



VBR Water duct heaters

Duct heaters with rectangular connections and hot water as energy medium

- Rectangular duct installation horizontally or vertically
- Corrosion protected casing
- Air tightness class C
- Removable access panel for inspection and cleaning

[Find more details in our online catalogue](#)

Duct installation

The VBR water heating battery is designed for standard **rectangular ducts** and can be installed by using screws or guide connections in **horizontal** or **vertical** position with an optional direction of airflow.

High air tightness

VBR duct heaters meet **air tightness class C** as per EN 15727, which ensures that the heated air reaches its destination and **does not leak out** of the ventilation system that saves both energy and money.

Robust design

Casing of VBR made of **Zinc Magnesium-coated** sheet steel (ZM 200) to provide **high corrosion protection**.

Easy maintenance

The duct heater is also equipped with nipples for **draining** and **venting** as well as an **internally threaded connection** for installation of antifreeze sensors.

Application: The VBR water heating battery is designed to use hot water as an energy medium and is used to heat up the ventilation air in a ventilation system with rectangular ducts.

Design: Casing made of Zinc Magnesium-coated sheet steel, ZM 200. Coil with copper pipes and pipe connections as well as aluminium fins. Duct connections are fitted with standard 20 mm flanges. VBR duct heaters meet air tightness class C as per EN 15727. The VBR duct heater is also equipped with nipples for draining and venting as well as an internally threaded connection for installation of antifreeze sensors.

Installation: Can be installed in a horizontal or a vertical duct with the air flow in any direction. It is also designed to be fixed to the rectangular duct system with screws or guide connections. If the VBR water heating battery is being used in cold conditions, then it should be fitted with a frost protection device with a sensor to reduce the risk of damage from freezing.

Operating Data: Maximum operating temperature of 150 °C and a maximum operating pressure of 1,0 MPa (10Bar). All the coils are pressurised and leak tested.

Control: Unit capacity can be controller on demand by using recommended accessories - controllers, various sensors, vavles and actuators to provide regulation of the room or supply air temperature.

Maintenance: The water heating battery is fitted with a removable cover to facilitate easy cleaning and maintenance. The heat exchanger must be cleaned regularly in order to retain the best performance from the heater. Cleaning is facilitated by using a mild detergent. An effective filter is recommended in the system to reduce maintenance work.

Technical parameters

Dimensions and weights

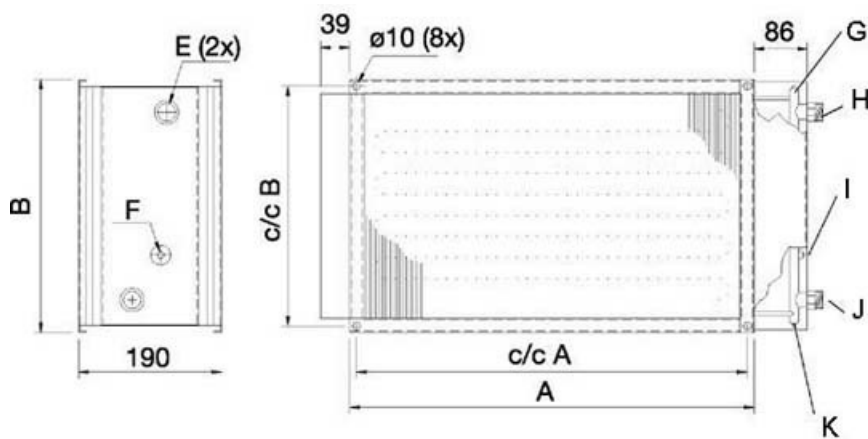
| | | |
|--|-----------|----|
| Duct dimension, inlet (height x width) | 400 x 500 | mm |
| Weight | 11.6 | kg |

Others

| | |
|----------------------|--------------------|
| Duct cooler/heater | Heater coil, water |
| Duct connection type | Rectangular |

Performance

Dimension



F= Thread G 1/4

G= Airing

H= Water out

I= Connection for immersion sensor

J= Water in

K= Draining

| | A | c/c A | B | c/c B | E |
|--------------|------|-------|-----|-------|--------|
| VBR 40-20-2 | 438 | 420 | 238 | 220 | R 3/4" |
| VBR 50-25-2 | 538 | 520 | 288 | 270 | R 3/4" |
| VBR 50-30-2 | 538 | 520 | 338 | 320 | R 3/4" |
| VBR 50-40-2 | 538 | 520 | 438 | 420 | R 3/4" |
| VBR 60-30-2 | 638 | 620 | 338 | 320 | R 3/4" |
| VBR 60-35-2 | 638 | 620 | 388 | 370 | R 3/4" |
| VBR 70-40-2 | 738 | 720 | 438 | 420 | R 1" |
| VBR 80-40-2 | 838 | 820 | 438 | 420 | R 1" |
| VBR 80-50-2 | 838 | 820 | 538 | 520 | R 1" |
| VBR 100-50-2 | 1038 | 1020 | 538 | 520 | R 1" |

| | A | c/c A | B | c/c B | E |
|-------------|-----|-------|-----|-------|--------|
| VBR 40-20-4 | 438 | 420 | 238 | 220 | R 3/4" |
| VBR 50-25-4 | 538 | 520 | 288 | 270 | R 3/4" |
| VBR 50-30-4 | 538 | 520 | 338 | 320 | R 1" |
| VBR 50-40-4 | 538 | 520 | 438 | 420 | R 1" |
| VBR 60-30-4 | 638 | 620 | 338 | 320 | R 1" |
| VBR 60-35-4 | 638 | 620 | 388 | 370 | R 1" |

| | A | c/c A | B | c/c B | E |
|--------------|------|-------|-----|-------|----------|
| VBR 70-40-3 | 738 | 720 | 438 | 420 | R 1" |
| VBR 80-50-3 | 838 | 820 | 538 | 520 | R 1" |
| VBR 100-50-3 | 1038 | 1020 | 538 | 520 | R 1" |
| VBR 120-60-3 | 1238 | 1220 | 638 | 620 | R 1 1/4" |

Accessories

- AQUA 24TF Heat Regulator (5136)
- TG-A130 Surface sensor 0-30°C (5159)
- RVAZ4 24A Actuator 0-10V (9862)
- TG-D1/PT1000 Immersion sensor (6773)
- ZTV 20-4,0 2-way valve (9826)
- TG-A1/PT1000 Surface sensor (7284)
- TG-K330 Duct Sensor 0-30°C (5160)
- RVAZ4-24 Actuator 3points (9798)
- ZTR 20-4,0 valve 3-way (9678)

Documents

- VBR IMO_172010.PDF
- EU Conformity_decl. PGK, VBR, DXRE(D), VBC, CWK.pdf