

# BO Vesta R

Compact air handling unit  
with a rotary heat exchanger



## BO Vesta R

The BO VESTA R air handling unit is a compact unit equipped with a rotary heat exchanger. The product line includes 4 sizes with airflow capacities ranging from 500 to 5,000 m<sup>3</sup>/h.

The unit is designed for indoor installation in a floor-standing configuration. Its compact dimensions allow installation in confined spaces. The unit is equipped with top connections for flexible ventilation ducts.

As standard, the unit is delivered as a complete, ready-to-operate system. Thanks to its self-supporting design, all essential components have been integrated into the compact casing, including the power and control panel, complete internal wiring operating in a Plug & Play system, and manufacturer-supplied controls.



**Compact**  
unit



**Rotary**  
heat exchanger



**Indoor**  
installation



**Self-supporting**  
design



**Floor-standing**  
unit



**System**  
**Plug&Play**



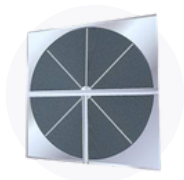
size **4**



airflow  
capacity

**500 · 5 000 m<sup>3</sup>/h**

# Elementy urządzenia



Rotary heat exchanger



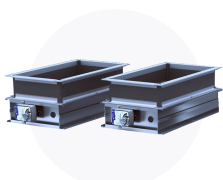
Energy-efficient EC fans (IE4)



Panel filters



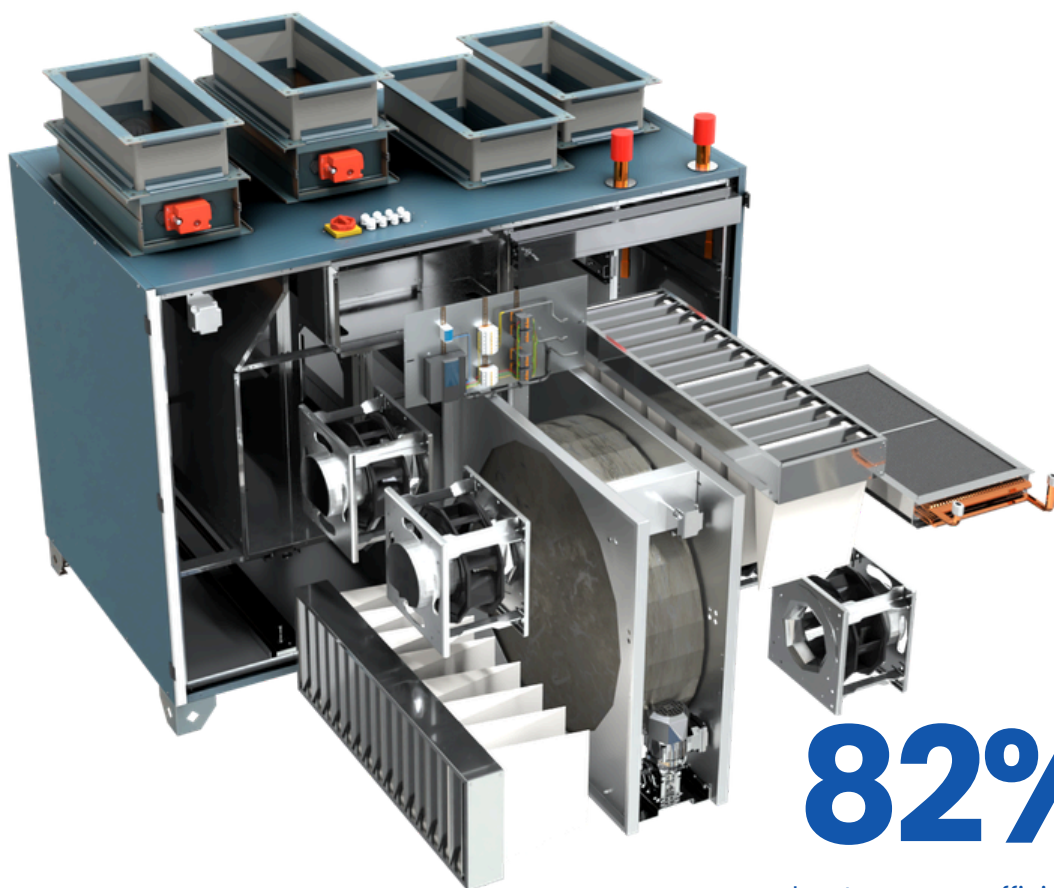
PTC electric or water heater



Flexible ducts from above



Full internal wiring Plug & Play



# 82%

heat recovery efficiency  
thanks to the use of a **rotary**  
heat exchanger

# Basic information



## Casing

- The unit is made using self-supporting technology without aluminum profiles
- The external panels of the air handling unit are made of Magnelis ZM310 coated steel sheet; the internal panels are made of galvanized steel sheet
- Indoor version
- Ventilation duct and electrical connections from the top of the unit
- 50 mm thick unit insulation



## Heat recovery

- Rotary heat exchanger
- Heat recovery efficiency up to 82%



## Fans

- High-efficiency EC motors
- Motor operation within the optimum speed range
- Reduced heat emission



## Heater

- Hot water coil
- Connection spigots flush with the internal surface of the unit casing, ensuring compact dimensions and transport safety
- Compact dimensions in relation to heating capacity
- Electric PTC heater (optional)



## Filters

- ISO Coarse >65% (G4)
- ISO ePM10 50% (M5)
- ISO ePM1 70% (F7)



## Automation

- Power and control panel integrated with the unit
- Unit cooperation with peripheral devices
- Plug & Play controls with internal wiring

