



...more than **air**



COMPACT **R**

COMPACT UNIT
WITH ROTARY HEAT EXCHANGER

www.vbw.pl

COMPACT R

General information

The COMPACT-R air handling unit is a compact supply air and exhaust air device with a rotary heat exchanger.

Air handling unit is adapted for indoor installation (BS version) and outdoor (BD version). AHU-s configuration is available in left and right version.

The product is available in 7 sizes covering the airflow range from 500 to 9500 m³/h.

The COMPACT-R air handling unit is dedicated to small ones and medium-sized facilities. The device is equipped with the highest class components and is designed to stay full functionality with reduced dimensions. Plus all of them functional sections of the device have been placed in one housing, which makes the dimensions of the air handling unit compact and facilitate its transport, installation and service.

The COMPACT-R air handling unit is delivered as complete device, equipped with full automatic power supply and control 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.

7

SIZE BASIC

up to
83% EFFICIENCY
HEAT RECOVERY

EFFICIENCY [m³/h]
500 - 9500



Rotary heat exchanger



Indoor/
outdoor unit



Self-supporting
construction



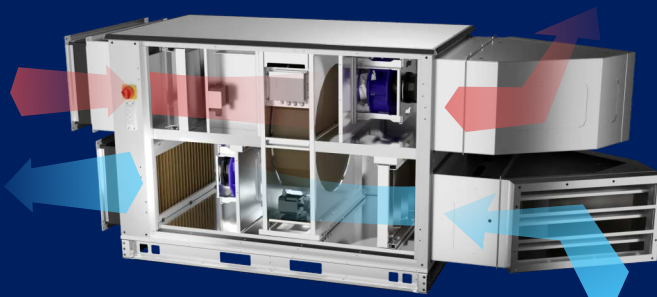
Energy efficient
device



Compact
dimensions



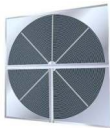
Plug&Play
automation
(standard)



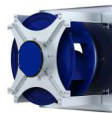
Technical Specifications

- 7 basic sizes
 - Air flow range from 500 to 9500 m³/h
 - Rotary heat exchanger
 - Heat recovery efficiency up to 83%
 - Internal (BS) or external (BD) execution
 - Outdoor version (BD) equipped with a special roof (made of sheet steel resistant to weather conditions and corrosion)
 - Outdoor version (BD) equipped with an integrated air intake and exhaust
 - Panel filters:
 - ISO ePM10 50% (M5)
 - ISO ePM1 70% (F7)
 - Insulation - 50mm (Glass mineral wool - reaction to fire A1 (non-combustible))
 - Panels coated by the Magnelis Zm310
 - Highly energy efficient EC fans (Ie4)
 - PTC electric heater / water heater
 - Power and control switchgear cabinet installed inside the AHU
 - Plug&Play automation
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- **Additional sections** (the device can be enriched with additional cooperating sections)
 - Water/ freon cooling coil
 - Humidifying system
 - Damper
 - Secondary filters

Elements of the device COMPACT-R



Rotary heat exchanger



Highly energy efficient EC fans (Ie4)



Panel filters



Double, flexible hinges



Integrated air intake and exhaust (in BD outdoor version)



