



# NIBE

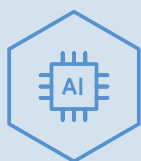
## Water heater / Accumulator tank

### **NIBE VPB S**

**The NIBE VPB S 200/300 is an efficient hot water tank which is designed for connection to a heat pump.**

The NIBE VPB and the ground source heat pump NIBE S1156 have a customised design, providing a stylish system solution with the option of concealed piping between the products.

The NIBE VPB S has insulation made of polyurethane, which provides very good heat insulation.



- **Efficient hot water tank designed for connection to a heat pump or other energy source.**
- **Stylish design for customisation with NIBE heat pump.**
- **Minimal heat loss with polyurethane insulation.**

# Good to know about NIBE VPB S

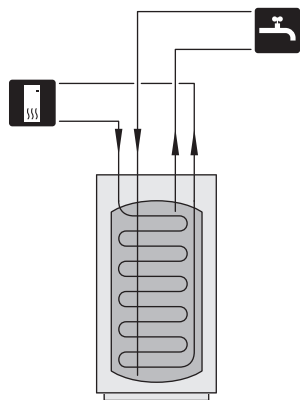
## System diagram

This is the outline diagram. Actual installations must be planned according to applicable standards.

VPB S is a series of water heaters that are suitable for connection to e.g. a heat pump.

Further information about the system principle is available at [nibe.se](http://nibe.se) and in the manuals for the heat sources used.

## VPB S200 / VPB S300



## Design

VPB S has internal copper, stainless steel or enamel corrosion protection.

VPB S is equipped with a charge coil that heats the domestic water, resulting in excellent properties for hot water charging.

VPB S is designed and manufactured for a maximum cut-off pressure of 10 bar.

VPB S-Enamel is supplied from the factory with a direct-current anode and an enclosed potentiostat.

The insulation is polyurethane, which provides excellent thermal insulation.

VPB S is equipped with three sensors for external control and display of the hot water heating.

## Transport and storage

VPB S must be transported and stored vertically.

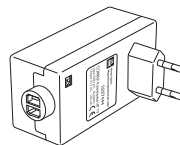
Check that VPB S has not been damaged during transport.

## Installation and positioning

- VPB S must only be installed vertically.
- Position VPB S on a firm base that can take the weight, preferably on a concrete floor or foundation. Use the adjustable feet to obtain a horizontal and stable set-up.
- The area where the VPB S is located must be frost-proof and equipped with a floor drain.

## Supplied components

### VPB S (ENAMEL)



Potentiostat

## Compatible products

- S1156-8, 13, 18\*
- S2125-8, 12
- S735
- F1145-6, 8, 10, 12\*
- F1126-8, 12\*
- F2120-16
- F2050-6, 10

For ground-source heat pumps, the recommendation applies for max. 10°C brine temperature and 53°C in the tank applies.

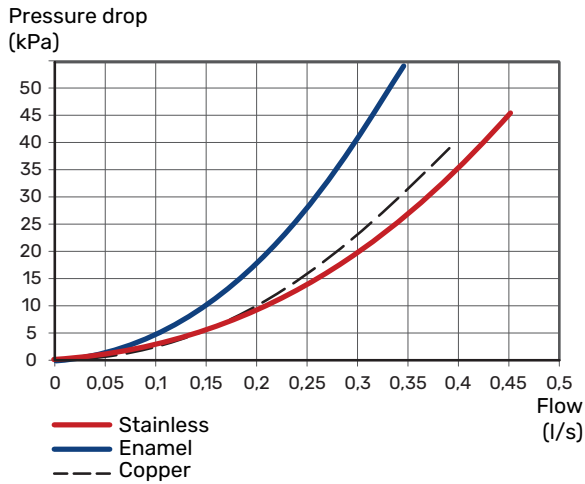
In installations with an air/water heat pump, a control module is also necessary.

# Installation

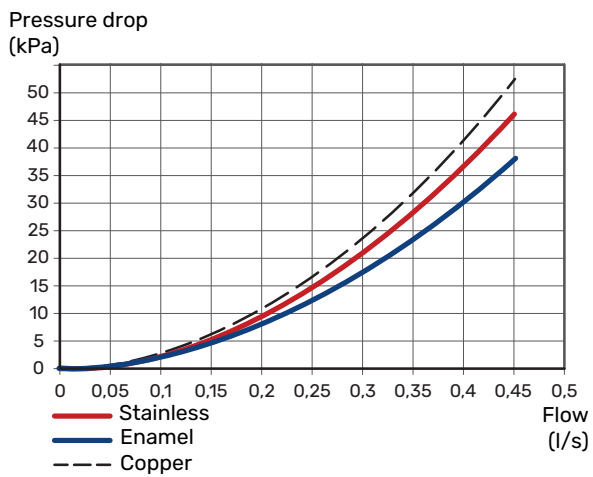
## Pipe installation

### PRESSURE DROP DIAGRAM, CHARGE COIL

#### VPB S200



#### VPB S300



## Electrical installation

Electrical installation and service must be carried out under the supervision of a qualified electrician. Electrical installation and wiring must be carried out in accordance with the stipulations in force.

