



...more than **air**



# BO VESTA<sup>2</sup> H

**COMPACT UNIT**  
WITH COUNTER FLOW HEAT EXCHANGER

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

# BO VESTA<sup>2</sup> H

## Basic information

The BO VESTA H air handling unit is a compact supply air and exhaust air device with a high-efficiency, counterflow heat exchanger.

The product is available in 5 sizes covering the airflow range from 300 to 6000 m<sup>3</sup>/h.

The BO VESTA H air handling unit is designed for small objects. The air handling unit has a self-supporting construction and the duct connection on the top which saves floor area. AHU-s configuration is available in left and right version. There is possibility to make the device in a swimming pool executions and with an integrated heat pump.

The BO VESTA H air handling unit is delivered as complete device, equipped with full automatic control system with internal wiring, operating in the Plug&Play system. This solution ensures that the customer receives a device that is ready to work immediately after initial configuration, connecting the necessary external accessories and supply voltage.

# 5

BASIC SIZES

up to  
**87%** EFFICIENCY  
HEAT RECOVERY

AIR FLOW RANGE [m<sup>3</sup>/h]  
**300 – 6000**



Counter flow heat exchanger



Indoor execution



Self-supporting construction



Compact dimensions



Energy saving device



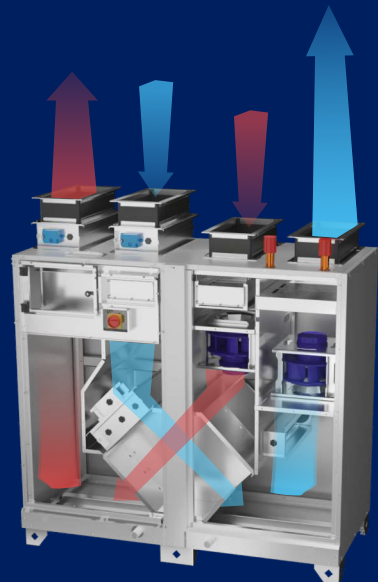
Plug&Play automation (standard)



Integrated heat pump (optional in size 2-4)



Swimming pool execution (optional in size 1-4)



# Technical Specifications

- 5 basic sizes
- Air flow range from 300 to 6000 m<sup>3</sup>/h
- Counter flow heat exchanger
- Heat recovery efficiency up to 87%
- Internal version (standing on legs)
- Panel filters:
  - ISO Coarse 65% (G4)
  - ISO ePM10 65% (M5)
  - ISO ePM1 50% (F7)
- Insulation - 50 mm (Glass mineral wool - reaction to fire A1 (non-flammable))
- Panels coated by the Magnelis ZM310
- Highly energy efficient EC fans (IE4)
- PTC electric heater / water heater
- Connection of ventilation ducts and electrics from the top of the device
- Power and control switchgear cabinet installed inside the AHU
- Plug&Play automationgear cabinet installed inside the AHU
- Plug&Play automation

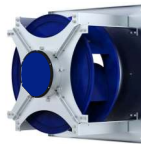
**Additional sections** (the device can be enriched with additional cooperating sections)

- Heat pump
- Reversible heat pump
- Recirculation
- Water/ freon cooling coil
- Swimming pool execution (sizes 1-4)
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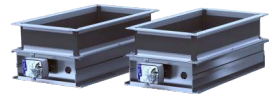
# Elements of the device



Counter flow heat exchanger



Highly energy efficient EC fans (IE4)



Duct connections (located on top of the device)



Panel filters



PTC electric heater or water heater



Plug&Play automation



Heat pump (option)

# Application



POOLS & SAUNAS



OFFICES & MEETING ROOMS



SCHOOLS & KINDERGARTENS

# Technical Data

SIZE OF UNIT			***MINI	H1	H2	H3	H4
AIR VOLUME		[m <sup>3</sup> /h]	300 - 500	500 - 1600	1300 - 2800	2800 - 4500	4500 - 6000
EXTERNAL STATIC PRESSURE		[Pa]	300	300	300	300	300
MAXIMUM HEAT RECOVERY EFFICIENCY		[%]	83,7	86,5	82,9	81	80,7
WEIGHT		[kg]	85	237	470	630	843
DIMENSIONS	L	[mm]	1100	1600	2050	2200	2300
	B	[mm]	550	750	950	1150	1300
	H	[mm]	600	1350	1600	1650	1850
INSULATION		[mm]			50		
COIL CONNECTIONS SIZE	b x h	[mm]	fi 200	450x200	600x300	800x400	1000x400
POWER CONSUMPTION	ENGINE POWER	[kw]	2x0,17	2x0,5/2x0,78	2x0,78/2x1,35	2x1,35/2x2,5	2x2,5/2x2,5
	POWER OF ELECTRIC HEATER (max.)	[kw]	3	12	18	24	27
	POWER OF WATER HEATER (max.)	[kw]	-	3,8	8,7	16,6	25
MAXIMUM SUPPLY FUN CURRENT		[A]	2x1,7	2x2,5/2x4	2x3,9/2x6,7	2x6,8/2x4	2x4/2x4
DEVICE POWER SUPPLY		[V~Hz]	3-400, 50	3-400, 50	3-400, 50	3-400, 50	3-400, 50
SOUND LEVEL		[dba]	37,4	50,9	50,6	54,9	55,5