PTC electric heater or water heater



Plug&Play automation

Application



OFFICES & MEETING ROOMS



SCHOOLS & UNIVERSITIES



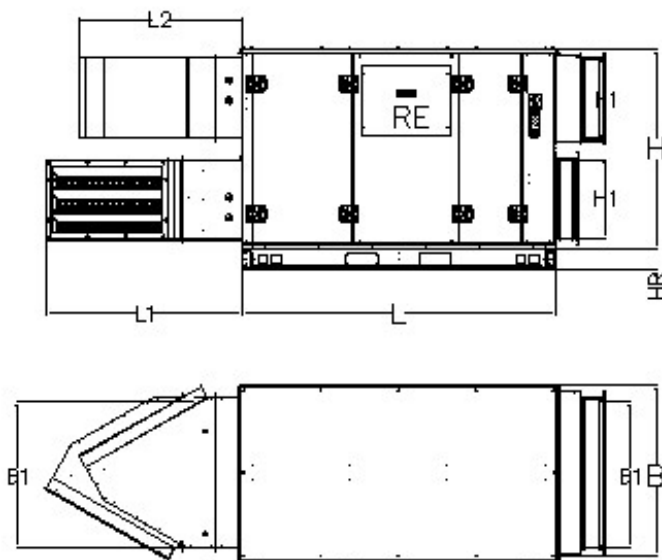
SHOPS & SHOPPING CENTERS

Technical data

SIZE OF UNITS		COMPACT-R-1	COMPACT-R-2	COMPACT-R-3	COMPACT-R-4	COMPACT-R-5	COMPACT-R-6	COMPACT-R-7	
AIR VOLUME	[m ³ /h]	500-1200	700-2000	1500-2400	2000-3500	3500-5000	5500-7500	7500-9500	
EXTERNAL STATIC PRESSURE	[Pa]	300/300	300/300	400/400	400/400	500/500	500/500	500/500	
MAXIMUM HEAT RECOVERY EFFICIENCY	[%]	82	82,6	81,3	80,2	81	79,8	79,3	
WEIGHT	[kg]	330	330	530	530	700	820	970	
DIMENSIONS	L	[mm]	1 500	1 550	1 550	1 650	1 850	1 950	2 000
	L ₁	[mm]	975	975	1 225	1 225	1 425	-	-
	L ₂	[mm]	675	675	925	925	1 150	-	-
	L ₃	[mm]	-	-	-	-	-	700	730
	B	[mm]	700	850	1 000	1 150	1 400	1 600	1 800
	H ₁	[mm]	850	1 000	1 080	1 230	1 440	1 640	1 840
	H ₂	[mm]	100	100	100	100	120	120	120
	INSULATION	[mm]				50			
COIL CONNECTIONS SIZE	[mm]	600x325	750x400	900x425	1050x500	1300x600	1500x700	1700x800	
POWER CONSUMPTION	ENGINE POWER	[kw]	0,17/0,5	0,5/0,78	0,78/0,78	0,78/1,35	1,35/2,4	2x1,35/2x2,5	2x2,5
	POWER OF ELECTRIC HEATER (max.)	[kw]	6	6	9	12	18	24	30
	POWER OF WATER HEATER (max.)	[kw]	11,8	18,2	25,5	29,9	47,2	63,4	78,8
MAXIMUM SUPPLY FUN CURRENT	[A]	1,7/2,5	2,5/4	3,9/4	3,9/6,7	6,7/9	2x6,7/2x4	2x4	
DEVICE POWER SUPPLY	[V,Hz]				3-400, 50				
SOUND LEVEL	[dBa]	47,8	52,6	51,3	57	55,4	60,7	66	

FILTERS

ISO #FM10-50% (M5)
ISO #FM7-70% (F7)



*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



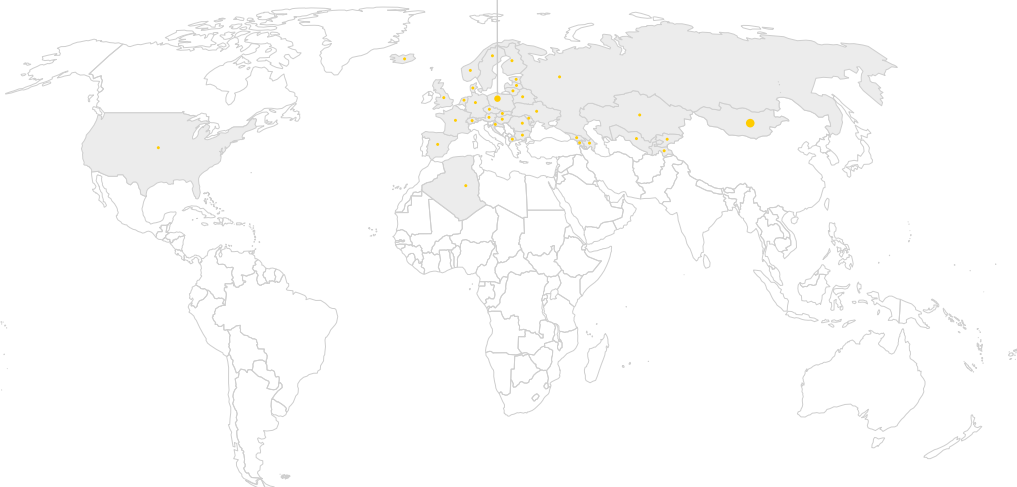
Smart Homes integrated systems smart home

*additional options possible when selecting the device.

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