | D [mm]                  | 893                 | 1,063                     | 1,110                     |
| Return smooth-pipe heat exchanger* top (Rp 1")                                      | E [mm]                  | 1,025               | 1,293                     | 1,250                     |
| Freely available (Rp 1½")   | F [mm]                  | 1,133               | 1,409                     | 1,358                     |
| Flow smooth-pipe heat exchanger* top (Rp 1")  | G [mm]                  | 1,425               | 1,773                     | 1,650                     |
| Flow heat generator (Rp 1½")  | H [mm]                  | 1,572               | 1,985                     | 1,788                     |
| Ventilation (Rp 1¼")  | I [mm]                  | 1,833               | 2,246                     | 2,106                     |
| Freely available (Rp 1½")   | J [mm]                  | 1,572               | 1,985                     | 1,788                     |
| Freely available (Rp 1½")   | K [mm]                  | 1,133               | 1,409                     | 1,358                     |
| Heating element (Rp 1½")  | L [mm]                  | 963                 | 1,170                     | 1,170                     |
| Freely available (Rp 1½")   | M [mm]                  | 694                 | 832                       | 804                       |
| Freely available (Rp 1½")   | N [mm]                  |                     |                           |                           |

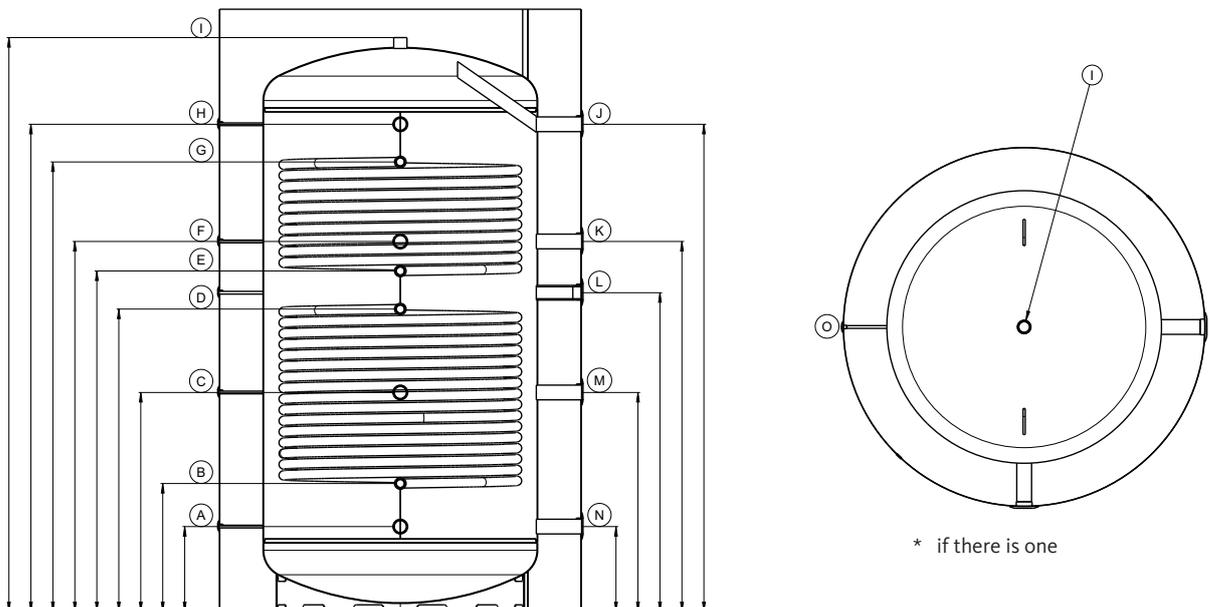


Illustration shows the maximum equipment.

\* if there is one

**Buffer storage tanks**  
**2,250 – 5,000**

7-3

| Buffer storage tanks without, with one (-1) or with 2 (-2) smooth-pipe heat exchangers |                         | 2,250 / 2,250-1 / 2,250-2 | 2,600 / 2,600-1 / 2,600-2 | 3,000 / 3,000-1 / 3,000-2 | 4,000 / 4,000-1 / 4,000-2 | 5,000 / 5,000-1 / 5,000-2 |
|--|-------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Real volume according  | [l]                     | 2,261 / 2,252 / 2,247     | 2,596 / 2,585 / 2,576     | 3,003 / 2,993 / 2,982     | 3,886 / 3,873 / 3,860     | 5,056 / 5,041 / 5,026     |
| Fire protection class of insulation according to DIN 4102-1                            | [-]                     | B2                        | B2                        | B2                        | B2                        | B2                        |
| Total height including insulation  | [mm]                    | 2,165                     | 2,440                     | 2,300                     | 3,000                     | 3,000                     |
| Diameter without insulation  | [mm]                    | 1,250                     | 1,250                     | 1,400                     | 1,400                     | 1,600                     |
| Diameter with insulation   | [mm]                    | 1,450                     | 1,450                     | 1,600                     | 1,600                     | 1,800                     |
| Tilt height  | [mm]                    | 2,165                     | 2,500                     | 2,405                     | 2,935                     | 3,100                     |
| Weight   | [kg]                    | 275 / 348 / 385           | 310 / 400 / 470           | 345 / 430 / 515           | 425 / 527 / 630           | 502 / 621 / 740           |
| Storage tank pmax / tmax   | [bar] / [°C]            | 3 / 95                    | 3 / 95                    | 3 / 95                    | 3 / 95                    | 3 / 95                    |
| Smooth-pipe heat exchanger* bottom surface / volume                                    | [m <sup>2</sup> ] / [l] | 4.9 / 32                  | 5.9 / 39                  | 5.5 / 36                  | 6.8 / 44                  | 7.8 / 51                  |
| Smooth-pipe heat exchanger* top surface / volume                                       | [m <sup>2</sup> ] / [l] | 2.5 / 16                  | 4.6 / 30                  | 5.5 / 36                  | 6.8 / 44                  | 7.8 / 51                  |
| Smooth-pipe heat exchanger* pmax / tmax  | [bar] / [°C]            | 10 / 130                  | 10 / 130                  | 10 / 130                  | 10 / 130                  | 10 / 130                  |
| Return heat generator (Rp 1½")   | A [mm]                  | 343                       | 339                       | 405                       | 465                       | 440                       |
| Return smooth-pipe heat exchanger ** bottom (Rp 1")                                    | B [mm]                  | 331                       | 369                       | - / 440 / 440             | 465                       | 440                       |
| Freely available (Rp 1½")  | C [mm]                  | 343                       | 339                       | 405                       | 465                       | 440                       |
| Freely available (Rp 1½")  | D [mm]                  | 1,033                     | 769                       | 1,109                     | 1,095                     | 1,070                     |
| Flow smooth-pipe heat exchanger** bottom (Rp 1")                                       | E [mm]                  | 891                       | 1,089                     | - / 960 / 960             | 1,095                     | 1,070                     |
| Freely available (Rp 1½")  | F [mm]                  | 1,048                     | 1,324                     | -                         | 1,690                     | 1,665                     |
| Heating element (Rp 1½") / Freely available (Rp 1½")                                   | G [mm]                  | 1,033 / -                 | - / 769                   | 1,109 / -                 | - / 1,095                 | - / 1,070                 |
| Freely available (Rp 1½")  | H [mm]                  | 1,348                     | 1,519                     | 1,341                     | 1,745                     | 1,720                     |
| Return smooth-pipe heat exchanger** top (Rp 1")  | I [mm]                  | 1,348                     | 1,439                     | - / - / 1,254             | 1,745                     | 1,720                     |
| Freely available (Rp 1½")  | J [mm]                  | 1,348                     | 1,519                     | 1,341                     | 1,745                     | 1,720                     |
| Flow heat generator (Rp 1½")   | K [mm]                  | 1,733                     | 2,019                     | 1,809                     | 2,375                     | 2,350                     |
| Flow smooth-pipe heat exchanger** top (Rp 1")  | L [mm]                  | 1,648                     | 1,989                     | - / - / 1,774             | 2,375                     | 2,350                     |
| Freely available (Rp 1½")  | M [mm]                  | 1,750                     | 2,024                     | -                         | 2,390                     | 2,365                     |
| Freely available (Rp 1½")  | N [mm]                  | 1,733                     | 2,019                     | 1,809                     | 2,375                     | 2,350                     |
| Ventilation (Rp 1¼")   | O [mm]                  | 2,112                     | 2,391                     | 2,245                     | 2,840                     | 2,828                     |
| Sensor sleeve (Ø 6 mm)   | P [mm]                  | various heights           |

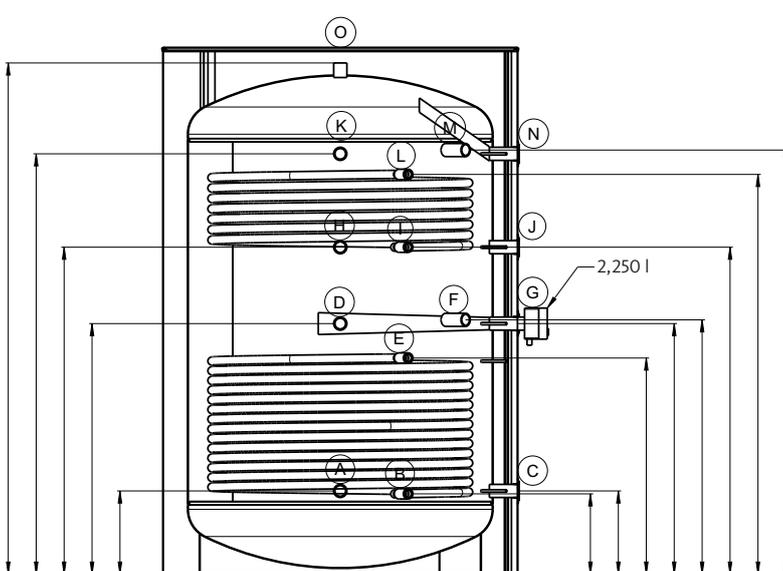
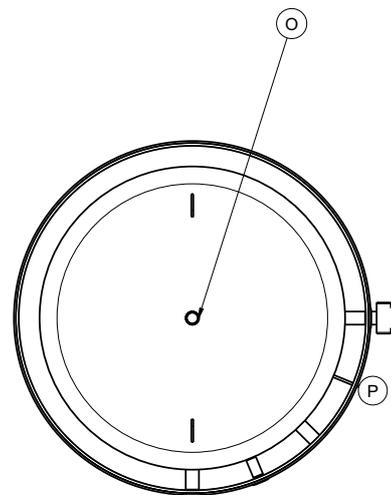


Illustration shows the maximum equipment.

