

OPERATING INSTRUCTIONS AND INSTALLATION

Storage tank

NAD 200 v15



NAD 300 v15



NAD 500 - 750 - 1000 v15



NAD 1500 v15



NAD 2000 v15



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READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLING THE TANK!

Dear customer,

Družstevní závody Dražice - strojírna s.r.o. would like to thank you for choosing to use our brand's product.



The product is not intended for use by

- a) by persons (including children) with reduced physical, sensory, or mental capabilities, or
- b) with insufficient knowledge and experience, unless they are supervised by a responsible person or have been properly trained.

The manufacturer reserves the right to make technical changes to the product.

We recommend using the product in an indoor environment with an air temperature of +2°C to +45°C and a relative humidity of max. 80%.

The reliability and safety of the product has been tested by the Engineering Test Institute in Brno.

Publisher Družstevní závody Dražice - strojírna s.r.o., Dražice 69, Benátky nad Jizerou, 294 71, Czech Republic, assures that the packaging meets the requirements of Sections 3 and 4 of Act No. 477/2001 Coll. on packaging and on amendments to certain acts, as amended.

Made in the Czech Republic.

Meaning of pictograms used in the instructions



Important information for users of the container.



Manufacturer's recommendations, compliance with which will ensure trouble-free operation and long service life of the product.



CAUTION!
Important notice that must be followed.

1 DESCRIPTION

Storage tanks are designed for collecting and balancing thermal energy in heating and cooling systems.

The devices allow the accumulation of hot water for heating and can also serve as a cold water reservoir for cooling systems.

The tanks act as a balancing element between the heat/cooling source and the consumption system.

They enable stabilization of operation, optimization of source performance, and ensuring sufficient energy reserves during peak consumption.

When used for hot water storage, the tanks are connected to the heating circuit and serve to store excess heat from the source (e.g., boiler, heat pump). When used for cold water storage, they are connected to the cooling circuit and function as a cold storage tank, which helps to balance temperature fluctuations and increases the efficiency of the cooling equipment.

The equipment must be operated in accordance with the specified technical parameters, in particular with regard to the maximum operating pressure, temperature range, and suitable working medium.

2 DESIGN OF THE SIZE AND CONNECTION OF THE STORAGE TANK TO THE HEATING SYSTEM

The optimal size of the storage tank is designed by a designer or a person with sufficient knowledge of heating system design.

Installation is carried out by a specialist company or person who confirms the installation in the warranty certificate.



Before installation, we recommend flushing the tank and heating circuit with clean water!

Before commissioning, we recommend starting the heating circuit and cleaning any impurities trapped in the filter, after which the system is fully functional.



The tank must be installed in a location that can be considered suitable, i.e., the device must be easily accessible for any necessary maintenance, repair, or replacement.