## FILTERS

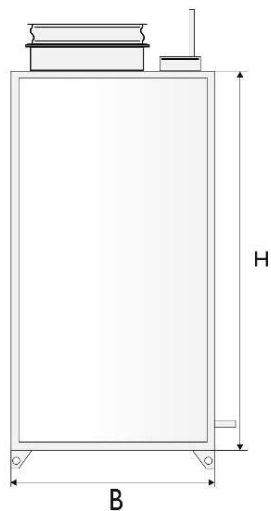
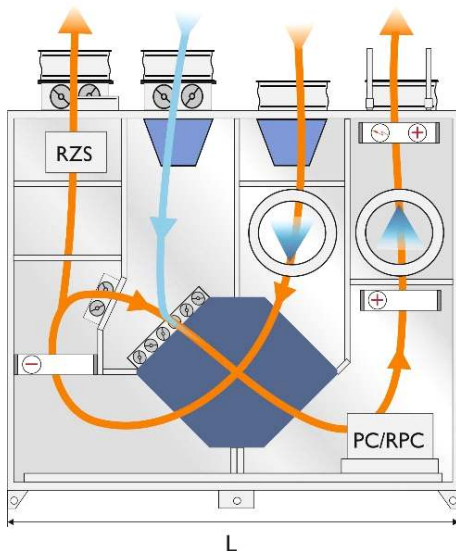
ISO Coarse+65% (G4), ISO ePM10+50% (M5), ISO ePM1+70% (F7)

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\*the manufacturer reserves the right to update the data and photos in the catalogue.  
\*photos presenting the offered product are for illustrative purposes only.

# Plug&Play System

The idea behind the control panels with the Plug&Play automation system is to produce and deliver to the customer a device ready for operation immediately after connecting the necessary external accessories and supply voltage.

Our offer includes the possibility of equipping the device with factory and proprietary automation systems. In this case, the devices have internal wiring and a power supply and control switchgear.

This solution ensures easy and quick commissioning of the device and immediate readiness to work on the site.

## Advantages Plug&Play system

- + Reduced assembly time and commissioning (cost reduction)
- + Commissioning of the control panel without interruption  
Factory configuration and full wiring guaranteed trouble-free operation
- + Electrical connection made and checked by qualified technicians
- + Certified cables, electrical terminals, certified boxes and cable connections



## PREMIUM+ Automation

Discover the full possibilities of the proprietary automation system



Full control over device



Optimization of work and incurred running costs



Access to the device 24/7 (Remote Service Center)



Ability to send Email & SMS notifications



Reminding about inspections



Device integration cooperating with exchanges



Individual graphics developed on projects building



Intelligent systems energy management



Internet compatibility access from anywhere in the world



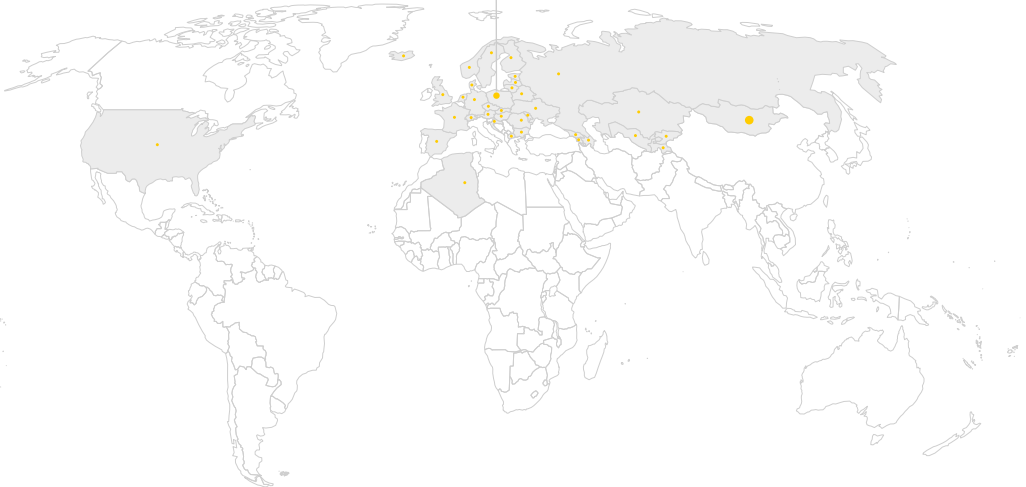
Smart Homes integrated systems smart home

\*additional options possible when selecting the device.

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