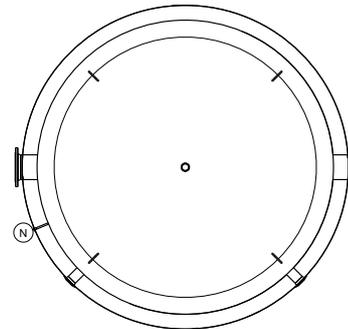
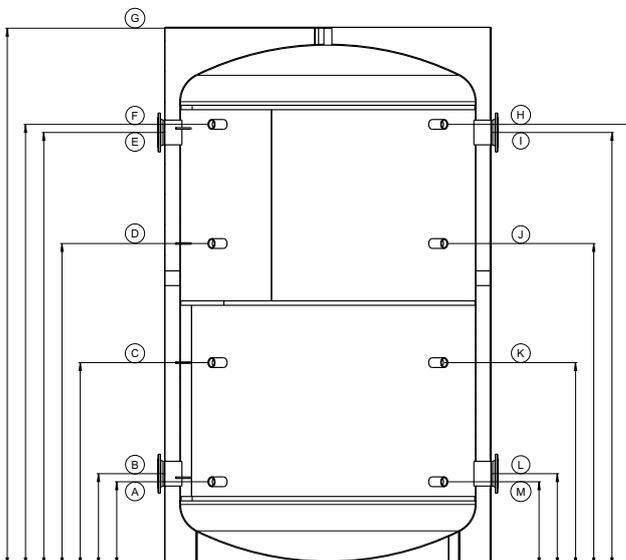


\* if there is one

\*\* if there is one, otherwise freely available (Rp 1")

## Buffer storage tank 10,000

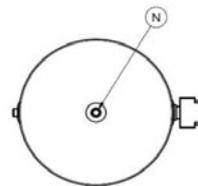
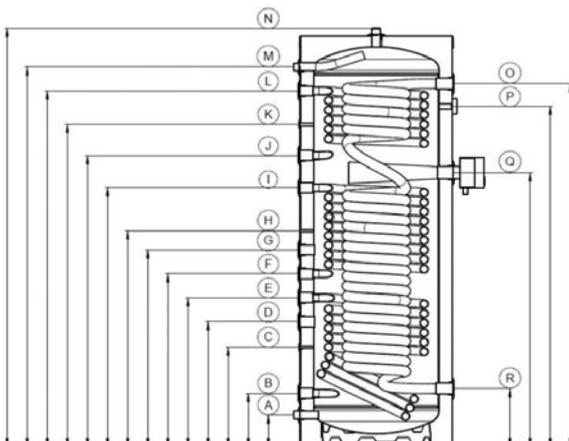
| Buffer storage tank without smooth-pipe heat exchanger      |            | 10,000          |
|---|------------|-----------------|
| Real volume according                                       | [l]        | 10,083          |
| Fire protection class of insulation according to DIN 4102-1 | [-]        | B2              |
| Total height including insulation                           | [mm]       | 3,660           |
| Diameter without insulation                                 | [mm]       | 2,000           |
| Diameter with insulation                                    | [mm]       | 2,200           |
| Tilt height   | [mm]       | 3,900           |
| Weight  | [kg]       | 1,010           |
| Storage tank pmax / tmax                                    | [bar]/[°C] | 3/95            |
| Return heat generator (Rp 2")                               | A [mm]     | 571             |
| Freely available (flange DN150 PN6)                         | B [mm]     | 626             |
| Freely available (Rp 2")                                    | C [mm]     | 1,381           |
| Freely available (Rp 2")                                    | D [mm]     | 2,191           |
| Freely available (flange DN150 PN6)                         | E [mm]     | 2,946           |
| Flow heat generator (Rp 2")                                 | F [mm]     | 3,001           |
| Ventilation (Rp 1 ½")                                       | G [mm]     | 3,655           |
| Freely available (Rp 2")                                    | H [mm]     | 3,001           |
| Freely available (flange DN150 PN6)                         | I [mm]     | 2,946           |
| Freely available (Rp 2")                                    | J [mm]     | 2,191           |
| Freely available (Rp 2")                                    | K [mm]     | 1,381           |
| Freely available (flange DN150 PN6)                         | L [mm]     | 626             |
| Freely available (Rp 2")                                    | M [mm]     | 571             |
| Sensor sleeves (Ø 6 mm)                                     | N [mm]     | various heights |



\* if there is one

\*\* if there is one, otherwise freely available (Rp 1")

| Fresh-water storage tanks without, with one (-1), with two (-2) or with three (-3) smooth-pipe heat exchangers |                         | 150 / 150-1 / 150-2 | 200 / 200-1 / 200-2 | 300 / 300-1 / 300-2 / 300-3 | 400 / 400-1 / 400-2 | 500 / 500-1 / 500-2 |
|--|-------------------------|---------------------|---------------------|-----------------------------|---------------------|---------------------|
| Real volume according to EN 12897  | [l]                     | 158 / 156 / 155     | 205 / 202 / 201     | 298 / 296 / 294 / 291       | 417 / 413 / 410     | 514 / 510 / 507     |
| Fire protection class of insulation according to DIN 4102-1  | [-]                     | B2                  | B2                  | B2                          | B2                  | B2                  |
| Total height including insulation  | [mm]                    | 1,020               | 1,265               | 1,750                       | 1,725               | 1,770               |
| Diameter without insulation  | [mm]                    | 500                 | 500                 | 500                         | 600                 | 650                 |
| Diameter with insulation   | [mm]                    | 610                 | 610                 | 610                         | 710                 | 760                 |
| Tilt height  | [mm]                    | 1,170               | 1,375               | 1,830                       | 1,865               | 1,925               |
| Weight   | [kg]                    | 53 / 65 / 75        | 53 / 85 / 95        | 81 / 98 / 110 / 138         | 103 / 134 / 160     | 111 / 142 / 168     |
| Energy efficiency class according to EU regulation no. 812/2013  | [-]                     | A+                  | A+                  | A+                          | A+                  | A+                  |
| Standing loss acc. to EN 12897   | [W]                     | 28                  | 31                  | 36                          | 40                  | 43                  |
| Output capacity 45 °C (storage tank 65 °C, cold water 10 °C, no reheating)                                     | [l]                     | 85                  | 115                 | 175                         | 230                 | 285                 |
| Performance factor NL following DIN 4708   | [-]                     | 1                   | 1,2                 | 1,6                         | 2                   | 3                   |
| Storage tank pmax / tmax   | [bar] / [°C]            | 3 / 95              | 3 / 95              | 3 / 95                      | 3 / 95              | 3 / 95              |
| DHW heat exchanger surface / volume  | [m <sup>2</sup> ] / [l] | 1.9 / 8.2           | 2.8 / 12.2          | 4.4 / 19.3                  | 6 / 27              | 6 / 27              |
| DHW heat exchanger pmax / tmax   | [bar] / [°C]            | 6 / 95              | 6 / 95              | 6 / 95                      | 6 / 95              | 6 / 95              |
| Smooth-pipe heat exchanger* bottom surface / volume  | [m <sup>2</sup> ] / [l] | 0.77 / 5            | 1.15 / 7.5          | 1.15 / 7.5                  | 1.88 / 12.3         | 1.88 / 12.4         |
| Smooth-pipe heat exchanger* middle surface / volume  | [m <sup>2</sup> ] / [l] | -                   | -                   | 1.15 / 7.5                  | -                   | -                   |
| Smooth-pipe heat exchanger* top surface / volume   | [m <sup>2</sup> ] / [l] | 0.63 / 4.2          | 0.63 / 4.2          | 0.77 / 5                    | 1.73 / 11.3         | 1.74 / 11.4         |
| Smooth-pipe heat exchanger* pmax / tmax  | [bar] / [°C]            | 10 / 130            | 10 / 130            | 10 / 130                    | 10 / 130            | 10 / 130            |
| Return heat generator (R 1")   | A [mm]                  | 132                 | 132                 | 132                         | 130                 | 137                 |
| Return smooth-pipe heat exchanger** bottom (Rp 1")   | B [mm]                  | 207                 | 219                 | 222                         | 210                 | 217                 |
| Sensor sleeve (Ø 6 mm)   | C [mm]                  | 277                 | 415                 | 415                         | 474                 | 481                 |
| Freely available (Rp 1")   | D [mm]                  | -                   | -                   | -                           | 640                 | 647                 |
| Flow smooth-pipe heat exchanger** bottom (Rp 1")   | E [mm]                  | 468                 | 619                 | 622                         | 740                 | 747                 |
| Return smooth-pipe heat exchanger* middle* (Rp 1")   | F [mm]                  | -                   | -                   | - / - / - / 722             | -                   | -                   |
| Freely available (Rp 1")   | G [mm]                  | -                   | -                   | -                           | 840                 | 847                 |
| Sensor sleeve (Ø 6 mm)   | H [mm]                  | -                   | -                   | -                           | 932                 | 945                 |
| Flow smooth-pipe heat exchanger* middle (Rp 1")  | I [mm]                  | -                   | -                   | - / - / - / 1,082           | -                   | -                   |
| Return smooth-pipe heat exchanger** top (Rp 1")  | J [mm]                  | 542                 | 772                 | 1,217                       | 1,025               | 1,042               |
| Sensor sleeve (Ø 6 mm)   | K [mm]                  | 682                 | 878                 | 1,347                       | 1,265               | 1,317               |
| Flow smooth-pipe heat exchanger** top (Rp 1")  | L [mm]                  | 752                 | 982                 | 1,487                       | 1,465               | 1,482               |
| Flow heat generator (R 1")   | M [mm]                  | -                   | -                   | -                           | 1,565               | 1,587               |
| Flow heat generator (R 1") / ventilation (Rp 1¼")  | N [mm]                  | 1,019 / -           | 1,264 / -           | 1,749 / -                   | - / 1,695           | - / 1,731           |
| Hot water connection (Rp 1¼")  | O [mm]                  | 792                 | 1,032               | 1,517                       | 1,485               | 1,508               |
| Thermometer (Ø 9 mm)   | P [mm]                  | 682                 | 910                 | 1,423                       | 1,265               | 1,279               |
| Heating element (Rp 1½")   | Q [mm]                  | 500                 | 689                 | 1,145                       | 895                 | 910                 |
| Cold water connection (Rp 1¼")   | R [mm]                  | 242                 | 242                 | 242                         | 245                 | 252                 |



