



BD

Sectional air handling unit
- outdoor



Tailored to you



Internal execution



Construction skeletal or self-supporting



High efficiency



Intelligent system automation



Individual device configuration





700 – 100 000



SIZES AVAILABLE
DEVICES

22



HEAT RECOVERY

Up to

93%



The BD air conditioning and ventilation unit is a top-class sectional device designed for outdoor installation. Sheathing elements and finishing elements protect the unit against weather conditions. The product line includes 22 basic sizes, covering the expenditure range from 700 to 100,000 m³/h.

The control panel uses two technological solutions regarding the housing structure, based on a frame structure or a self-supporting structure.

The sectional structure of the BD air handling unit allows for flexible selection and guarantees adaptation to individual needs and customer preferences. The product is offered in standard, swimming pool, hygienic and chemical-resistant versions. It is also possible to make the device with explosion-proof elements.

Technical information

- 22 basic sizes
- Efficiency from 700 to 100 000 m³/h
- External execution
- Standing device
- Frame or self-supporting structure
- Sectional construction
- Sheathing and finishing elements are made of sheet metal resistant to weather conditions and corrosion
- Equipped with a special roof (made of weather and corrosion resistant sheet metal)
- Equipped with an integrated air intake and air ejector
- Class filters G1-H14, carbon, electrostatic
- UV lamps
- Special version: swimming pool, hygienic, with EX elements, chemically resistant
- Heat recovery - recirculation, cross/rotary/counterflow/MHR exchanger, heat pipe, glycol recovery system
- Water/steam/glycol/electric heater
- The structure is prepared for integration with a gas heater
- Water/glycol/freon cooler
- Possibility to configure full automation with internal wiring
- Certificates and approvals: Eurovent, PZH, TÜV, ISO 9001
- Optional: Plug&Play System
- Custom made device – a product fully configurable to individual customer requirements

Application

- Industrial and production halls
- Sports and entertainment halls
- Large-scale commercial and service buildings
- Commercial buildings: office buildings, hotels
- Public institutions and facilities
- Recreational and sports centers



