

## NIBE™ VVM 300 Intelligent hot water



### Features of NIBE™ VVM 300

**The immersion heater has a maximum output of 6 kW, with the possibility of lower settings.**

**Water volume 280 litres, of which 155 litres is hot tap water.**

**The hot water heater has a copper lining to protect against corrosion.**

**Climate controlled automatic bypass that takes the outdoor temperature into consideration.**

**Unique control system for maximum energy optimisation.**

**Self regulating speed controlled charge pump.**

**Load monitor as standard.**

**Prepared for pool heating.**

**Prepared for control of two heating systems.**

### NIBE VVM 300

NIBE VVM 300 is an electric boiler designed for houses with water borne heating. It consists of a double jacketed pressure vessel, immersion heater and intelligent controls. VVM 300 is designed for connection and communication with outdoor heat pump NIBE F2015 of 6 kW, 8 kW and 11 kW.

VVM 300 is equipped with an intelligent control. This makes for easy operation at the same time as always enabling the electric boiler to run as efficiently as possible. The control also manages the automatic bypass and circulation pumps. Current temperatures and set values can be shown on the display.

The insulation consists of moulded, freon-free polyurethane which is equivalent to approximately 70 mm mineral wool.

The outer casing is of white powder coated steel plate. The upper and lower front covers are attached by catches to facilitate removal.

# Technical specifications

## NIBE™ VVM 300

| Type   | NIBE VVM 300       |                           |
|--|--------------------|---------------------------|
| Height (excl. foot: 15 – 40 mm)                |                    | 1945mm                    |
| Required ceiling height                        | (mm)               | 2150                      |
| Width  | (mm)               | 600                       |
| Depth  | (mm)               | 615                       |
| Weight (empty / full)                          | (kg)               | 160 / 446                 |
| Volume total                                   | (litres)           | 280                       |
| Volume double jacket                           | (litres)           | 125                       |
| Volume, hot water heater                       | (litres)           | 155                       |
| Volume, expansion vessel                       | (litres)           | 12                        |
| Supply voltage                                 | 230 V~ 1 pahse + N |                           |
| Output immersion heater                        | (kW)               | 6                         |
| Supplied output immersion heater               | (kW)               | 9.0                       |
| Rated output, circulation pump                 | (W)                | 45/75/110 (adjustable)    |
| Rated output, charge pump                      | (W)                | 6 - 70 (speed controlled) |
| Enclosure class                                | IP21               |                           |
| Design pressure, hot water heater              | (MPa)              | 1.0 (10 bar)              |
| Cut-off pressure, hot water heater             | (MPa)              | 0.9 (9 bar)               |
| Max permitted pressure in double jacket volume | (MPa)              | 0.25 (2.5 bar)            |
| Design pressure in double jacket volume        | (MPa)              | 0.25 (2.5 bar)            |
| Pre-pressure expansion vessel                  | (bar)              | 0.5                       |
| Adjustable max boiler temperature              | °C                 | 55 - 80                   |

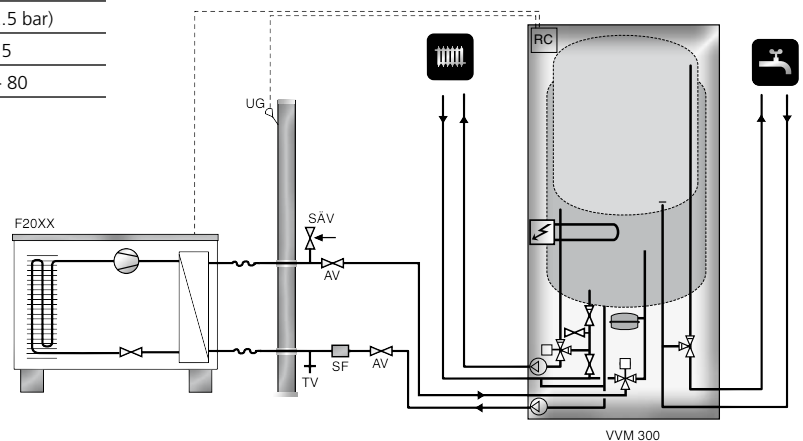
### Docking options

NIBE VVM 300 can be connected in several ways. VVM 300, together with NIBE F2015, creates a complete heating and hot water unit. VVM 300 is equipped with a control box that currently makes it the most economical operator, regarding both for the integrated immersion heater (max 6 kW) and compressor operation in NIBE F2015.

VVM 300 comes complete with an automatic by-pass, three way valve, circulation pumps, and safety equipment. VVM is designed for simple connection to NIBE F2015.

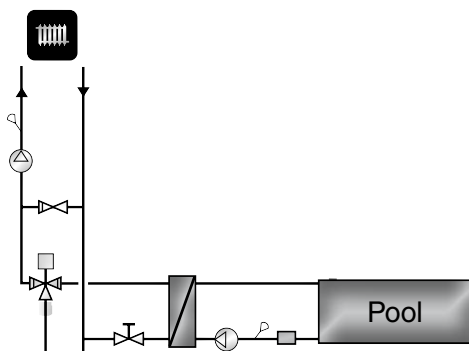
VVM 300 controls NIBE F2015, which runs with floating condensation towards the heating system.

If NIBE F2015 cannot meet the heating requirement, additional heat is shunted in from VVM 300. When the outside temperature drops below the set stop temperature VVM 300 engages and takes over the heating.



VVM 300 docked with pool.

The installation can be supplemented with accessory POOL 20, to provide pool heating.



VVM 300 with extra shunt.

The unit can be supplemented with accessory ESV 20 for control of two heating systems at different temperatures, e.g. under floor heating and radiator system.