- \* if there is one  
 \*\* if there is one, otherwise freely available (Rp 1")

Illustration shows the maximum equipment.



| Fresh-water storage tanks without, with one (-1) or with two (-2) smooth-pipe heat exchangers |              | 800 / 800-1 / 800-2 | 1,000 / 1,000-1 / 1,000-2 | 1,500 / 1,500-1 / 1,500-2 |
|---|--------------|---------------------|---------------------------|---------------------------|
| Real volume according to EN 12897   | [l]          | 801 / 796 / 792     | 996 / 990 / 985           | 1,477 / 1,470 / 1,464     |
| Fire protection class of insulation according to DIN 4102-1                                   | [-]          | B2                  | B2                        | B2                        |
| Total height including insulation   | [mm]         | 1,930               | 2,350                     | 2,210                     |
| Diameter without insulation   | [mm]         | 790                 | 790                       | 1,000                     |
| Diameter with insulation  | [mm]         | 1,015               | 1,015                     | 1,315                     |
| Tilt height   | [mm]         | 1,900               | 2,280                     | 2,190                     |
| Weight  | [kg]         | 192 / 232 / 265     | 265 / 315 / 355           | 275 / 322 / 365           |
| Standing loss acc. to EN 12897  | [W]          | 51                  | 55                        | 63                        |
| Output capacity 45°C (storage tanks 65°C, cold water 10°C, no reheating)                      | [l]          | 457                 | 571                       | 857                       |
| Performance factor NL following DIN 4708  | [-]          | 4.5                 | 6.4                       | 8.4                       |
| Storage tank pmax / tmax  | [bar] / [°C] | 3 / 95              | 3 / 95                    | 3 / 95                    |
| DHW heat exchanger surface / volume   | [m²] / [l]   | 8 / 34              | 8 / 34                    | 8 / 34                    |
| DHW heat exchanger pmax / tmax  | [bar] / [°C] | 6 / 95              | 6 / 95                    | 6 / 95                    |
| Smooth-pipe heat exchanger* bottom surface / volume   | [m²] / [l]   | 2.6 / 17            | 3.3 / 21.3                | 4.5 / 29.7                |
| Smooth-pipe heat exchanger* top surface / volume  | [m²] / [l]   | 2.2 / 14.2          | 2.6 / 17                  | 2.8 / 18.6                |
| Smooth-pipe heat exchanger* pmax / tmax   | [bar] / [°C] | 10 / 130            | 10 / 130                  | 10 / 130                  |
| Return heat generator (Rp 1½")  | A [mm]       | 255                 | 255                       | 312                       |
| Return smooth-pipe heat exchanger* bottom (Rp 1")   | B [mm]       | 413                 | 363                       | 470                       |
| Freely available (Rp 1½")   | C [mm]       | 694                 | 832                       | 804                       |
| Flow smooth-pipe heat exchanger* bottom (Rp 1")   | D [mm]       | 893                 | 1,063                     | 1,110                     |
| Return smooth-pipe heat exchanger* top (Rp 1")  | E [mm]       | 1,025               | 1,293                     | 1,250                     |
| Freely available (Rp 1½")   | F [mm]       | 1,133               | 1,409                     | 1,358                     |
| Flow smooth-pipe heat exchanger* top (Rp 1")  | G [mm]       | 1,425               | 1,773                     | 1,650                     |
| Flow heat generator (Rp 1½")  | H [mm]       | 1,572               | 1,985                     | 1,788                     |
| Ventilation (Rp 1¼")  | I [mm]       | 1,833               | 2,246                     | 2,106                     |
| Freely available (Rp 1½")   | J [mm]       | 1,572               | 1,985                     | 1,788                     |
| Hot water connection (Rp 1¼")   | K [mm]       | 1,462               | 1,875                     | 1,678                     |
| Freely available (Rp 1½")   | L [mm]       | 1,133               | 1,409                     | 1,358                     |
| Heating element (Rp 1½")  | M [mm]       | 963                 | 1,170                     | 1,170                     |
| Freely available (Rp 1½")   | N [mm]       | 694                 | 832                       | 804                       |
| Cold water connection (Rp 1¼")  | O [mm]       | 365                 | 498                       | 422                       |
| Freely available (Rp 1½")   | P [mm]       | 255 / -             | - / 255                   | - / 312                   |
| Sensor sleeve (Ø 6 mm)  | Q [mm]       | various heights     | various heights           | various heights           |

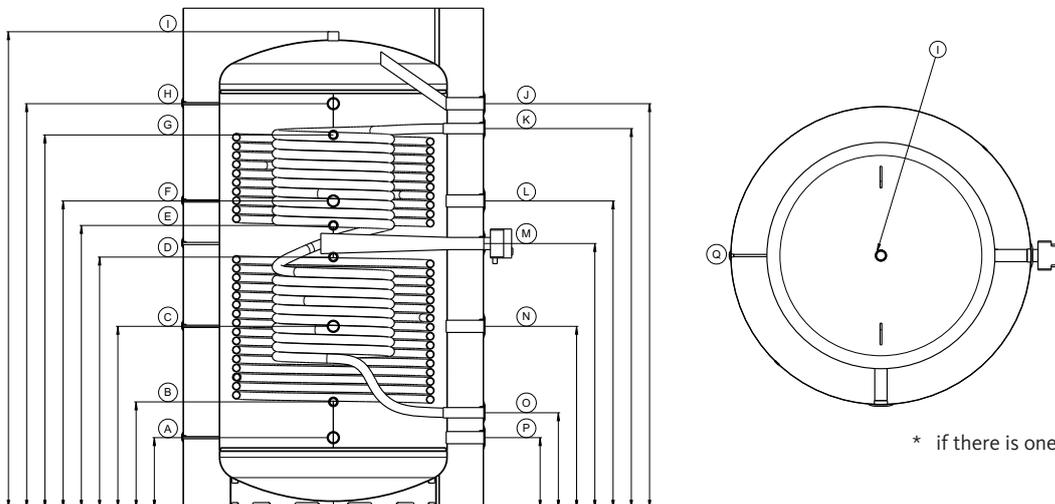


Illustration shows the maximum equipment.