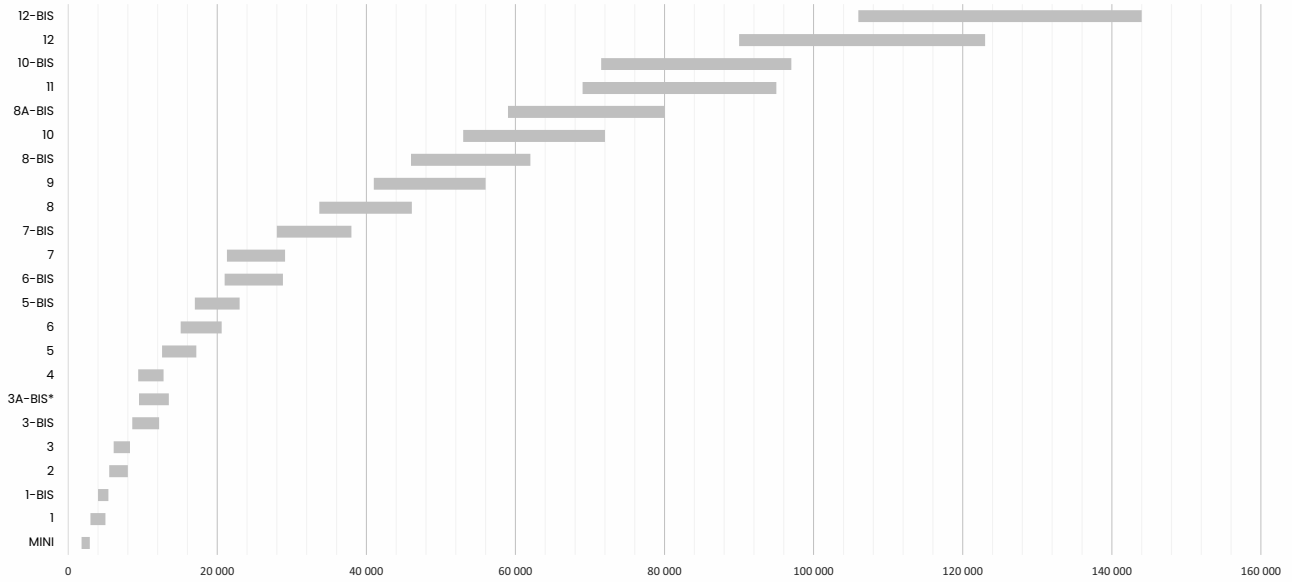
Size Table

DEVICE SIZE	EFFICIENCY		DIMENSIONS				
	[m ³ /h]		[mm]				
	min	max	B	H1	H2	H1	H2
MINI	700	1 800	640	-	-	490	980
1	1 000	3 000	690	640	1 280	600	1 200
1-BIS	2 600	4 000	740	740	1 480	700	1 400
2	3 000	5 500	1150	640	1 280	600	1 200
3	3 900	6 100	980	740	1 480	700	1 400
3-BIS	5 000	8 600	1400	740	1 480	700	1 400
3A-BIS*	5 500	9 500	1500	-	1 540	-	-
4	6 000	9 400	980	1050	2 100	1010	2 020
5	8 000	12 600	1290	1050	2 100	1010	-
6	9 600	15 100	1290	1250	2 500		
5-BIS	11 000	17 000	1580	1050	2 100		
6-BIS	13 200	21 000	1580	1250	2 500		
7	13 500	21 300	1580	1370	2 740		
7-BIS	18 000	28 000	1885	1370	2 740		
8	21 300	33 700	1885	1670	3 340		
9	26 000	41 000	1885	2020	4 040		
8-BIS	30 000	46 000	2400	1670	3 340		
10	34 000	53 000	2400	2020	4 040		
8A-BIS	38 000	59 000	3000	1670	3 340		
11	43 000	69 000	2400	2500	5 000		
10-BIS	46 000	71 500	3000	2020	4 040		
12	57 000	90 000	3000	2500	5 000		
12-BIS	68 000	106 000	3500	2500	5 000		

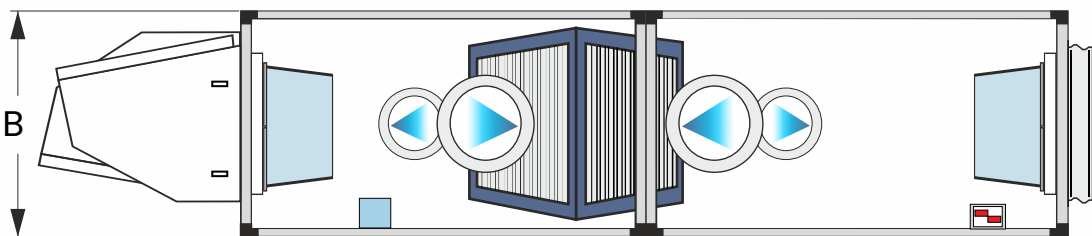
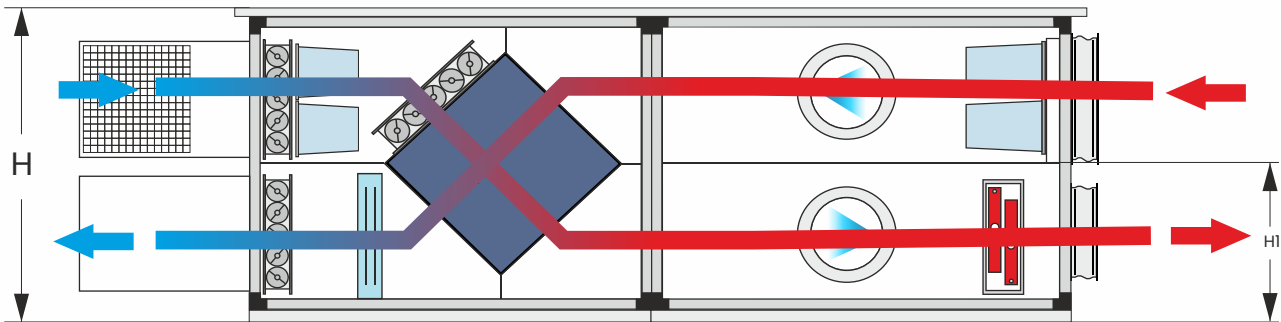
FRAMEWORK STRUCTURE

SELF-SUPPORTING STRUCTURE

Efficiency table



Technical drawing



*photos presenting the offered product are for illustrative purposes only.

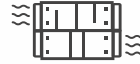
Due to the constant development of products, VBW Engineering sp. z o.o. reserves the right to change parameters and dimensions without prior notice.

Adjust the device to your needs



Efficiency device

Adjust the efficiency of the air handling unit to the individual requirements of the facility. Capacity up to 100,000 m³/h and more.



Size device

Adjust the size of the control panel and individual sections to the available space in the facility.



Sheathing device

Match the color, plating elements and finishing of the control panel according to the individual needs of the



Automation system

Get full control over your device and adjust your own automation system.

