



## Storage tanks

**NADO 500/300 v1**

**NADO 750/250 v1**

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## 1. Description

Storage tanks serve accumulation of excessive heat from its source. The source may be a solid fuel boiler, heat pump, solar collectors, fireplace inserts, etc. Some types of storage tanks allow combination of connecting even multiple sources.

The NADO type storage tanks serve accumulation of heat in the heating system and allow heating or preheating of HSW (Hot Service Water) in an inner vessel. Incorporation of an storage tank in the heating system with a solid fuel boiler allows an ideal run of a boiler at favourable temperature during the boiler operation. The main benefit lies in the period of optimum operation (i.e. with maximum efficiency) when the excessive unconsumed heat accumulates in the storage tank.

The tanks are made of steel, without any inner surface treatment, the outer surface of the tank is provided with a protective paint. The storage tanks are manufactured in 500 and 750 litre volumes. Individual versions are additionally equipped with an inner accumulator of 300 and 250 litre volumes, and funnels G1½“ mm, with a possibility to install an electric heating element of TJ 6/4“ series. The storage tanks are equipped with a removable 100 mm thick insulation - polyurethane foam (foam rubber) and a lock.

The NADO type enables direct heating of HSW (Hot Service Water) in an inner accumulator, or preheating of water for another water heater. Connection to a boiler usually allows direct HSW heating in an inner accumulator to the desired temperature whilst, on the contrary, connection to solar collectors or to a heat pump only preheats HSW and this storage tank can be connected to e.g. an electric heater to complete heating of the water to the desired temperature, or an electric reheat can be fitted in the storage tank which is enabled by a TJ 6/4“ series electric heating unit. The NADO versions are equipped with a flange with 260 mm screw spacing which can be used to fit an in-built finned exchanger. In the standard version, the flange is blinded.

## 2. Designing the size and connection of storage tank to the heating system

An ideal size of the storage tank is designed by a design engineer, or a person sufficiently qualified to design heating systems.

Product assembly must be implemented by an authorised person (confirmed in the warranty certificate).

**Important: When putting into operation, water has to be filled first into the inner vessel for HSW and the operating pressure inside it has to be kept, only then heating water can be filled into the outer storage tank, otherwise the product may get damaged!**

**The manufacturer explicitly emphasises the necessity of being particular in testing the tightness of the heating circuit (radiators, piping joints, floor heating, etc.) with the connection of the storage tank. No pressure grow in the storage tank heating water compartment may occur above the maximum operating pressure of 0.3 MPa, if the heating system is pressurised to higher than the maximum operating pressure, the inner enamelled vessel may get permanently damaged!**

**No stop fitting can be put between the security fitting of the heating circuit and the storage tank!!!**

## 3. General Technical Parameters

	NADO 500/300 v1	NADO 750/250 v1
Storage tank capacity (l)	200	491
Inner vessel capacity (l)	300	255
Maximum tank pressure (MPa)	0,3	0,3
Maximum pressure of the inner vessel (MPa)	0,6	0,6
Heat transfer at heating water temperature 50°C (kWh)	18,2	14,83
Amount of hot water 40°C (l)	417	340
Maximum temperature of water in the tank and vessel (°C)	90	90
Maximum output of el. heating element of TJ 6/4" series (kW)	9	3x9
Standing loss (W)	80/132	117/156