| Fresh-water storage tanks without, with one (-1) or with two (-2) smooth-pipe heat exchangers |              | 2,250 / 2,250-1 / 2,250-2 | 2,600 / 2,600-1 / 2,600-2 | 3,000 / 3,000-1 / 3,000-2 | 4,000 / 4,000-1 / 4,000-2 | 5,000 / 5,000-1 / 5,000-2 |
|---|--------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Real volume according   | [l]          | 2,258 / 2,249 / 2,244     | 2,593 / 2,582 / 2,573     | 3,000 / 2,990 / 2,979     | 3,883 / 3,870 / 3,857     | 5,053 / 5,038 / 5,023     |
| Fire protection class of insulation according to DIN 4102-1                                   | [-]          | B2                        | B2                        | B2                        | B2                        | B2                        |
| Total height including insulation   | [mm]         | 2,165                     | 2,440                     | 2,300                     | 3,000                     | 3,000                     |
| Diameter without insulation   | [mm]         | 1,250                     | 1,250                     | 1,400                     | 1,400                     | 1,600                     |
| Diameter with insulation  | [mm]         | 1,450                     | 1,450                     | 1,600                     | 1,600                     | 1,800                     |
| Tilt height   | [mm]         | 2,165                     | 2,500                     | 2,405                     | 2,935                     | 3,100                     |
| Weight  | [kg]         | 341 / 378 / 415           | 340 / 430 / 500           | 375 / 460 / 545           | 454 / 557 / 660           | 532 / 651 / 770           |
| Output capacity 45 °C<br>(storage tank 65 °C, cold water 10 °C, no reheating)                 | [l]          | 1,142                     | 1,480                     | 1,714                     | 2,285                     | 2,857                     |
| Performance factor NL following DIN 4708  | [-]          | 10                        | 12                        | 15                        | 20                        | 25                        |
| Storage tank pmax / tmax  | [bar] / [°C] | 3 / 95                    | 3 / 95                    | 3 / 95                    | 3 / 95                    | 3 / 95                    |
| DHW heat exchanger surface / volume   | [m²] / [l]   | 9 / 39.5                  | 9 / 39.5                  | 9 / 39.5                  | 9 / 39.5                  | 9 / 39.5                  |
| DHW heat exchanger pmax / tmax  | [bar] / [°C] | 6 / 95                    | 6 / 95                    | 6 / 95                    | 6 / 95                    | 6 / 95                    |
| Smooth-pipe heat exchanger* bottom surface / volume   | [m²] / [l]   | 4.9 / 32                  | 5.9 / 39                  | 5.5 / 36                  | 6.8 / 44                  | 7.8 / 51                  |
| Smooth-pipe heat exchanger* top surface / volume  | [m²] / [l]   | 2.5 / 16                  | 4.6 / 30                  | 5.5 / 36                  | 6.8 / 44                  | 7.8 / 51                  |
| Smooth-pipe heat exchanger* pmax / tmax   | [bar] / [°C] | 10 / 130                  | 10 / 130                  | 10 / 130                  | 10 / 130                  | 10 / 130                  |
| Return heat generator (Rp 1½")  | A [mm]       | 343                       | 339                       | 405                       | 465                       | 440                       |
| Return smooth-pipe heat exchanger** bottom (Rp 1")  | B [mm]       | 331                       | 369                       | - / 440 / 440             | 465                       | 440                       |
| Freely available (Rp 1½")   | C [mm]       | 343                       | 339                       | 405                       | 465                       | 440                       |
| Freely available (Rp 1½")   | D [mm]       | 1,033                     | 769                       | 1,109                     | 1,095                     | 1,070                     |
| Flow smooth-pipe heat exchanger** bottom (Rp 1")  | E [mm]       | 891                       | 1,089                     | - / 960 / 960             | 1,095                     | 1,070                     |
| Cold water connection (Rp 1¼")  | F [mm]       | 1,048                     | 1,324                     | 1,109                     | 1,690                     | 1,665                     |
| Heating element (Rp 1½") / Freely available (Rp 1½")  | G [mm]       | 1,033 / -                 | - / 769                   | 1,109 / -                 | - / 1,095                 | - / 1,070                 |
| Freely available (Rp 1½")   | H [mm]       | 1,348                     | 1,519                     | 1,341                     | 1,745                     | 1,720                     |
| Return smooth-pipe heat exchanger** top (Rp 1")   | I [mm]       | 1,348                     | 1,439                     | - / - / 1,254             | 1,745                     | 1,720                     |
| Freely available (Rp 1½")   | J [mm]       | 1,348                     | 1,519                     | 1,341                     | 1,745                     | 1,720                     |
| Flow heat generator (Rp 1½")  | K [mm]       | 1,733                     | 2,019                     | 1,809                     | 2,375                     | 2,350                     |
| Flow smooth-pipe heat exchanger** top (Rp 1")   | L [mm]       | 1,648                     | 1,989                     | - / - / 1,774             | 2,375                     | 2,350                     |
| Hot water connection (Rp 1¼")   | M [mm]       | 1,750                     | 2,024                     | 1,809                     | 2,390                     | 2,365                     |
| Freely available (Rp 1½")   | N [mm]       | 1,733                     | 2,019                     | 1,809                     | 2,375                     | 2,350                     |
| Ventilation (Rp 1¼")  | O [mm]       | 2,112                     | 2,391                     | 2,245                     | 2,840                     | 2,828                     |
| Sensor sleeve (Ø 6 mm)  | P [mm]       | various heights           |

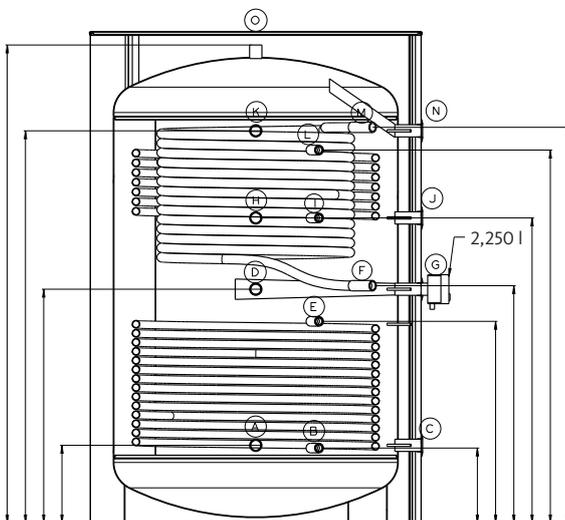
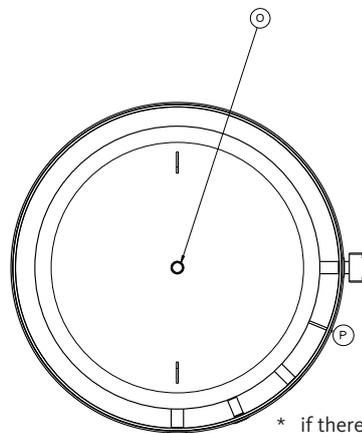


Illustration shows the maximum equipment.

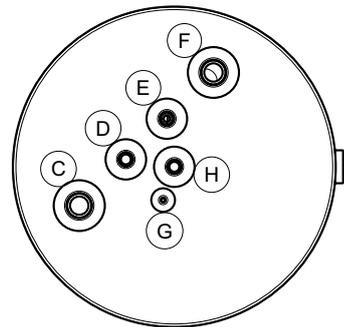
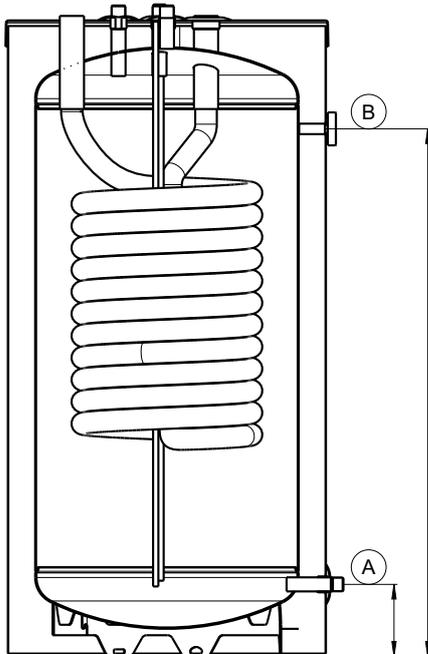


\* if there is one  
 \*\* if there is one, otherwise freely available (Rp 1")



### Built-under fresh-water storage tanks (vertical) 80 – 200

| Built-under fresh-water storage tanks (vertical)                            |                         | 80      | 120      | 150    | 200      |
|---|-------------------------|---------|----------|--------|----------|
| Real volume according to EN 12897   | [l]                     | 80      | 120      | 150    | 200      |
| Fire protection class of insulation according to DIN 4102-1                 | [-]                     | B2      | B2       | B2     | B2       |
| Total height including insulation   | [mm]                    | 620     | 830      | 985    | 1,245    |
| Diameter without insulation   | [mm]                    | 500     | 500      | 500    | 600      |
| Diameter with insulation  | [mm]                    | 610     | 610      | 610    | 710      |
| Tilt height   | [mm]                    | 850     | 950      | 1,130  | 1,350    |
| Weight  | [kg]                    | 35      | 45       | 55     | 65       |
| Energy efficiency class according to EU regulation no. 812/2013             | [-]                     | A+      | A+       | A+     | A+       |
| Standing loss acc. to EN 12897  | [W]                     | 23      | 26       | 28     | 31       |
| Output capacity 45°C<br>(storage tanks 65°C, cold water 10°C, no reheating) | [l]                     | 50      | 68       | 85     | 115      |
| Performance factor NL following DIN 4708                                    | [-]                     | 0.6     | 0.8      | 1      | 1.2      |
| Storage tank pmax / tmax  | [bar] / [°C]            | 3 / 95  | 3 / 95   | 3 / 95 | 3 / 95   |
| DHW heat exchanger surface / volume   | [m <sup>2</sup> ] / [l] | 1.4 / 6 | 2.5 / 11 | 3 / 14 | 3.1 / 14 |
| DHW heat exchanger pmax / tmax  | [bar] / [°C]            | 6 / 95  | 6 / 95   | 6 / 95 | 6 / 95   |
| Draining (R ¾")   | A [mm]                  | 137     | 137      | 137    | 137      |
| Thermometer (Ø 9 mm)  | B [mm]                  | 455     | 663      | 748    | 1,008    |
| Hot water connection (Rp 1¼")   | C [mm]                  | 600     | 808      | 964    | 1,224    |
| Flow heat generator (R ¾")  | D [mm]                  | 620     | 828      | 984    | 1,244    |
| Return heat generator (R ¾")  | E [mm]                  | 620     | 828      | 984    | 1,244    |
| Cold water connection (Rp 1¼")  | F [mm]                  | 600     | 808      | 964    | 1,224    |
| Sensor sleeve (Ø 6 mm)  | G [mm]                  | 589     | 797      | 954    | 1,213    |
| Ventilation (R ¾")  | H [mm]                  | 620     | 828      | 984    | 1,244    |