Flexible selection of functional sections



Exchanger rotary section



Exchanger cross section



Exchanger double-cross section



Exchanger section countercurrent / MHR (hexagonal)



Mixing section



Fan section



Heating section



Cooling section



Humidifier section



Damping section



Heat pumps system section



Reversible system section



Filter section



Glycol recovery system section



Heat pipes section

Special version



Swimming pool

for the environment with aggressive ones chemical compounds



Hygienic

for the environment moderately aggressive with frequent condensation



Chemical resistant

for the environment medium and highly corrosive



With EX elements

for the environment potentially at risk explosion

Make full use of the device's capabilities

Thanks to the proprietary automation of VBW Engineering



Our proprietary automation systems support modern "Smart Building" home solutions.

Such solutions mean that our customers receive a product over which they have full and easy control from anywhere in the world, ensuring their safety and peaceful sleep. Our specialists provide full support.

Starting with assembly and wiring between the automation elements and the power and control switchgear. They commission automation systems and make arrangements and activities related to cooperation with devices and elements of other installations.

Automation **PREMIUM+**

At the customer's request, we deliver devices with the PREMIUM+ automation system tailored to the individual needs of the client



Full control over device



Work optimization and incurred operating costs



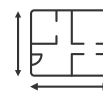
Availability to the device 24/7 (Remote Service Center)



Reminding about inspections



Device integration cooperating with switchboards



Individual graphics developed on projects building



Possibility to send notifications Email & SMS



Intelligent systems energy management



Smart Homes integrated systems Smart home



Internet compatibility access from anywhere on earth

*additional options available when selecting the device.

PLUG&PLAY System (option)



The idea of control panels with the Plug&Play automation system is to produce and deliver to the customer a device ready for operation, immediately after initial configuration, connection of the necessary external accessories and supply voltage. This solution is possible thanks to the use of internal, full cabling of the device and a switchboard with a controller installed directly on the control panel.



Advantages Plug&Play system

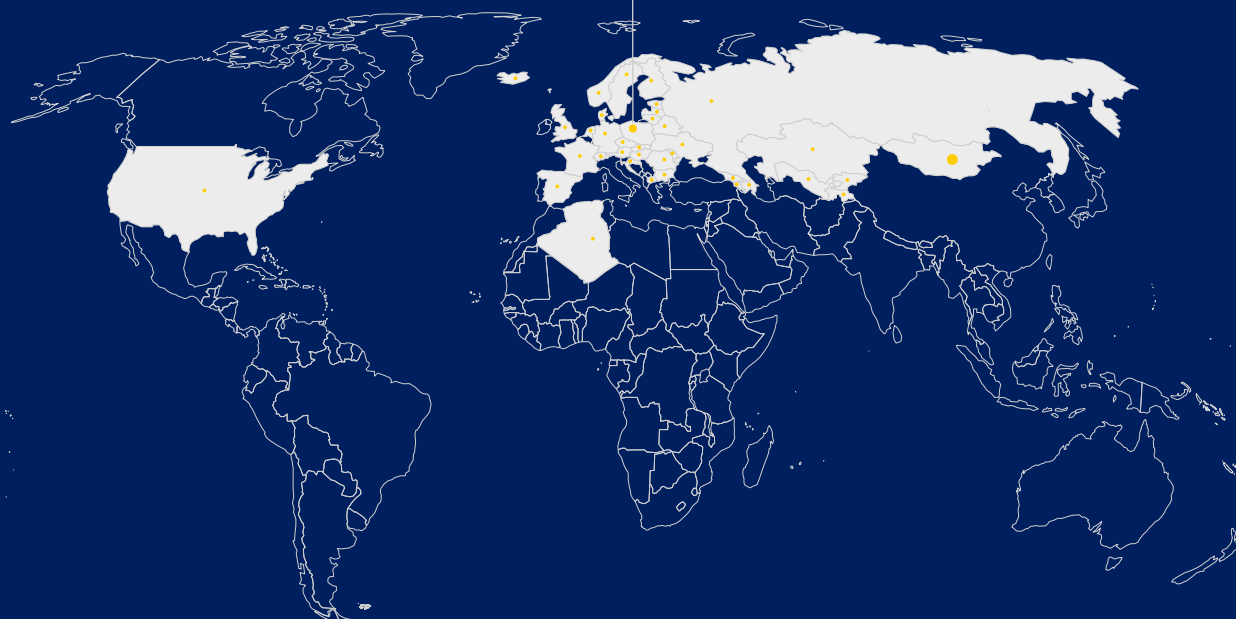
- + Reduced assembly and commissioning time (lowering costs).
- + Factory configuration and full cabling guarantees trouble-free operation of the device.
- + Electrical connection made and checked by qualified technicians
- + Certified cables, electrical terminals, certified boxes and cable connections



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