GB - Operational mounting regulations

1. Description

Storage tanks are used for accumulating of excessive heat received from the heat source like, for example, a solid fuel boiler, a heat pump, solar collectors, fireplace inserts, etc. Some tank types allow connecting more than one heat source at a time.

NAD type storage tanks are used for accumulation of heat in heating systems. Incorporation of the storage tank into a heating system with a boiler using solid fuel allows for optimum running of the boiler at a favourable temperature during boiler operation. The benefit comes mainly during the optimum running period (i.e. with maximum effectiveness) when the excess heat that has not been taken off is accumulated in the tank.

Tanks and also possible pipe exchangers are manufactured from steel with no treatment of the internal surface, the outer surface has a protective coating. Tanks are equipped with removable 80 mm insulation – NEODUL LB PP. Tanks are manufactured with volumes of 500, 750 and 1000 litres. Individual versions are also equipped with one or two 1.5 m2 pipe exchangers including inspection apertures with an inside diameter of 182 mm with the possibility for installation of in-built TPK electric heating units.

The vessels are not intended for storage of HUW - hot utility water.

2. Basic dimensions

Volume (l)	Diameter (mm)	Height (mm)
500	600	1990
750	750	2020
1000	850	2053

3. Description of individual versions

NAD v1
Storage tanks can be provided with one to three flanges. The flange with screw gauge 210 mm can be used for mounting built-in TPK flange electric heating units. The flange is blocked off in the standard version. The G6/4“ extension pipe cab be used for mounting of the TJ G 6/4“ electric heating unit. Supplied with insulation with a thickness of 80 mm.

NAD v2
Storage tank can be provided with G6/4“ extension pipe. The G6/4“ extension pipe cab be used for mounting of the TJ G 6/4“ electric heating unit. Supplied with insulation with a thickness of 80 mm.

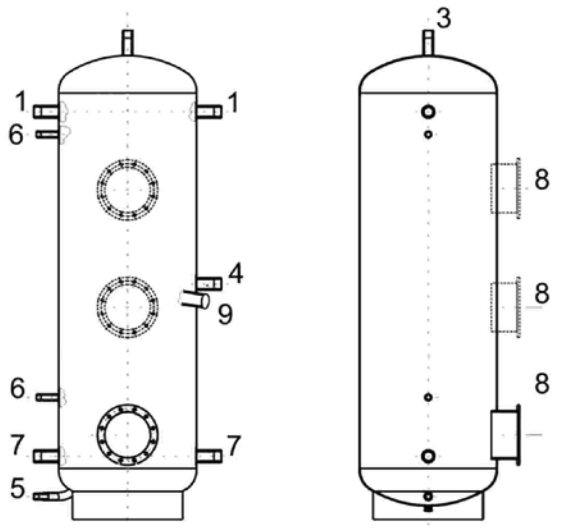
NAD v3
Storage tank with a flange with screw gauge 210 mm and extension pipes or only with extension pipes. The flange with a screw gauge of 210 mm can be used for mounting built-in TPK flange heating units. The flange is blocked off in the standard version. Supplied with insulation with a thickness of 80 mm.

NAD v4
Storage tank with a flange with screw gauge 210 mm for mounting built-in TPK flange heating units and one 1.5 m2 exchanger for further heating system connection (e.g. SOLAR). The flange is blocked off in the standard version. Supplied with insulation with a thickness of 80 mm.

NAD v5
Storage tank with a flange with screw gauge 210 mm for mounting built-in TPK flange heating units and two 1.5 m2 exchangers for further heating system connection (e.g. SOLAR). The flange is blocked off in the standard version. Supplied with insulation with a thickness of 80 mm.

4. Illustration of NAD versions

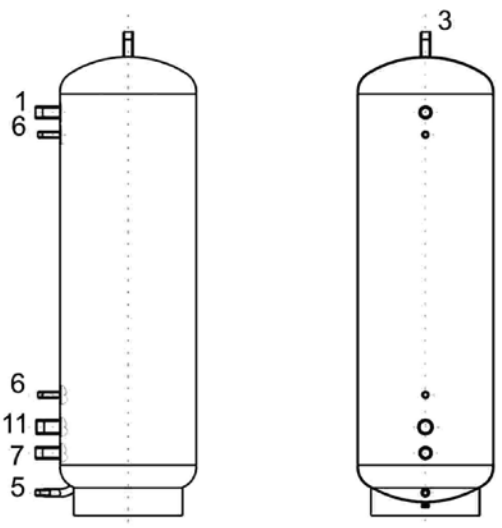
NAD v1



Outlets:

1. Inlets for water to storage tank	internal G5/4"
3. Outlet for storage tank (air outlet)	external G1"
4. Other outlet	internal G5/4"
5. Water inlet to storage tank (discharge)	external G1"
6. Wells for sensors (thermometer, thermostat)	internal G1/2"
7. Water outlet from storage tank (return water)	internal G5/4"
8. Flange with screw gauge 210 for TPK mounting	
9. Possibility for mounting TJ 6/4" el. heating unit	internal G1 1/2"