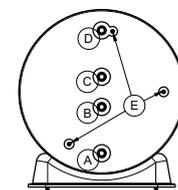
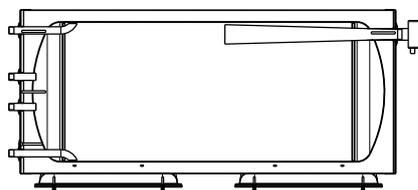
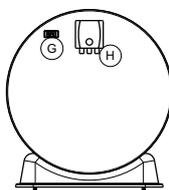
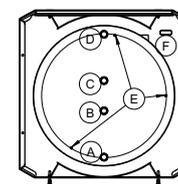
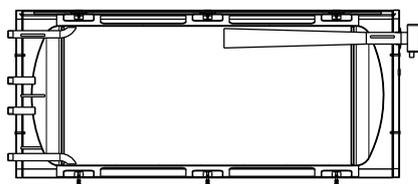
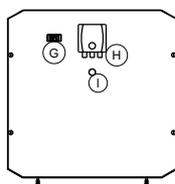


## Horizontal and built-under buffer storage tanks 120 – 500

7-9

| Horizontal and built-under buffer storage tanks              |              | 120    | 150    | 200    | 300    | 400    | 500    |
|--|--------------|--------|--------|--------|--------|--------|--------|
| Real volume according to EN 12897                            | [l]          | 117    | 158    | 208    | 302    | 457    | 500    |
| Fire protection class of insulation according to DIN 4102-1  | [-]          | B2     | B2     | B2     | B2     | B2     | B2     |
| Total height* including insulation                           | [mm]         | 700    | 700    | 700    | 700    | 850    | 850    |
| Width  | [mm]         | 610    | 610    | 610    | 610    | 760    | 760    |
| Length   | [mm]         | 785    | 995    | 1,260  | 1,750  | 1,600  | 1,730  |
| Weight   | [kg]         | 49     | 57     | 69     | 93     | 105    | 123    |
| Energy efficiency class according EU regulation no. 812/2013 | [-]          | A+     | A+     | A+     | A+     | A+     | A+     |
| Standing loss acc. to EN 12897                               | [W]          | 26     | 29     | 31     | 36     | 41     | 43     |
| Storage tank pmax / tmax                                     | [bar] / [°C] | 3 / 95 | 3 / 95 | 3 / 95 | 3 / 95 | 3 / 95 | 3 / 95 |

|  |        |
|--|--------|
| Return heat generator (R 1")                 | A [mm] |
| Freely available (R 1")                      | B [mm] |
| Freely available (R 1")                      | C [mm] |
| Flow heat generator (R 1")                   | D [mm] |
| Sensor sleeve** (Ø 6 mm)                     | E [mm] |
| Sensor cable feed-through (45x18 mm)         | F [mm] |
| Thermometer (Clip)                           | G [mm] |
| Heating element (Rp 1½")                     | H [mm] |
| Cable feed-through heating element (Ø 26 mm) | I [mm] |



\* feet adjustable by  $\pm 13$ mm

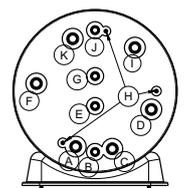
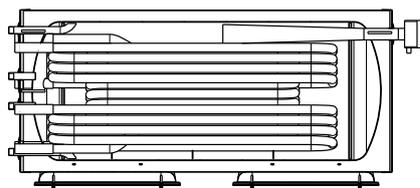
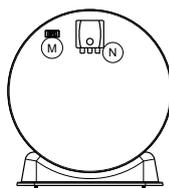
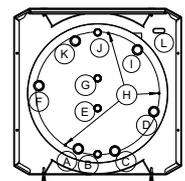
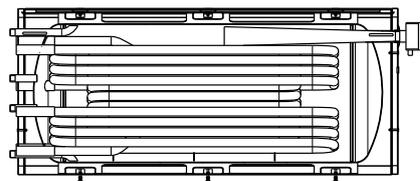
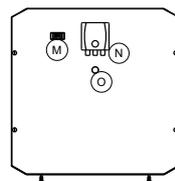
\*\* Caution: Install the temperature sensors before mounting the steel jacket.  
Use the sensor cable feed-through (F) for guiding the temperature sensors.



## Horizontal and built-under fresh-water storage tanks 120 – 500

| Horizontal and built-under fresh-water storage tanks without, with one (-1) or with two (-2) additional heat exchangers |              | 120 / 120-1 / 120-2 | 150 / 150-1 / 150-2 | 200 / 200-1 / 200-2 | 300 / 300-1 / 300-2 | 400 / 400-1 / 400-2 | 500 / 500-1 / 500-2 |
|---|--------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Real volume according to EN 12897   | [l]          | 117 / 116 / 115     | 157 / 156 / 155     | 206 / 205 / 204     | 301 / 300 / 298     | 455 / 454 / 452     | 498 / 496 / 494     |
| Fire protection class of insulation according to DIN 4102-1   | [-]          | B2                  | B2                  | B2                  | B2                  | B2                  | B2                  |
| Total height* including insulation  | [mm]         | 700                 | 700                 | 700                 | 700                 | 850                 | 850                 |
| Width   | [mm]         | 610                 | 610                 | 610                 | 610                 | 760                 | 760                 |
| Length  | [mm]         | 785                 | 995                 | 1,260               | 1,750               | 1,600               | 1,730               |
| Weight  | [kg]         | 55 / 60 / 65        | 65 / 72 / 79        | 79 / 87 / 96        | 103 / 111 / 120     | 123 / 136 / 150     | 141 / 154 / 167     |
| Energy efficiency class according to EU regulation no. 812/2013   | [-]          | A+                  | A+                  | A+                  | A+                  | A+                  | A+                  |
| Standing loss acc. to EN 12897  | [W]          | 26                  | 29                  | 31                  | 36                  | 41                  | 43                  |
| Output capacity 45°C (storage tanks 65°C, cold water 10°C, no reheating)  | [l]          | 70                  | 85                  | 115                 | 175                 | 230                 | 290                 |
| Performance factor NL following DIN 4708  | [-]          | 0.8                 | 1                   | 1.2                 | 1.6                 | 2                   | 3                   |
| Storage tank pmax / tmax  | [bar] / [°C] | 3 / 95              | 3 / 95              | 3 / 95              | 3 / 95              | 3 / 95              | 3 / 95              |
| DHW heat exchanger surface / volume   | [m²] / [l]   | 1.52 / 6.92         | 2.1 / 9.6           | 2.5 / 11            | 2.5 / 11            | 5.1 / 23            | 5.1 / 23            |
| DHW heat exchanger pmax / tmax  | [bar] / [°C] | 6 / 95              | 6 / 95              | 6 / 95              | 6 / 95              | 6 / 95              | 6 / 95              |
| Additional heat exchanger** bottom surface / volume   | [m²] / [l]   | 1 / 4.69            | 1.4 / 6.2           | 1.7 / 8             | 1.7 / 8             | 3 / 14              | 3 / 14              |
| Additional heat exchanger** top surface / volume  | [m²] / [l]   | 1 / 4.55            | 1.4 / 6.1           | 1.7 / 8             | 1.7 / 8             | 3 / 14              | 3 / 14              |
| Additional heat exchanger** pmax / tmax   | [bar] / [°C] | 6 / 95              | 6 / 95              | 6 / 95              | 6 / 95              | 6 / 95              | 6 / 95              |

|  |        |
|--|--------|
| Return additional heat exchanger bottom** (Rp 1¼") | A [mm] |
| Return heat generator (R 1")                       | B [mm] |
| Cold water connection (Rp 1¼")                     | C [mm] |
| Flow additional heat exchanger** bottom (Rp 1¼")   | D [mm] |
| Freely available (R 1")                            | E [mm] |
| Return additional heat exchanger** top (Rp 1¼")    | F [mm] |
| Freely available (R 1")                            | G [mm] |
| Sensor sleeve*** (Ø 6 mm)                          | H [mm] |
| Flow additional heat exchanger** topn (Rp 1¼")     | I [mm] |
| Flow heat generator (R 1")                         | J [mm] |
| Hot water connection (Rp 1¼")                      | K [mm] |
| Sensor cable feed-through (45x18 mm)               | L [mm] |
| Thermometer (clip)                                 | M [mm] |
| Heating element (Rp 1½")                           | N [mm] |
| cable feed-through heating element (Ø 26 mm)       | O [mm] |



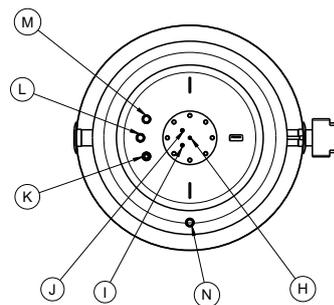
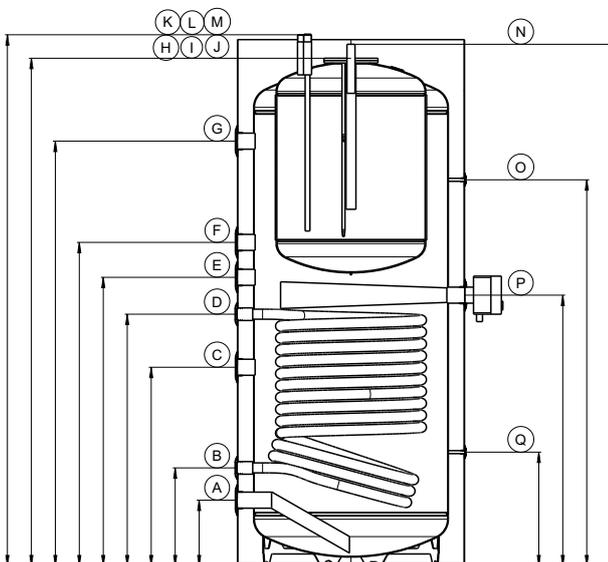
Illustrations show the maximum equipment.