3 BASIC DIMENSIONS

ABOVE 200v15

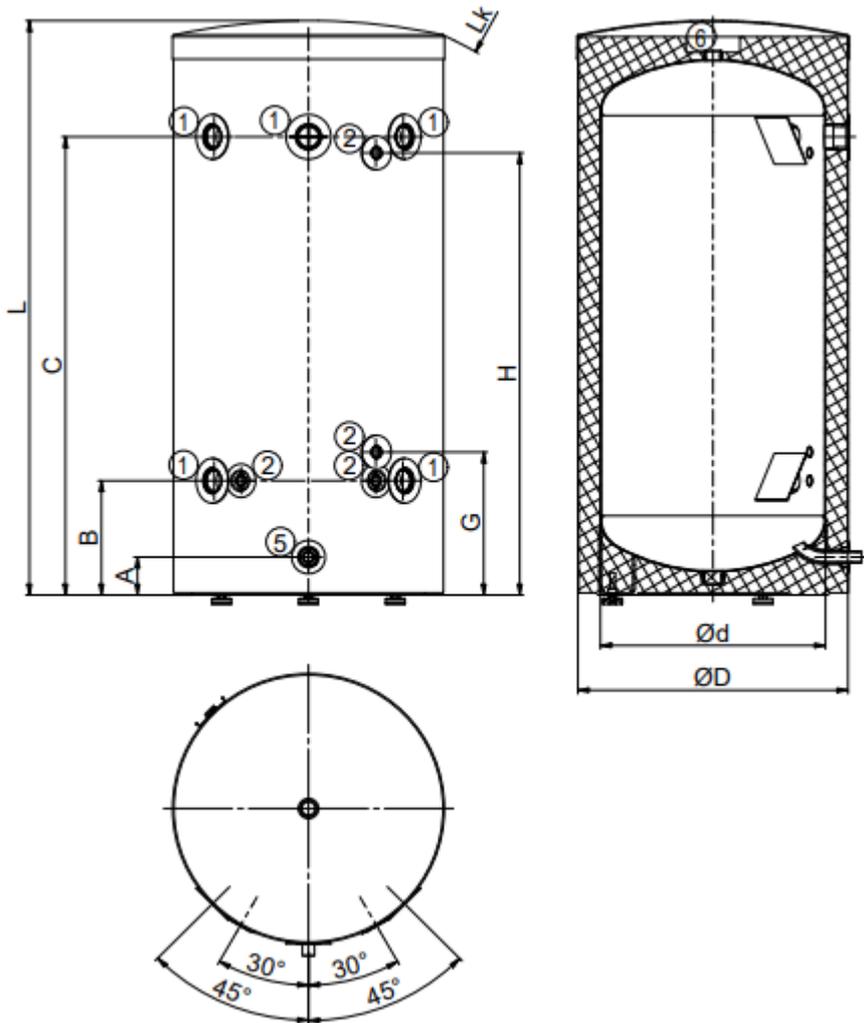


Figure 1

| NAD 200v15 | |
|------------|------|
| A | 85 |
| B | 225 |
| C | 1025 |
| d | 500 |
| D | 600 |
| G | 320 |
| H | 990 |
| L | 1285 |
| Lk | 1385 |

Table 1

| | |
|---|-------------------|
| ① | G 1 1/2" internal |
| ② | G 1/2" internal |
| ⑤ | G 3/4" external |
| ⑥ | G 1" internal |

- 1/ Heating water inlet/outlet
- 2/ Connections for sensor wells
- 5/ Heating water inlet
- 6/ Heating water outlet (venting)

