

COMPACT H

Compact device
with counterflow heat exchanger



COMPACT H



Size

7

The COMPACT H air handling unit is a compact device equipped with a high-efficiency counterflow heat exchanger.

The product line includes 7 basic sizes with air flow from 200 to 9000 m³/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 [m³/h]

200 – 9 000



Compact
device



Counterflow
heat exchanger



Internal / External
execution



Self-supporting
construction

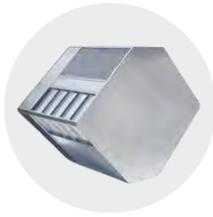


Standing
device

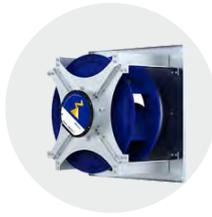


Plug&Play
system

Device components



Highly efficient counterflow heat exchanger



Energy-saving fans with EC motors (IE4)



Panel filters



PTC electric or water heater



Practical finishing elements



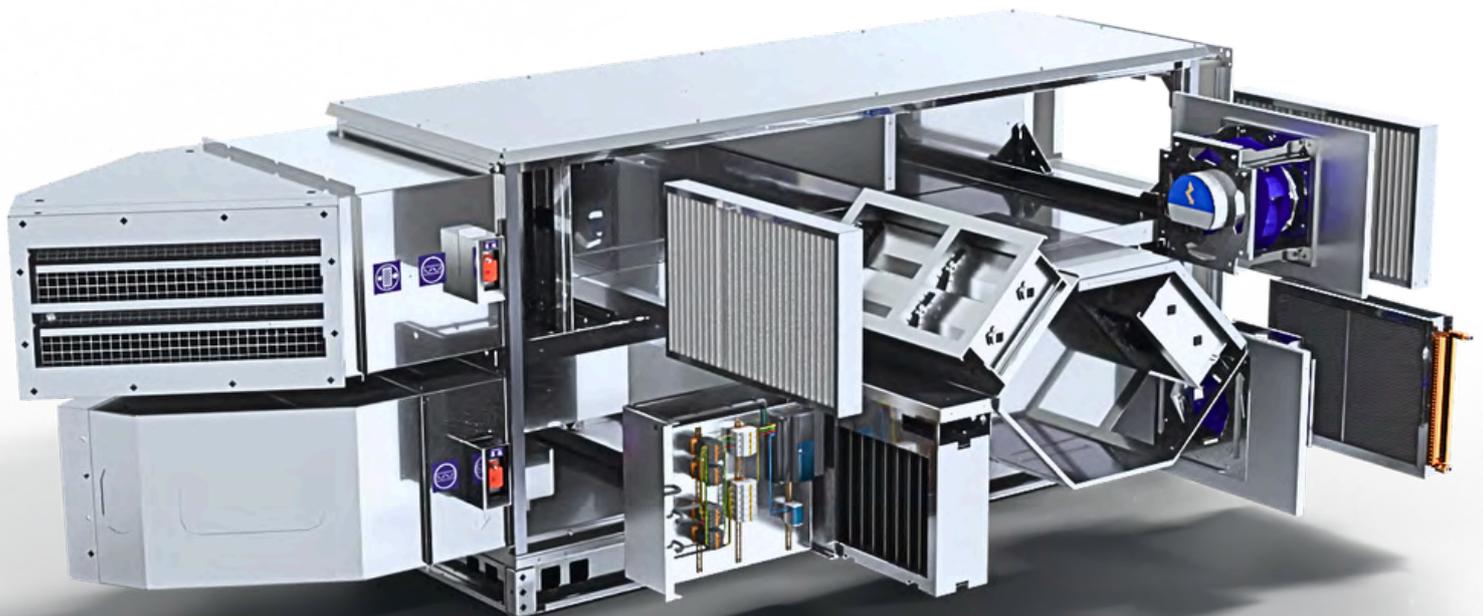
Convenient flexible connections



Possibility of external execution



Fully internally wired, Plug & Play



87%

Heat recovery efficiency due to the counter-flow 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

- Counterflow heat exchanger
- Heat recovery efficiency up to 87%



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

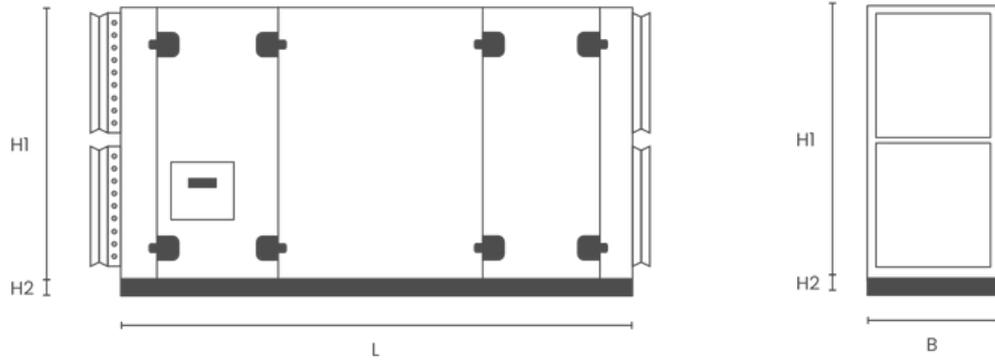
(the device can be expanded with additional cooperating sections)

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



Plug&Play

Technical data



Size		H-1	H-2	H-3	H-4	H-5	H-6	H-7	
Air flow	min.	200	600	1200	2000	2500	4000	5000	
	max.	700	1700	2700	4300	5150	7500	9000	
External static pressure	[Pa]	200/200	300/300	400/400	400/400	500/500	500/500	500/500	
Max. heat recovery efficiency	[%]	86	86,3	85,7	82	81,8	81,5	83	
Weight	[kg]	250	350	485	540	625	692	806	
Dimensions	L	[mm]	1750	1950	1950	2 450	2 450	2 600	2 850
	B	[mm]	600	800	1 200	1 200	1 400	1 600	1 600
	H1	[mm]	800	1 000	1 000	1 200	1 200	1 410	1 800
	H2	[mm]	100	100	100	100	120	120	120
Insulation thickness	[mm]	50							
Connections size	[mm]	500x300	700x400	1100x400	1100x500	1300x500	1500x600	1500x800	
Energy consumption	engine power	[kW]	0,17	0,5/0,78	0,78	1,35/2,5	2,5/3,9	3,9/5,6	3,5/5,4
	max. power of electric heater	[kW]	6	15	18	24	30	39	39
	max. power of water heater	[kW]	7,4	16	27	41	51	76	84
Motor power (max.)	[A]	1,7/1,7	2,5/4	3,9/4	6,7/4	4/6,2	6,2/9	5,6/8,6	
Voltage	[V,Hz]	3~400, 50							
Filters	ISO ePM10>50% (M5), ISO ePM1>70% (F7)								