\* feet adjustable by  $\pm 13$ mm

\*\* if there is one

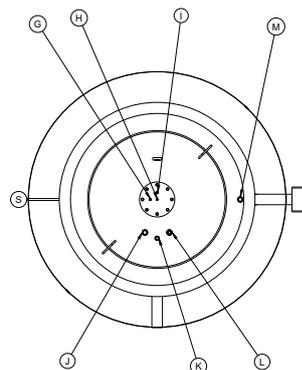
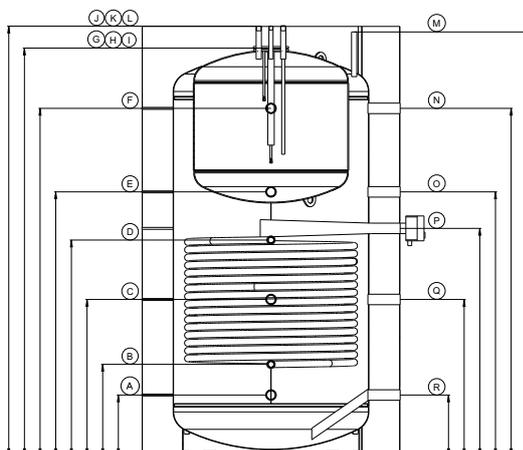
\*\*\* Caution: Install the temperature sensors before mounting the steel jacket.  
Use the sensor cable feed-through (L) for guiding the temperature sensors.

| Combined storage tank  |                         | 500      |
|--|-------------------------|----------|
| Real volume according to EN 12897  | [l]                     | 502      |
| Volume DHW tank (part of the real volume)                                | [l]                     | 121      |
| Fire protection class of insulation according to DIN 4102-1              | [-]                     | B2       |
| Total height including insulation  | [mm]                    | 1,790    |
| Diameter without insulation  | [mm]                    | 650      |
| Diameter with insulation   | [mm]                    | 760      |
| Tilt height  | [mm]                    | 1,925    |
| Weight   | [kg]                    | 165      |
| Energy efficiency class according to EU regulation no. 812/2013          | [-]                     | A+       |
| Standing loss acc. to EN 12897   | [W]                     | 43       |
| Output capacity 45°C (storage tanks 65°C, cold water 10°C, no reheating) | [l]                     | 236      |
| Performance factor NL following DIN 4708                                 | [-]                     | 3        |
| Buffer tank p <sub>max</sub> / t <sub>max</sub>                          | [bar] / [°C]            | 3 / 95   |
| DHW tank p <sub>max</sub> / t <sub>max</sub>                             | [bar] / [°C]            | 10 / 95  |
| Smooth-pipe heat exchanger bottom surface / volume                       | [m <sup>2</sup> ] / [l] | 2 / 13   |
| Smooth-pipe heat exchanger p <sub>max</sub> / t <sub>max</sub>           | [bar] / [°C]            | 10 / 130 |
| Return heat generator (Rp 1½")   | A [mm]                  | 221      |
| Return smooth-pipe heat exchanger bottom (Rp 1")                         | B [mm]                  | 329      |
| Freely available (Rp 1½")  | C [mm]                  | 668      |
| Flow smooth-pipe heat exchanger bottom (Rp 1")                           | D [mm]                  | 846      |
| Freely available (Rp 1½")  | E [mm]                  | 970      |
| Freely available (Rp 1½")  | F [mm]                  | 1,088    |
| Flow heat generator (Rp 1½")   | G [mm]                  | 1,428    |
| Anode connection (M8)  | H [mm]                  | 1,700    |
| Sensor sleeve DHW tank top (Ø 6 mm)                                      | I [mm]                  | 1,700    |
| Sensor sleeve DHW tank bottom (Ø 6 mm)                                   | J [mm]                  | 1,700    |
| Cold water connection (R ¾")   | K [mm]                  | 1,786    |
| Circulation connection (R ¾")  | L [mm]                  | 1,786    |
| Hot water connection (R ¾")  | M [mm]                  | 1,786    |
| Ventilation (Rp ½")  | N [mm]                  | 1,754    |
| Sensor sleeve (Ø 6 mm)   | O [mm]                  | 1,299    |
| Heating element (Rp 1½")   | P [mm]                  | 910      |
| Sensor sleeve (Ø 6 mm)   | Q [mm]                  | 383      |



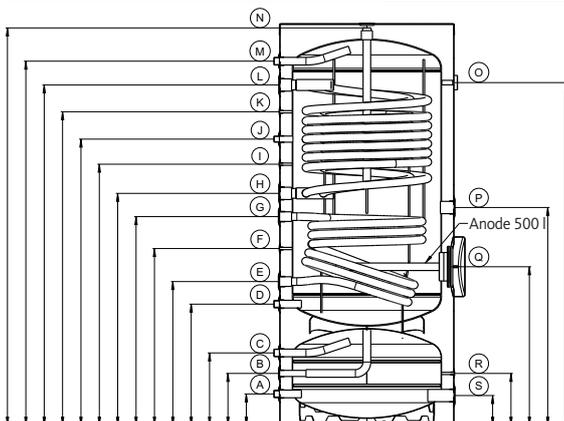
## Combined storage tanks 800 – 1,500

| Combined storage tanks  |              | 800             | 1,000           | 1,500           |
|---|--------------|-----------------|-----------------|-----------------|
| Real volume according to EN 12897   | [l]          | 788             | 993             | 1,464           |
| Volume DHW tank (part of the real volume)                                   | [l]          | 206             | 206             | 322             |
| Fire protection class of insulation according to DIN 4102-1                 | [-]          | B2              | B2              | B2              |
| Total height including insulation   | [mm]         | 1,945           | 2,355           | 2,215           |
| Diameter without insulation   | [mm]         | 790             | 790             | 1,000           |
| Diameter with insulation  | [mm]         | 1,015           | 1,015           | 1,315           |
| Tilt height   | [mm]         | 2,010           | 2,410           | 2,250           |
| Weight  | [kg]         | 260             | 350             | 380             |
| Standing loss acc. to EN 12897  | [W]          | 50              | 55              | 63              |
| Output capacity 45°C<br>(storage tanks 65°C, cold water 10°C, no reheating) | [l]          | 315             | 350             | 471             |
| Performance factor NL following DIN 4708                                    | [-]          | 6               | 7               | 12              |
| Buffer tank pmax / tmax   | [bar] / [°C] | 3 / 95          | 3 / 95          | 3 / 95          |
| DHW heat exchanger pmax / tmax  | [bar] / [°C] | 10 / 95         | 10 / 95         | 10 / 95         |
| Smooth-pipe heat exchanger bottom surface / volume                          | [m²] / [l]   | 2.6 / 17        | 3.3 / 21.3      | 4.5 / 29.7      |
| Smooth-pipe heat exchanger pmax / tmax                                      | [bar] / [°C] | 10 / 130        | 10 / 130        | 10 / 130        |
| Return heat generator (Rp 1 ½")   | A [mm]       | 255             | 255             | 312             |
| Return smooth-pipe heat exchanger bottom (Rp 1")                            | B [mm]       | 413             | 363             | 470             |
| Freely available (Rp 1 ½")  | C [mm]       | 694             | 832             | 804             |
| Flow smooth-pipe heat exchanger bottom (Rp 1")                              | D [mm]       | 893             | 1063            | 1110            |
| Freely available (Rp 1 ½")  | E [mm]       | 1,133           | 1,409           | 1,358           |
| Flow heat generator (Rp 1 ½")   | F [mm]       | 1,572           | 1,985           | 1,788           |
| Sensor sleeve drinking water tank top (Ø 6 mm)                              | GI [mm]      | 1,822           | 2,230           | 2,093           |
| Anode connection (M8)   | H [mm]       | 1,822           | 2,230           | 2,093           |
| Sensor sleeve drinking water tank bottom (Ø 6mm)                            | I [mm]       | 1,822           | 2,230           | 2,093           |
| Hot water connection (R ¾")   | J [mm]       | 1,939           | 2,352           | 2,211           |
| Circulation connection (R ½")   | K [mm]       | 1,939           | 2,352           | 2,211           |
| Cold water connection (R ¾")  | L [mm]       | 1,939           | 2,352           | 2,211           |
| Ventilation (Rp ½")   | M [mm]       | 1,927           | 2,340           | 2,181           |
| Freely available (Rp 1 ½")  | N [mm]       | 1,572           | 1,985           | 1,788           |
| Freely available (Rp 1 ½")  | O [mm]       | 1,133           | 1,409           | 1,358           |
| Heating element (Rp 1 ½")   | P [mm]       | 963             | 1,170           | 1,170           |
| Freely available (Rp 1 ½")  | Q [mm]       | 694             | 832             | 804             |
| Freely available (Rp 1 ½")  | R [mm]       | 255             | 255             | 312             |
| Sensor sleeve (Ø 6 mm)  | S [mm]       | various heights | various heights | various heights |