NAD 300v15

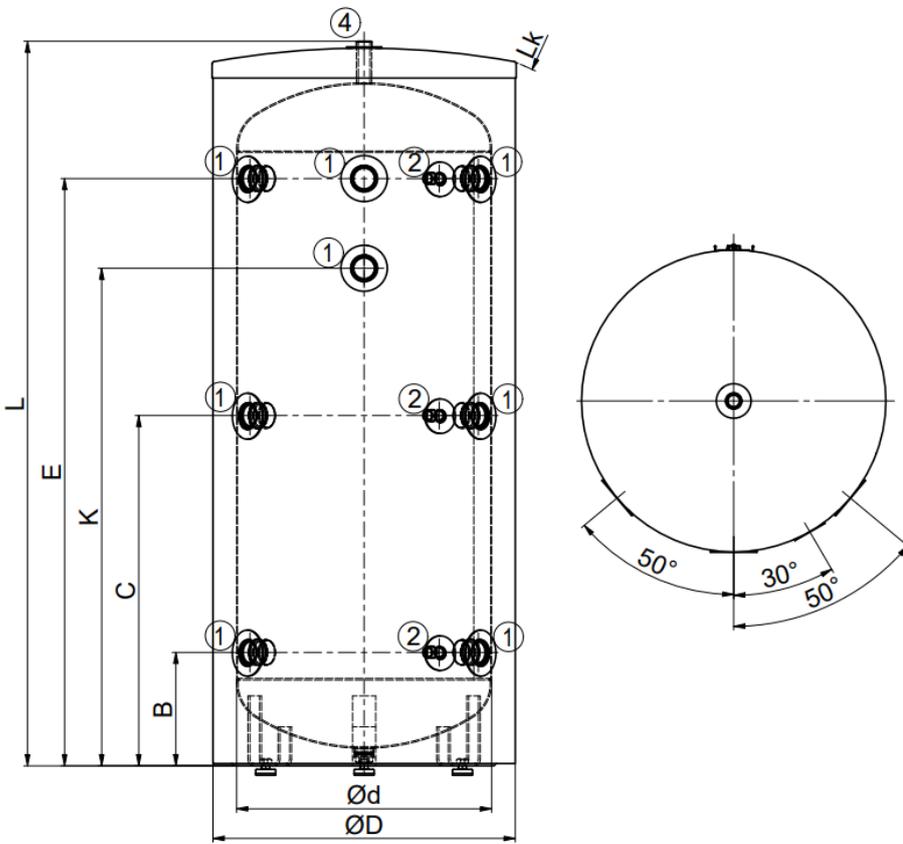


Figure 2

| NAD 300v15 | |
|------------|------|
| B | 247 |
| C | 762 |
| d | 550 |
| D | 650 |
| E | 1277 |
| K | 1082 |
| L | 1575 |
| Lk | 1660 |

Table 2

| | |
|---|-------------------|
| ① | G 1 1/2" internal |
| ② | G 1/2" internal |
| ④ | G 1" external |

- 1/ Heating water inlet/outlet
- 2/ Connections for sensor wells
- 4/ Venting/heating water