### SENSORS

VPB S200 and VPB S300 have three sensors supplied from the factory, one for display and two for control. The sensors are placed in submerged tubes. Connect the sensor cables to a compatible product according to the list on page 2. See the product manual for connecting sensors.



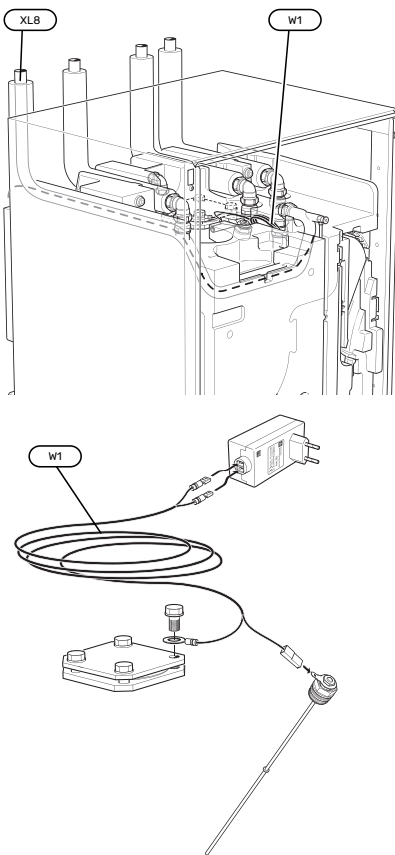
## DIRECT-CURRENT ANODE

VPB S Enamel is supplied from the factory with a direct-current anode and an enclosed potentiostat. The anode cable is installed in the anode from the factory and only needs to be connected to the potentiostat.

VPB S Enamel is equipped with direct-current anode and supplied with potentiostat from the factory. The anode cable (W1) is installed in the anode from the factory and only needs to be connected to the potentiostat.

1. Route the anode cable (W1) along the docking pipe, flow line (XL8).
2. Connect the anode cable (W1) to the potentiostat.
3. Connect the potentiostat to a suitable 230 V wall socket.

The cable between the potentiostat and the anode must either be extended or shortened.