| Heat pump combination storage tanks – Reverse+   |                         | 300      | 400      | 500      |
|--|-------------------------|----------|----------|----------|
| Real volume according to EN 12897  | [l]                     | 301      | 399      | 468      |
| Volume DHW tank (part of the real volume)  | [l]                     | 203      | 300      | 370      |
| Fire protection class of insulation according to DIN 4102-1                                  | [-]                     | B2       | B2       | B2       |
| Total height including insulation  | [mm]                    | 1,235    | 1,540    | 1,762    |
| Diameter with insulation   | [mm]                    | 760      | 760      | 760      |
| Tilt height  | [mm]                    | 1,445    | 1,710    | 1,910    |
| Weight   | [kg]                    | 125      | 155      | 185      |
| Energy efficiency class according to EU regulation no. 812/2013                              | [-]                     | A+       | A+       | A+       |
| Standing loss acc. to EN 12897   | [W]                     | 36       | 39       | 42       |
| Output capacity 45°C<br>(storage tanks 65°C, cold water 10°C, no reheating)                  | [l]                     | 259      | 439      | 599      |
| Performance factor NL following DIN 4708   | [-]                     | 5        | 9        | 12       |
| Buffer tank pmax / tmax  | [bar] / [°C]            | 3 / 95   | 3 / 95   | 3 / 95   |
| DHW tank pmax / tmax   | [bar] / [°C]            | 10 / 95  | 10 / 95  | 10 / 95  |
| Smooth-pipe heat exchanger bottom surface / volume   | [m <sup>2</sup> ] / [l] | - / -    | 1 / 6    | 1 / 6    |
| Smooth-pipe heat exchanger top surface / volume  | [m <sup>2</sup> ] / [l] | 1.2 / 8  | 1.2 / 8  | 2.4 / 16 |
| Smooth-pipe heat exchanger pmax / tmax   | [bar] / [°C]            | 10 / 130 | 10 / 130 | 10 / 130 |
| Freely available (R 1")  | A [mm]                  | 137      | 137      | 137      |
| Ventilation (Rp ½")  | B [mm]                  | 227      | 227      | 227      |
| Freely available (R 1")  | C [mm]                  | 317      | 317      | 317      |
| Cold water connection (R 1")   | D [mm]                  | 531      | 531      | 531      |
| Return smooth-pipe heat exchanger bottom (Rp 1")   | E [mm]                  | -        | 630      | 630      |
| Sensor sleeve (Ø 6 mm)   | F [mm]                  | 630      | 775      | 775      |
| Flow smooth-pipe heat exchanger bottom (Rp 1")   | G [mm]                  | -        | 915      | 915      |
| Return smooth-pipe heat exchanger top (Rp 1½")   | H [mm]                  | 725      | 1,017    | 1,017    |
| Sensor sleeve (Ø 6 mm)   | I [mm]                  | -        | -        | 1,145    |
| Circulation connection (R ¾")  | J [mm]                  | 821      | 1,113    | 1,255    |
| Sensor sleeve (Ø 6 mm)   | K [mm]                  | 888      | 1,180    | 1,375    |
| Flow smooth-pipe heat exchanger top (Rp 1½")   | L [mm]                  | 970      | 1,262    | 1,493    |
| Hot water connection (R 1")  | M [mm]                  | 1,069    | 1,375    | 1,597    |
| Anode connection (Rp 1¼")  | N [mm]                  | 1,203    | 1,509    | 1,731    |
| Thermometer (Ø9 mm)  | O [mm]                  | 965      | 1,265    | 1,503    |
| Heating element (Rp 1½")   | P [mm]                  | -        | -        | 955      |
| Inspection hatch, also serves as heating element connection! (hole circle Ø 150 mm, 8 x M12) | Q [mm]                  | 695      | 695      | 695      |
| Sensor sleeve (Ø 6 mm)   | R [mm]                  | 227      | 227      | 227      |
| Heating element (Rp 1½")   | S [mm]                  | 130      | 130      | 130      |
| Max. ambient temperature   | [°C]                    | 30       | 30       | 30       |
| Max. rel. humidity   | [%]                     | 80       | 80       | 80       |



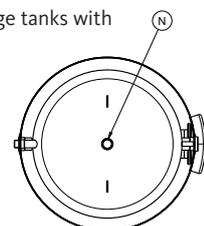
When using the storage tank as cold storage tank, all connections, also the ones currently not used, must be insulated impermeably.\*

\*Suitable accessories:

516210100 – connection insulation for storage tank sensor sleeves

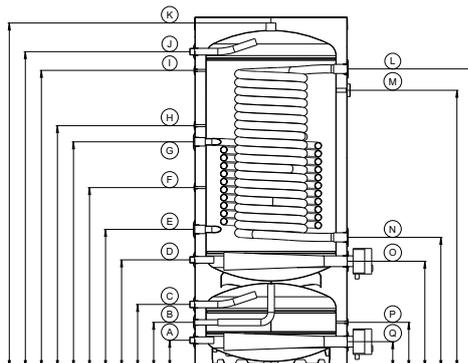
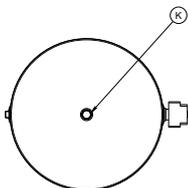
516210105 – connection insulation kit for storage tanks with connections from ½" to 1"

516210110 – connection insulation kit for storage tanks with connections from 1 ¼" to 1 ½"





| Fresh-water combination storage tanks – Reverse+                               |                     | 300         | 400         | 500         |
|--|---------------------|-------------|-------------|-------------|
| Real volume acc. to EN 12897   | [l]                 | 309         | 405         | 478         |
| Volume buffer tank<br>(part of the real volume)                                | [l]                 | 100         | 100         | 100         |
| Fire protection class of insulation acc. to DIN 4102-1                         | [-]                 | B2          | B2          | B2          |
| Total height including insulation  | [mm]                | 1,232       | 1,540       | 1,762       |
| Diameter without insulation  | [mm]                | 650         | 650         | 650         |
| Diameter with insulation   | [mm]                | 760         | 760         | 760         |
| Tilt height  | [mm]                | 1,445       | 1,710       | 1,910       |
| Weight   | [kg]                | 115         | 135         | 165         |
| Energy efficiency class acc. to EU regulation<br>no. 812/2013                  | [-]                 | A+          | A+          | A+          |
| Standing loss acc. to EN 12897   | [W]                 | 36          | 39          | 42          |
| Output capacity 45 °C (storage tanks 65 °C,<br>cold water 10 °C, no reheating) | [l]                 | 119         | 174         | 216         |
| Performance factor NL following DIN 4708                                       | [-]                 | 1,2         | 1,6         | 2           |
| Storage tank pmax / tmin / tmax  | [bar] / [°C] / [°C] | 3 / 10 / 95 | 3 / 10 / 95 | 3 / 10 / 95 |
| DHW heat exchanger surface / volume  | [m²] / [l]          | 2.6 / 15    | 3.4 / 19    | 4.7 / 27    |
| DHW heat exchanger pmax / tmax   | [bar] / [°C]        | 6 / 95      | 6 / 95      | 6 / 95      |
| Smooth-pipe heat exchanger pmax / tmax   | [bar] / [°C]        | 10 / 130    | 10 / 130    | 10 / 130    |
| Freely available (R 1")  | A [mm]              | 137         | 137         | 137         |
| Ventilation (Rp ½")  | B [mm]              | 227         | 227         | 227         |
| Freely available (R 1")  | C [mm]              | 317         | 317         | 317         |
| Return heat generator (R 1")   | D [mm]              | 541         | 541         | 541         |
| Return smooth-pipe heat exchanger bottom (Rp 1")                               | E [mm]              | -           | 686         | 694         |
| Sensor sleeve (Ø 6 mm)   | F [mm]              | 635         | 896         | 904         |
| Flow smooth-pipe heat exchanger bottom (Rp 1")                                 | G [mm]              | -           | 1,126       | 1,134       |
| Sensor sleeve (Ø 6 mm)   | H [mm]              | -           | -           | 1,215       |
| Sensor sleeve (Ø 6 mm)   | I [mm]              | 965         | 1,271       | 1,493       |
| Flow heat generator (R 1")   | J [mm]              | 1,059       | 1,365       | 1,587       |
| Ventilation (Rp 1¼")   | K [mm]              | 1,203       | 1,509       | 1,731       |
| Hot water connection (R 1¼")   | L [mm]              | 974         | 1,268       | 1,500       |
| Thermometer (Ø9 mm)  | M [mm]              | 865         | 1,175       | 1,393       |
| Cold water connection (R 1¼")  | N [mm]              | 654         | 654         | 654         |
| Heating element (Rp 1½")   | O [mm]              | 534         | 534         | 534         |
| Sensor sleeve (Ø 6 mm)   | P [mm]              | 227         | 227         | 227         |
| Heating element (Rp 1½")   | Q [mm]              | 130         | 130         | 130         |
| Max. ambient temperature   | [°C]                | 30          | 30          | 30          |
| Max. rel. humidity   | [%]                 | 80          | 80          | 80          |