NAD 500v15

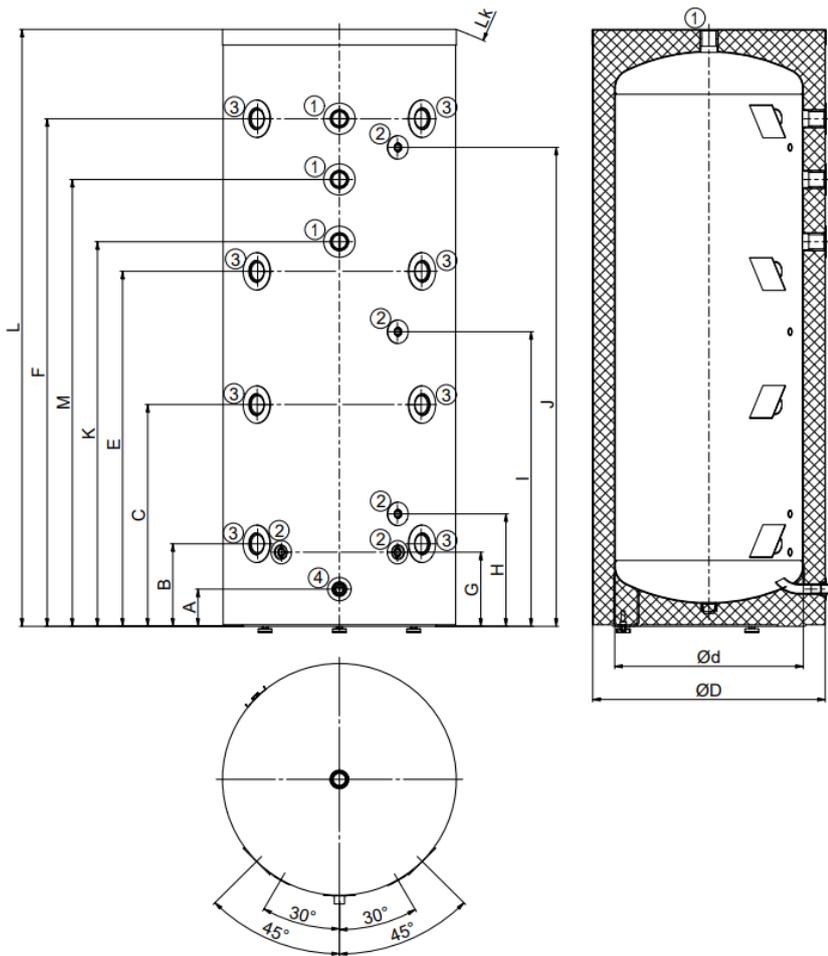


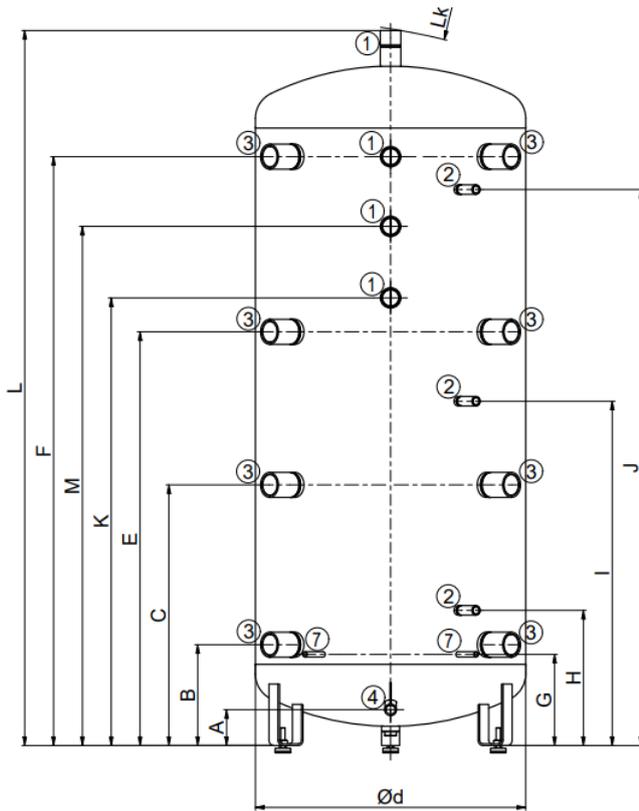
Figure 3

| NAD 500v15 | |
|------------|------|
| A | 120 |
| B | 265 |
| C | 712 |
| d | 600 |
| D | 740 |
| E | 1140 |
| F | 1630 |
| G | 238 |
| H | 361 |
| I | 946 |
| J | 1538 |
| K | 1235 |
| L | 2050 |
| Lk | 1538 |
| M | 1435 |

Table 3

| | |
|---|-------------------|
| ① | G 1 1/2" internal |
| ② | G 1/2" internal |
| ③ | G 2" internal |
| ④ | G 1" external |

- 1/ Heating water inlet/outlet
- 2/ Connections for sensor wells
- 3/ Heating water inlet/outlet
- 4/ Heating water inlet (drain)



| | NAD 750v15 | NAD 1000v15 |
|-----------|------------|-------------|
| A | 10 | 100 |
| B | 282 | 287 |
| C | 729 | 745 |
| d | 750 | 850 |
| E | 1157 | 1203 |
| F | 1647 | 1661 |
| G | 255 | 257 |
| H | 378 | 387 |
| I | 963 | 970 |
| J | 1555 | 1569 |
| K | 1252 | 1245 |
| L | 2000 | 2013 |
| Lk | 2030 | 2050 |
| M | 1452 | 1450 |

Table 4

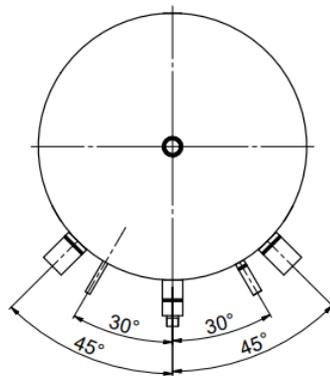


Figure 4

| | |
|---|-------------------|
| ① | G 1 1/2" internal |
| ② | G 1/2" internal |
| ③ | G 2" internal |
| ④ | G 1" external |
| ⑦ | Sump 15x2 |

- 1/ Heating water outlet (venting)
- 2/ Connectors for sensor sumps
- 3/ Heating water inlet/outlet
- 4/ Heating water inlet (drain)
- 7/ Sensor wells