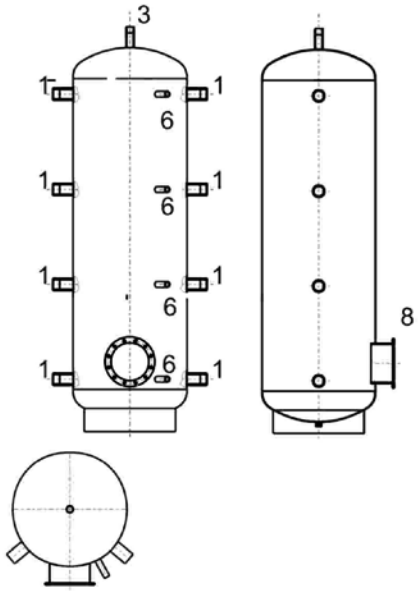
NAD v2



Outlets:

1. Inlets for water to storage tank	internal G5/4"
3. Outlet for storage tank (air outlet)	external G1'
5. Water inlet to storage tank (discharge)	external G1"
6. Wells for sensors (thermometer, thermostat)	internal G1/2"
7. Water outlet from storage tank (return water)	internal G5/4"
11. Possibility for mounting TJ 6/4" el. heating unit	internal G1 1/2"

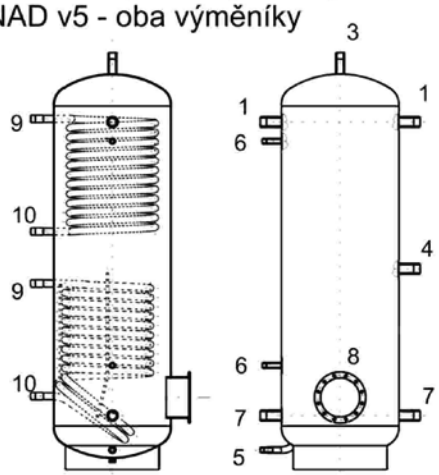
NAD v3



Outlets:

1. Outlets (inlets) for water to storage tank, possibility of mounting TJ 6/4" el. heating unit	internal G1 1/2"
3. Outlet for storage tank (air outlet)	external G1"
6. Wells for sensors (thermometer, thermostat)	internal G1/2"
8. Flange with screw gauge 210 for TPK mounting	

NAD v4 - pouze spodní výměník
NAD v5 - oba výměníky



Outlets:

1. Inlets for water to storage tank	internal G5/4"
3. Outlet for storage tank (air outlet)	external G1"
4. Other outlet	internal G5/4"
5. Water inlet to storage tank (discharge)	external G1"
6. Wells for sensors (thermometer, thermostat)	internal G1/2"
7. Water outlet from storage tank (return water)	internal G5/4"
8. Flange with screw gauge 210 for TPK mounting separate heating system –sol. Heat pump	
9. Inlet for heating water	external G1"
10. Outlet for heating water	external G1"

5. Proposal for size and connection of the storage tank to a heating system

Proposal for the optimum size of the storage tank is made by the designer or a person with sufficient knowledge for design of heating systems.

Mounting is carried out by a specialist company or person who can confirm mounting in on the guarantee certificate.

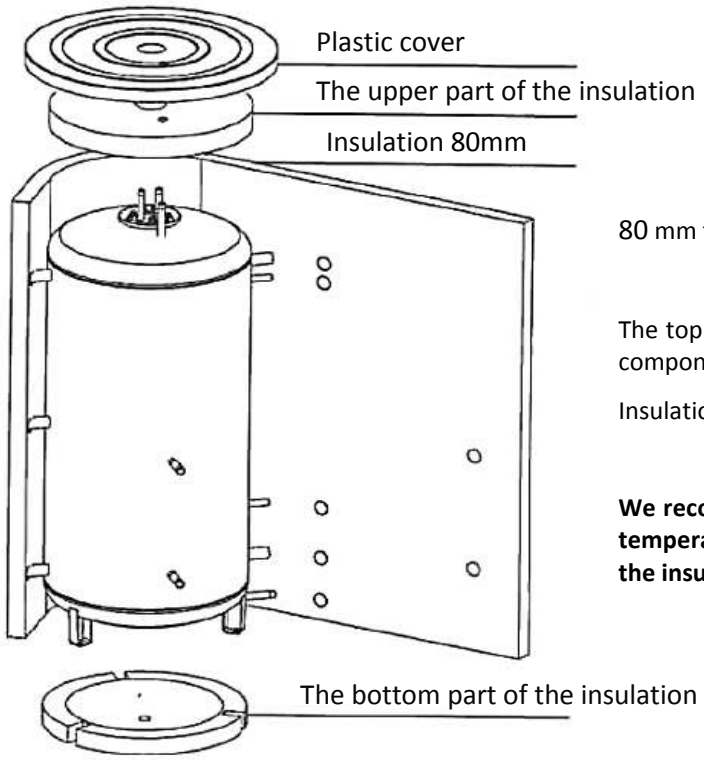
We recommend you use the product indoors with an air temperature of +5°C to 45°C and relative humidity of max. 80%.

6. Basic technical parameters

Maximum operational pressure in the tank is 0,3 MPa. Maximum temperature of heating water in the tank is 90°C.

For versions 4 and 5 also:
Maximum operational pressure in the exchanger is 1 MPa, maximum temperature of heating water in the exchanger is 110°C.

Heat insulation



80 mm thick insulation NEODUL LB PP.

The top cover, covers of flanges and hole caps are integral components.

Insulation is supplied in separate packing.

We recommend you use insulation for operation at room temperature. At temperatures markedly lower than 20°C the insulation shrinks and cannot be fitted.