



# COMPACT R

Compact device  
with rotary heat exchanger



## COMPACT R



Size

7

The COMPACT R air handling unit is a compact device equipped with a rotary heat exchanger.

The product line includes 7 basic sizes with air flow from 500 to 9500 m<sup>3</sup>/h. The air handling unit is designed for outdoor execution (BD version) and indoor execution (BS version).

The unit is delivered to the customer as a standard ready-to-use unit. With an innovative self-supporting design, we put all the necessary components in a small, compact case. There is a built-in power and control switchgear, full internal wiring (operating in Plug & Play system) and intuitive automation.



Air flow [m<sup>3</sup>/h]

500 – 9 500



Compact device



Rotary heat exchanger



Internal / External execution



Self-supporting construction



Standing device

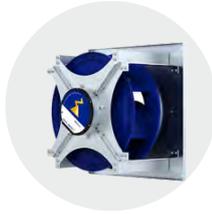


Plug&Play system

# Device components



Rotary heat exchanger



Energy-saving fans with EC motors (IE4)



Panel filters



PTC electric or water heater



Practical finishing elements



Convenient flexible connections



Possibility of external execution



**Plug & Play**

Fully internally wired, Plug & Play



# 83%

Heat recovery efficiency due to the rotary heat exchanger.

# Basic information



## Case

- The air handling unit is made in self-supporting technology without aluminum profiles
- The external covers of the air handling unit are made of coated sheet Magnelis ZM310, the internal ones are made of galvanized sheet
- Internal or external execution
- 50mm device insulation
- External version equipped with a special roof
- External version equipped with integrated air intake and exhaust



## Heat recovery

- Rotary heat exchanger
- Heat recovery efficiency up to 83%



## Fans

- Highly efficient EC motors
- Engine operation in the optimal speed range
- Reduced heat generation



## Heater

- Water heater
- Connections flush with the inner surface of the unit cover ensuring compactness and safety during transport
- Small size in proportion to heating power
- PTC electric heater (option)



## Filters

- ISO ePM10 50% (M5)
- ISO ePM1 70% (F7)



## Automation

- Power and control switchboard integrated with the device
- Cooperation of the device with external elements
- Plug&Play automation with internal wiring



## Additional sections

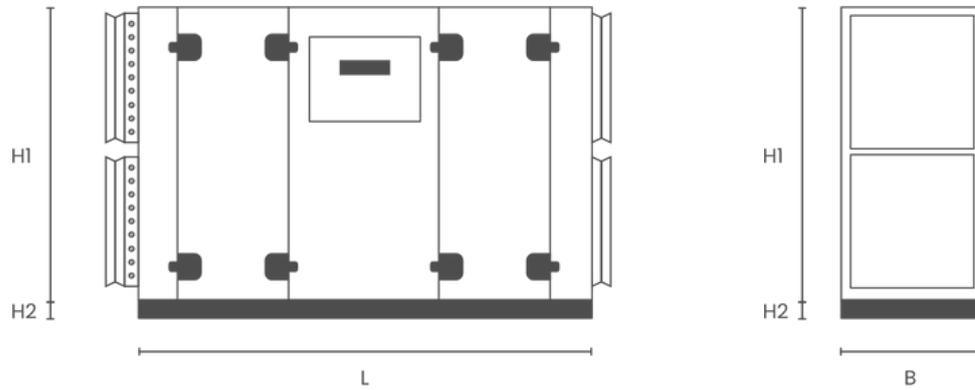
*(the device can be expanded with additional cooperating sections)*

- Recirculation section
- Water/freon cooler section
- Humidification section
- Damping section
- Secondary filtration section



**Plug&Play**

# Technical data



Size		R-1	R-2	R-3	R-4	R-5	R-6	R-7	
<b>Air flow</b>	min.	500	700	1500	2000	3500	5500	7500	
	max.	1200	2000	2400	3500	5500	7500	9500	
<b>External static pressure</b>	[Pa]	300/300	300/300	400/400	400/400	500/500	500/500	500/500	
<b>Max. heat recovery efficiency</b>	[%]	82	82,6	81,3	80,2	81	79,8	79,3	
<b>Weight</b>	[kg]	270	270	430	430	580	710	840	
<b>Dimensions</b>	L	[mm]	1500	1550	1550	1650	1850	1950	2000
	B	[mm]	700	850	1000	1150	1400	1600	1800
	H1	[mm]	850	1000	1080	1230	1440	1640	1840
	H2	[mm]	100	100	100	100	120	120	120
<b>Insulation thickness</b>	[mm]	50							
<b>Connections size</b>	[mm]	600x300	750x400	900x400	1050x500	1300x600	1500x700	1700x800	
<b>Energy consumption</b>	engine power	[kW]	0,17/0,5	0,5/0,78	0,78	0,78/1,35	1,35/2,4	2x1,35/2x2,5	2x2,5
	max. power of electric heater	[kW]	6	15	18	24	30	39	39
	max. power of water heater	[kW]	11,8	18,2	25,5	29,9	47,2	63,4	78,8
<b>Motor power (max.)</b>	[A]	1,7/2,5	2,5/4	3,9/4	3,9/6,7	6,7/9	2x6,7/2x4	2x4	
<b>Voltage</b>	[V,Hz]	3~400, 50							

## Filters

ISO ePM10>50% (M5), ISO ePM1>70% (F7)