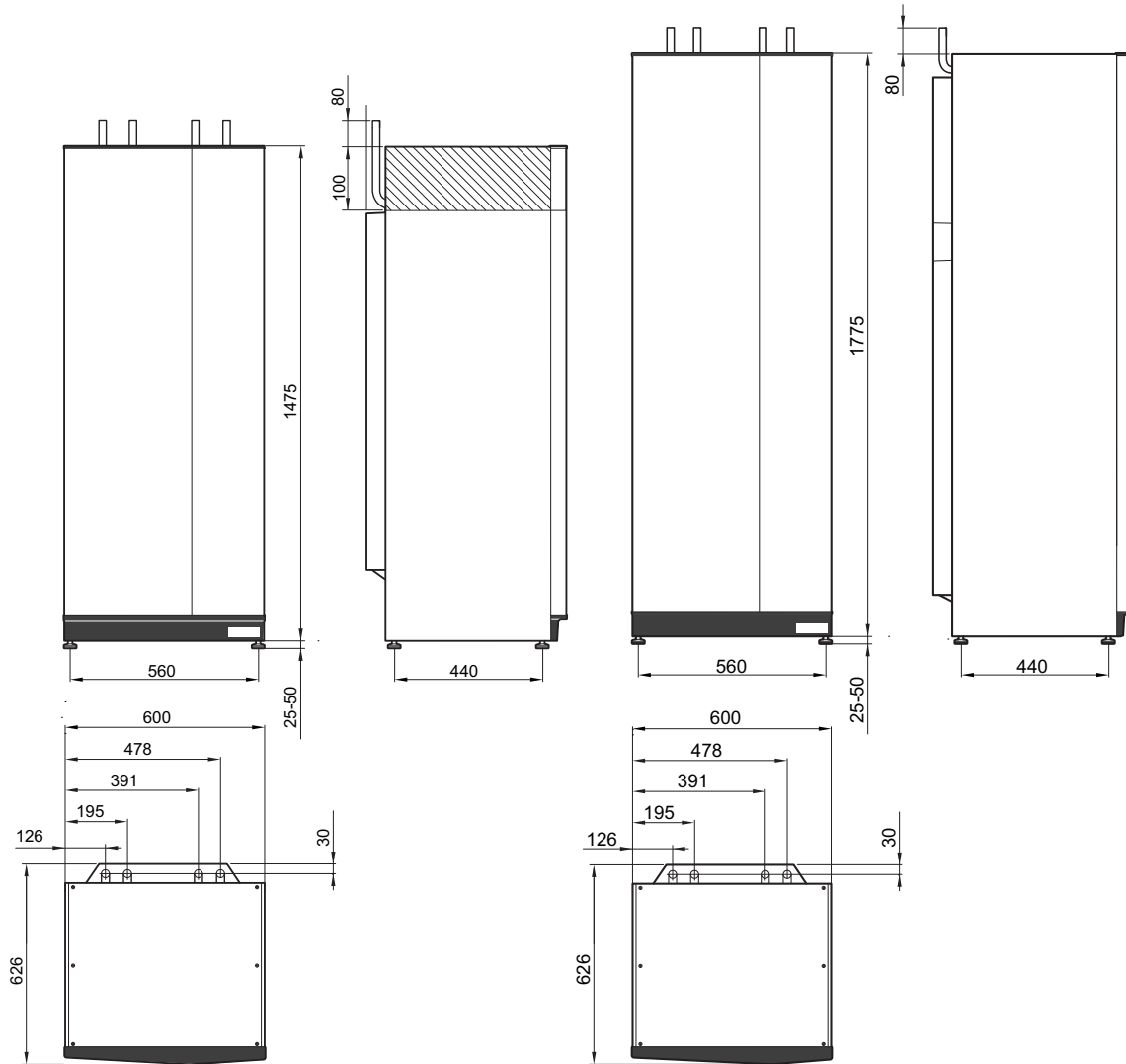


The figure shows VPB S200 E.

# Technical data

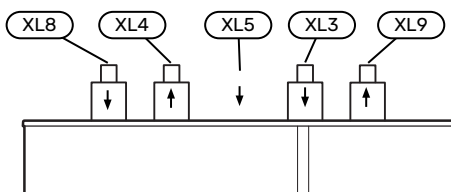
## Dimensions

### VPB S200 / VPB S300



## Pipe connections

### VPB S200 / VPB S300



Connection	mm	mm
XL3 Cold water Ø	mm	22
XL4 Hot water Ø	mm	22
XL5 Hot water circulation Ø	mm	15
XL8 Docking connection, supply line Ø	mm	22
XL9 Docking connection, return line Ø	mm	22

# Technical specifications

VPB S200		Copper	Enamel	Stainless
<b>Heating medium circuit</b>				
Max pressure in the heating medium circuit	bar/MPa	0.3 (3)		
<b>Pipe connections</b>				
Hot water ext Ø	mm	22		
Cold water ext Ø	mm	22		
Hot water circulation ext Ø	mm	15		
Docking ext Ø	mm	22		
Max operating temperature	°C	85		
Opening pressure, safety valve	MPa (bar)	1.0 (10)		
Heating time (10°C to 50°C) 8 kW charge power	h	1		
Equivalent amount of hot water (40 °C) <sup>1</sup>	litre	230	238	235
<b>Dimensions and weight</b>				
Width	mm	600		
Depth	mm	626		
Height	mm	1500		
Ceiling height	mm	1670 <sup>2</sup>		
Weight	kg	101	111	80
Part No.		081139	081140	081141

<sup>1</sup> At incoming temperature 10 °C and a domestic water flow of 0.25 l/s.

<sup>2</sup> Med fötterna avmonterade blir reshöjden ca. 1650 mm.

VPB S300		Copper	Enamel	Stainless
<b>Heating medium circuit</b>				
Max pressure in the heating medium circuit	bar/MPa	0.3 (3)		
<b>Pipe connections</b>				
Hot water ext Ø	mm	22		
Cold water ext Ø	mm	22		
Hot water circulation ext Ø	mm	15		
Docking ext Ø	mm	22		
Max operating temperature	°C	85		
Opening pressure, safety valve	MPa (bar)	1.0 (10)		
Heating time (10°C to 50°C) 8 kW charge power	h	1.5		
Equivalent amount of hot water (40 °C) <sup>1</sup>	litre	362	364	376
<b>Dimensions and weight</b>				
Width	mm	600		
Depth	mm	626		
Height	mm	1800		
Ceiling height	mm	1950 <sup>2</sup>		
Weight	kg	130	143	101
Part No.		081142	081144	081143

<sup>1</sup> At incoming temperature 10 °C and a domestic water flow of 0.5 l/s.

<sup>2</sup> Med fötterna avmonterade blir reshöjden ca. 1930 mm.

## Energy labelling

Supplier	NIBE		
Model	VPB S200 Koppar/Emalj/Rostfritt		VPB S300 Koppar/Emalj/Rostfritt
Efficiency class <sup>1</sup>	<b>C</b>		<b>C</b>
Heat loss	W	66	88
Volume	l	178 / 178 / 176	278 / 274 / 282

<sup>1</sup> Scale for the product's efficiency class A+ to F.



# Sustainable energy solutions since 1952

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NIBE has been manufacturing energy-efficient and sustainable climate solutions for your home for 70 years. It all began in Markaryd, in the southern Swedish province of Småland, and we recognise our Nordic heritage by utilising the power of nature. We combine renewable energy with smart technology to offer efficient solutions, allowing us to work together to create a more sustainable future.

Regardless of whether it is a chilly winter's day or a warm afternoon in the summer sun, we need a balanced indoor climate that allows us to enjoy a comfortable life, whatever the weather. Our extensive range of products supply your home with cooling, heating, ventilation and hot water, making it possible for you to create a pleasant indoor climate with little impact on the environment.

NIBE Energy Systems  
Box 14, SE-285 21 Markaryd  
nibe.se

**NIBE**

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