## Recommendation

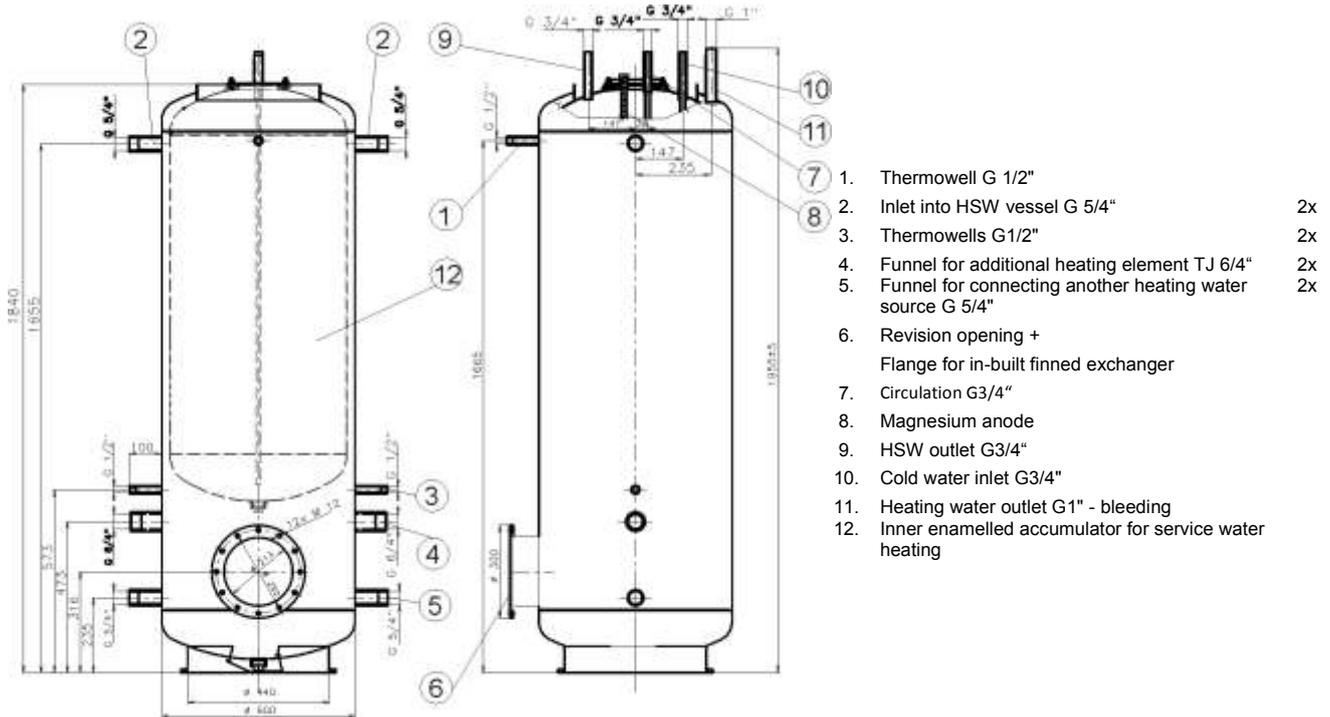
It is recommended to use the product in an indoor environment with air temperatures from +5°C to 45°C and a maximum relative humidity up to 80%.

Connection of the inner vessel to HSW must comply with ČSN 06 0830, a safety valve has to be fitted on the cold water inlet.