NAD 1500v15

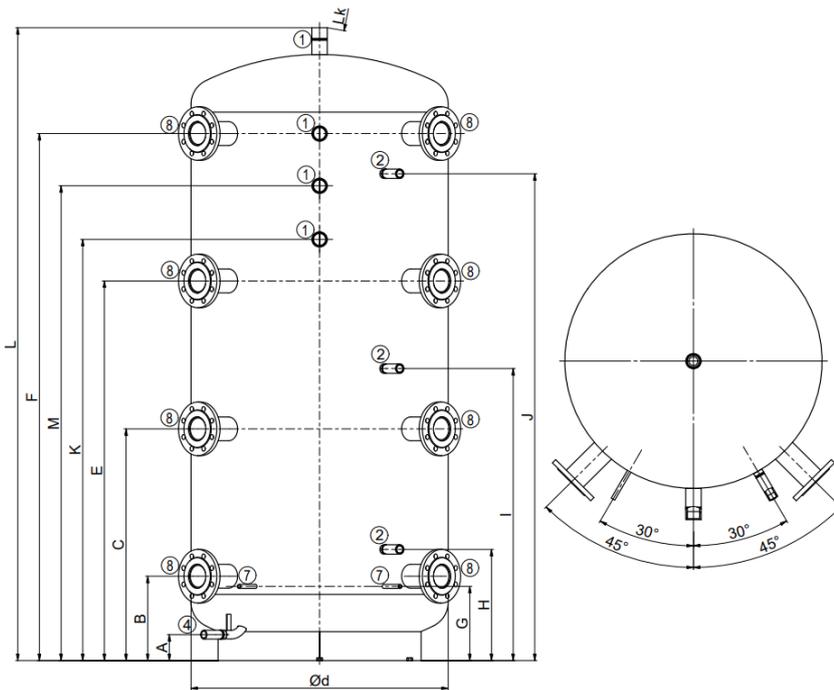


Figure 5

| NAD 1500v15 | |
|-------------|------|
| A | 97 |
| B | 315 |
| C | 865 |
| d | 950 |
| E | 1417 |
| F | 1967 |
| G | 277 |
| H | 415 |
| I | 1090 |
| J | 1817 |
| K | 1572 |
| L | 2362 |
| Lk | 2388 |
| M | 1772 |

Table 5

| | |
|---|-------------------|
| ① | G 1 1/2" internal |
| ② | G 1/2" internal |
| ④ | G 1" external |
| ⑦ | Sump 15x2 |
| ⑧ | PN16, DN80/88.9 |

- 1/ Heating water outlet (venting)
- 2/ Connectors for sensor sockets
- 4/ Heating water inlet
- 7/ Sensor wells
- 8/ Heating water inlet/outlet

NAD 2000v15

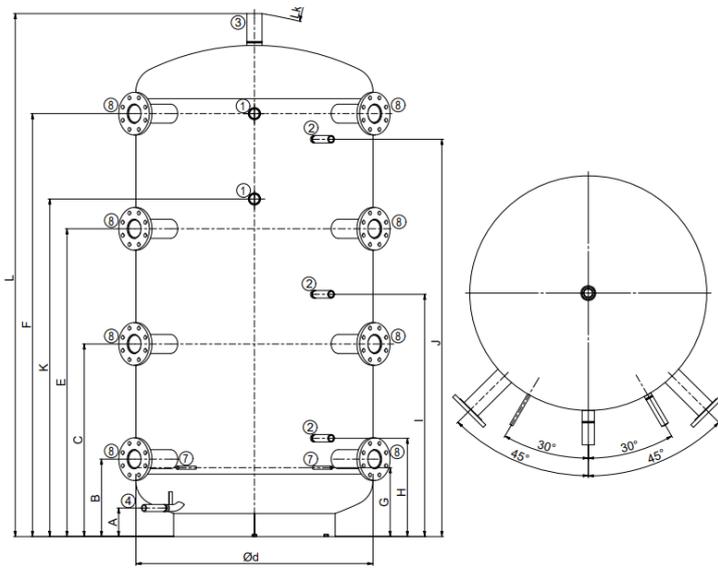


Figure 1

| NAD 2000v15 | |
|-------------|------|
| A | 134 |
| B | 363 |
| C | 903 |
| d | 1100 |
| E | 1443 |
| F | 1983 |
| G | 323 |
| H | 461 |
| I | 1136 |
| J | 1863 |
| K | 1583 |
| L | 2452 |
| Lk | 2486 |

Table 6

| | |
|---|-------------------|
| ① | G 1 1/2" internal |
| ② | G 1/2" internal |
| ③ | G 2" internal |
| ④ | G 1" external |
| ⑦ | Sump 15x2 |
| ⑧ | PN16, DN80/88.9 |