When using the storage tank as cold storage tank, all connections, also the ones currently not used, must be insulated impermeably.\*

\*Suitable accessories:

516210100 – connection insulation for storage tank sensor sleeves

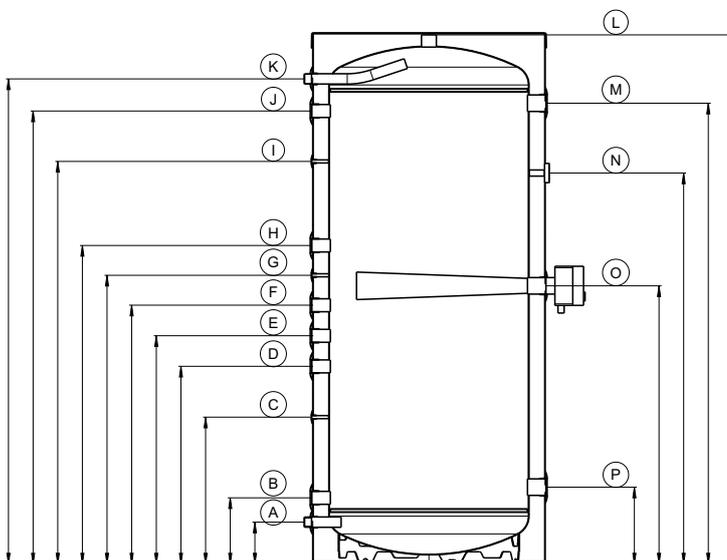
516210105 – connection insulation set for storage tanks with connections from ½" to 1"

516210110 – connection insulation set for storage tanks with connections from 1 ¼" to 1 ½"

Illustration shows the maximum equipment.



| Buffer storage tanks – Reverse+  |                     | 200         | 300         | 400         | 500         |
|--|---------------------|-------------|-------------|-------------|-------------|
| Real volume acc. to EN 12897   | [l]                 | 206         | 300         | 419         | 516         |
| Fire protection class of insulation acc. to DIN 4102-1                     | [-]                 | B2          | B2          | B2          | B2          |
| Total height including insulation  | [mm]                | 1,265       | 1,750       | 1,725       | 1,770       |
| Diameter without insulation  | [mm]                | 500         | 500         | 600         | 650         |
| Diameter with insulation   | [mm]                | 610         | 610         | 710         | 760         |
| Tilt height  | [mm]                | 1,375       | 1,830       | 1,865       | 1,925       |
| Weight   | [kg]                | 60          | 71          | 88          | 96          |
| Energy efficiency class acc. to EU regulation no. 812/2013                 | [-]                 | A+          | A+          | A+          | A+          |
| Standing loss acc. to EN 12897   | [W]                 | 31          | 36          | 40          | 43          |
| Storage tank pmax / tmin / tmax  | [bar] / [°C] / [°C] | 3 / 10 / 95 | 3 / 10 / 95 | 3 / 10 / 95 | 3 / 10 / 95 |
| Return heat generator or flow cold generator (R 1")                        | A [mm]              | 132         | 132         | 130         | 137         |
| Freely available (Rp 1")   | B [mm]              | 219         | 222         | 210         | 217         |
| Sensor sleeve (Ø 6 mm)   | C [mm]              | 415         | 415         | 474         | 481         |
| Freely available (Rp 1")   | D [mm]              | -           | -           | 640         | 647         |
| Freely available (Rp 1")   | E [mm]              | 619         | 622         | 740         | 747         |
| Freely available (Rp 1")   | F [mm]              | -           | -           | 840         | 847         |
| Sensor sleeve (Ø 6 mm)   | G [mm]              | -           | -           | 932         | 945         |
| Freely available (Rp 1")   | H [mm]              | 772         | 1217        | 1,025       | 1,042       |
| Sensor sleeve (Ø 6 mm)   | I [mm]              | 878         | 1347        | 1,265       | 1,317       |
| Freely available (Rp 1")   | J [mm]              | 982         | 1,487       | 1,465       | 1,482       |
| Flow heat generator or return cold generator (R 1")                        | K [mm]              | -           | -           | 1,565       | 1,587       |
| Flow heat generator or return cold generator (R 1") / ventilation (Rp 1¼") | L [mm]              | 1,264 / -   | 1,749 / -   | - / 1,695   | - / 1,731   |
| Freely available (Rp 1½")  | M [mm]              | 1,032       | 1,517       | 1,485       | 1,508       |
| Thermometer (Ø 9 mm)   | N [mm]              | 910         | 1,423       | 1,265       | 1,279       |
| Heating element (Rp 1½")   | O [mm]              | 689         | 1,145       | 895         | 910         |
| Freely available (Rp 1½")  | P [mm]              | 242         | 242         | 245         | 252         |
| Max. ambient temperature   | [°C]                | 30          | 30          | 30          | 30          |
| Max. rel. humidity   | [%]                 | 80          | 80          | 80          | 80          |



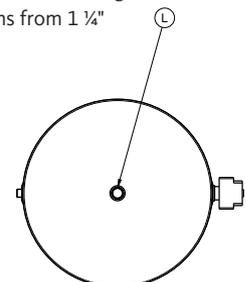
When using the storage tank as cold storage tank, all connections, also the ones currently not used, must be insulated impermeably.\*

\*Suitable accessories:

516210100 – connection insulation for storage tank sensor sleeves

516210105 – connection insulation set for storage tanks with connections from ½" to 1"

516210110 – connection insulation set for storage tanks with connections from 1 ¼" to 1 ½"



| Buffer storage tanks – Reverse+                        |                     | 725             | 1,325           |
|--|---------------------|-----------------|-----------------|
| Real volume acc. to EN 12897                           | [l]                 | 724             | 1,324           |
| Fire protection class of insulation acc. to DIN 4102-1 | [-]                 | B2              | B2              |
| Total height including insulation                      | [mm]                | 1,930           | 2,210           |
| Diameter without insulation                            | [mm]                | 790             | 990             |
| Diameter with insulation                               | [mm]                | 1,015           | 1,315           |
| Tilt height  | [mm]                | 1,880           | 2,170           |
| Weight   | [kg]                |                 |                 |
| Standing loss acc. to EN 12897                         | [W]                 | 51              | 63              |
| Storage tank pmax / tmin / tmax                        | [bar] / [°C] / [°C] | 3 / 10 / 95     | 3 / 10 / 95     |
| Return heat generator or flow cold generator (Rp 1½")  | A [mm]              | 255             | 312             |
| Freely available (Rp 1½")                              | B [mm]              | 694             | 804             |
| Freely available (Rp 1½")                              | C [mm]              | 1,133           | 1,358           |
| Flow heat generator or return cold generator (Rp 1½")  | D [mm]              | 1,572           | 1,788           |
| Ventilation (Rp 1¼")                                   | E [mm]              | 1,833           | 2,106           |
| Freely available (Rp 1½")                              | F [mm]              | 1,572           | 1,788           |
| Freely available (Rp 1½")                              | G [mm]              | 1,133           | 1,358           |
| Heating element (Rp 1½")                               | H [mm]              | 963             | 1,170           |
| Freely available (Rp 1½")                              | I [mm]              | 694             | 804             |
| Freely available (Rp 1½")                              | J [mm]              | 255             | 312             |
| Sensor sleeve (Ø 6 mm)                                 | K [mm]              | various heights | various heights |
| Max. ambient temperature                               | [°C]                | 30              | 30              |
| Max. rel. humidity                                     | [%]                 | 80              | 80              |

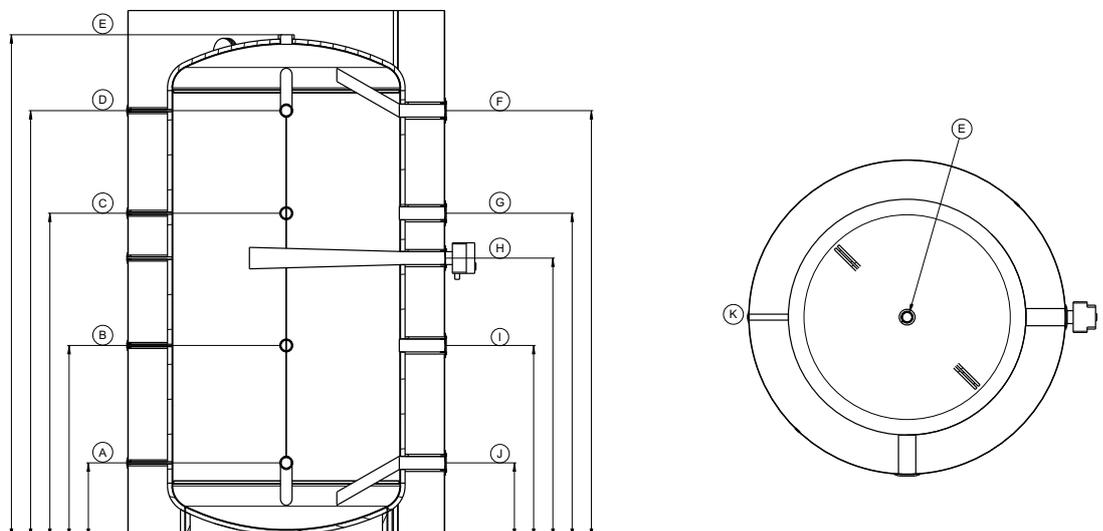
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