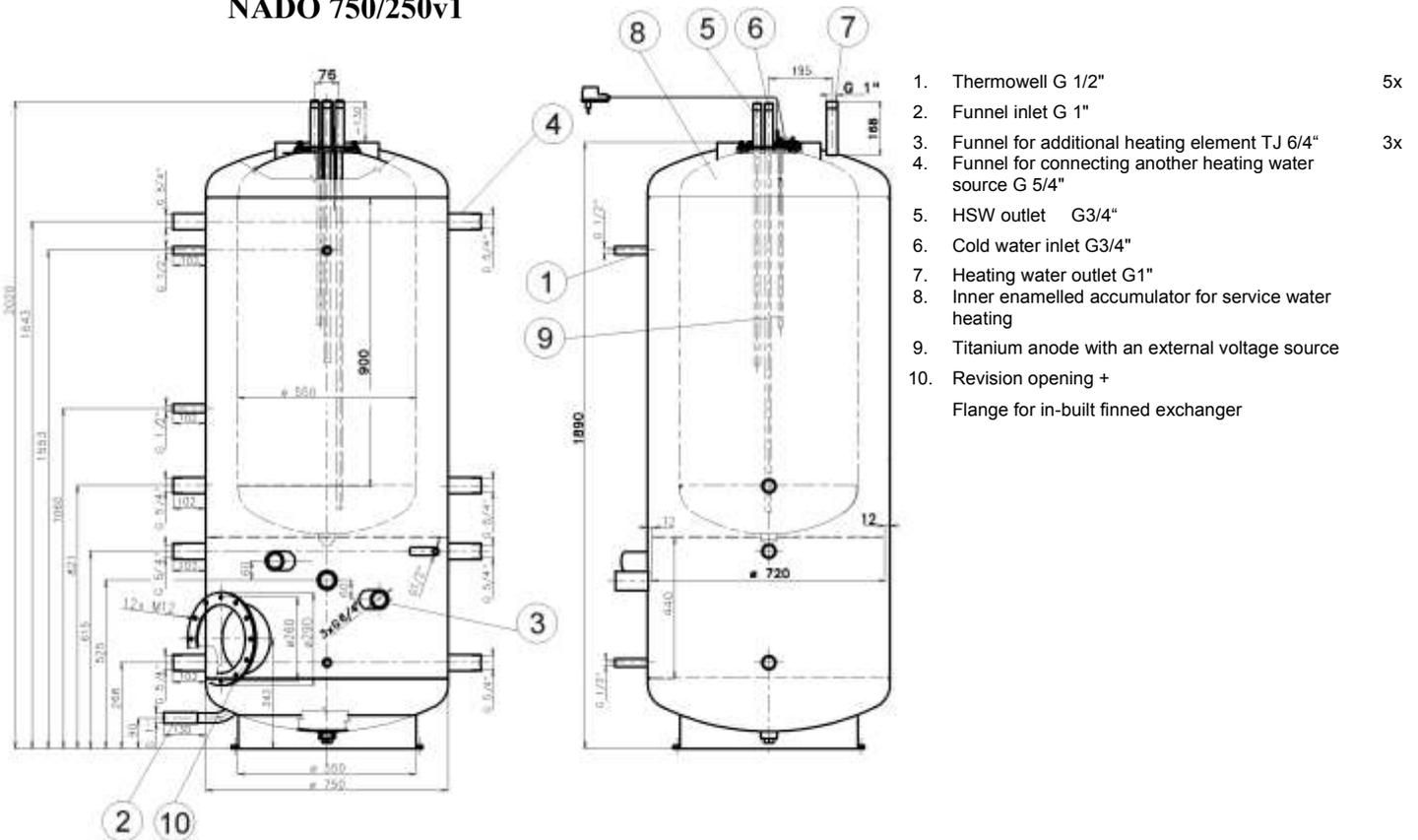
Prior to commissioning, we recommend that you run the heating circuit and any impurities that are trapped in the filter clean, then the system is fully operational.

## 4. Technical description

### NADO 500/300v1



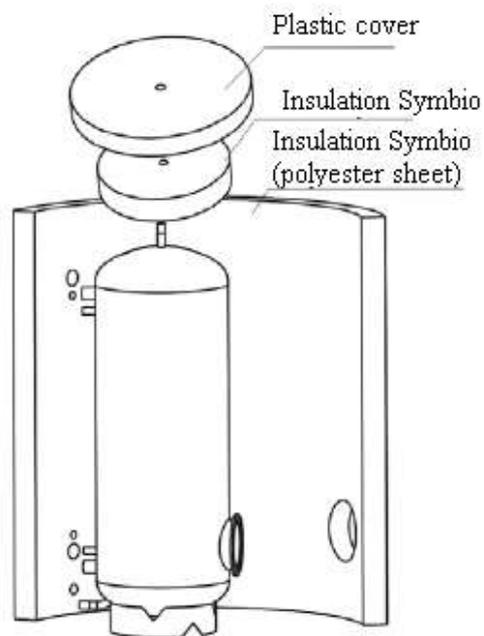
### NADO 750/250v1



## Thermal insulation

Polyester sheet of 100 mm thickness. It consists of an upper cover, flange cover and hole caps. Insulation is supplied in a separate packaging.

We recommend that the insulation was fitted at room temperature. At temperatures significantly below 20°C the insulation shrinks. This disables its easy fitting.



## Disposal of packaging material and functionless product

A service fee for providing return and recovery of packaging material has been paid for the packaging in which the water heater was delivered.

The service fee was paid pursuant to Act No. 477/2001 Coll., as amended, at EKO-KOM a.s. The client number of the company is F06020274. Take the water boiler packages to a waste disposal place determined by the town. When the operation terminates, disassemble and transport the discarded and unserviceable heater to a waste recycling centre (collecting yard), or contact the manufacturer.