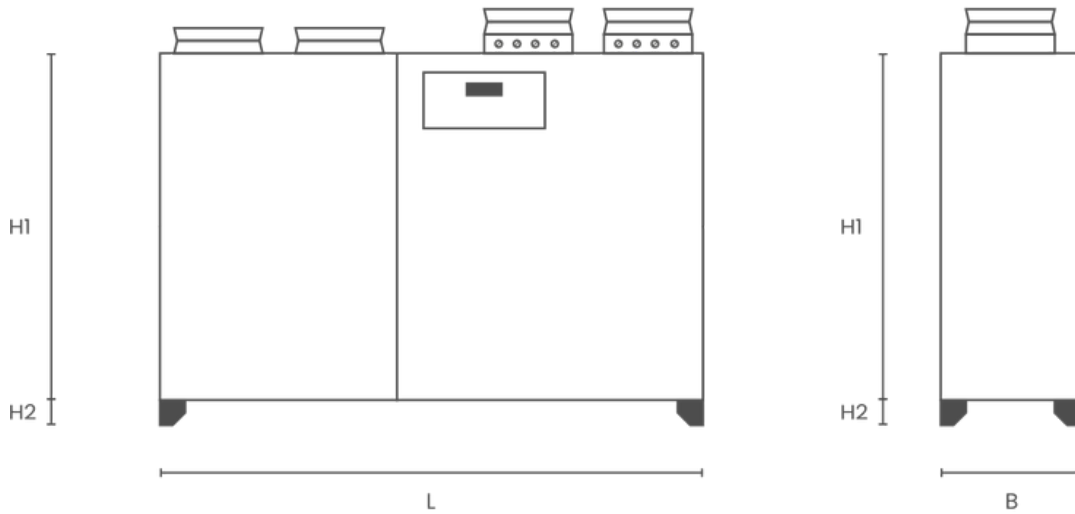


## Additional sections

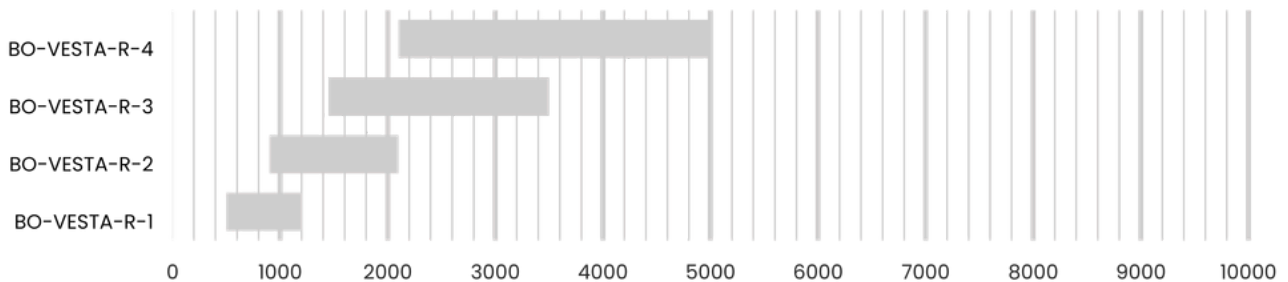
- In-duct water / DX cooling coil section



# Technical data



| unit size                          |                               |        | R-1         | R-2                                                               | R-3             | R-4       |
|------------------------------------|-------------------------------|--------|-------------|-------------------------------------------------------------------|-----------------|-----------|
| airflow range                      | min.                          | [m³/h] | 500         | 900                                                               | 1450            | 2100      |
|                                    | max.                          |        | 1200        | 2100                                                              | 3500            | 5000      |
| available external static pressure |                               | [Pa]   | 300         | 300                                                               | 400             | 400       |
| heat recovery efficiency           |                               | [%]    | 81,1        | 80,8                                                              | 80,3            | 80,1      |
| weight                             |                               | [kg]   | 183         | 267                                                               | 360             | 439       |
| dimensions                         | L                             | [mm]   | 1 500       | 1 700                                                             | 1 800           | 2 050     |
|                                    | B                             | [mm]   | 750         | 900                                                               | 1 100           | 1 200     |
|                                    | H1                            | [mm]   | 900         | 1 100                                                             | 1 250           | 1 400     |
|                                    | H2                            | [mm]   | 100         | 100                                                               | 100             | 100       |
| insulation                         |                               | [mm]   | 50          |                                                                   |                 |           |
| connection size                    |                               | [mm]   | 300x200     | 400x300                                                           | 600x300         | 800x400   |
| power consumption                  | fan motor power               | [kW]   | 0,17/0,5    | 0,5/0,78                                                          | 0,78/0,5/0,78   | 0,78/1,35 |
|                                    | maximum electric heater power | [kW]   | 6           | 12                                                                | 21              | 27        |
|                                    | maximum water heater capacity | [kW]   | 3,8         | 7                                                                 | 10,3            | 15,5      |
| maximum motor current              |                               | [A]    | 2x1,7/2x2,5 | 2x2,5/2x3,9                                                       | 2x4/4x2,5/4x3,9 | 4x4/4x6,7 |
| filters                            |                               | [V,Hz] | 3~400, 50   |                                                                   |                 |           |
| unit size                          |                               |        |             | ISO Coarse>65% (G4) ,<br>ISO ePM10>50% (M5),<br>ISO ePM1>70% (F7) |                 |           |



# Air tailored to **your** needs



+48 (58) 629 65 65



export@vbw.pl



ul. Chwaszczyńska 133D  
81-571 Gdynia



[www.vbw.pl](http://www.vbw.pl)