- 1/ Heating water outlet
- 2/ Connections for sensor sumps
- 3/ Heating water outlet (venting)
- 4/ Heating water inlet (drain)
- 7/ Sensor wells
- 8/ Heating water inlet/outlet

4 BASIC TECHNICAL PARAMETERS AND INSULATION

| Type | Units | NAD 200 v15 | NAD 300 v15 | NAD 500 v15 | NAD 750 v15 | NAD 1000 v15 | NAD 1500 v15 | NAD 2000 v15 |
|---|-----------|-------------|-------------|--------------|--------------|---------------|---------------|---------------|
| Order number | - | 1107803204 | 1210803204 | 1213803204 | 1216803204 | 1215803204 | 1221803204 | 1222803204 |
| Total tank volume | l | 200 | 320 | 475 | 772 | 999 | 1490 | 2007 |
| Dimensions including insulation (diameter x height) | mm | ø600 x 1285 | ø650 x 1575 | ø 740 x 1920 | ø 910 x 2030 | ø 1010 x 2040 | ø 1160 x 2360 | ø 1400 x 2460 |
| Weight including insulations (without water) | kg | 45 | 70 | 98 | 123 | 141 | 245 | 290 |
| Tilt height | mm | 1385 | 1660 | 2050 | 2050 | 2060 | 2390 | 2470 |
| Maximum operating temperature / overpressure in the container | °C / bar | 90 / 3 | 90 / 3 | 90 / 3 | 90 / 3 | 90 / 3 | 90 / 3 | 90 / 3 |
| Minimum operating temperature for cooling | °C | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Insulation thickness (Neodul LB PP) | mm | PUR 50 | PUR 50 | PUR 70 | 80 | 80 | 100 | 100 |
| Thermal conductivity of insulation λ | W.m-1.K-1 | 0.021 | 0.021 | 0.021 | 0.032 | 0.032 | 0.032 | 0.032 |
| Insulation order number Neodul LB PP | - | - | - | - | 6232166 | 6232167 | 6232168 | 6232165 |
| Order number for cooling insulation CELLA COOL | - | - | - | - | 6231834 | 6231836 | 6231837 | 6231835 |
| insulation order number Neodul LB PP (via CELLA COOL) | - | - | - | - | 6231736 | 6231737 | 6231738 | 6231739 |
| Maximum number x performance | pcs x kW | - | - | - | - | - | - | - |
| Maximum number x power of elements and TJ 6/4" | pcs x kW | 1 x 6 | 2 x 6 | 3 x 9 | 3 x 9 | 3 x 9 | 3 x 9 | 2 x 9 |
| Maximum number x power of TPJ 150-8 heaters | pcs x kW | - | - | - | - | - | - | - |
| Energy efficiency class | - | B | C | B | - | - | - | - |
| Static loss | W | 53 | 80 | 68 | - | - | - | - |

Table 7

NAD 200 v15, NAD 300 v15, and NAD 500 v15 tanks are supplied from the factory **insulated** with **50 mm or 70 mm** thick **PUR foam**. The **NAD 750 v15, NAD 1000 v15, NAD 1500 v15, and NAD 2000 v15** containers are supplied **without insulation** as standard, but additional insulation can be added. The following types of insulation are available:

- **Neodul LB PP**
- **CELLA COOL for cooling**
- **Neodul LB PP (over CELLA COOL)**

See the table for the OR order numbers of individual insulation types (Table 7)

5 DISPOSAL OF PACKAGING MATERIAL AND NON-FUNCTIONAL PRODUCTS

A service fee was paid for the packaging in which the product was delivered to ensure the return and recycling of the packaging material. The service fee was paid in accordance with Act No. 477/2001 Coll. as amended by later regulations at EKO-KOM a.s. The company's client number is F06020274. Dispose of the packaging from the water tank at a location designated by the municipality for waste disposal. After the end of operation, dismantle the discarded and unusable product and transport it to a waste recycling center (collection yard) or contact the manufacturer.



2-2-2026