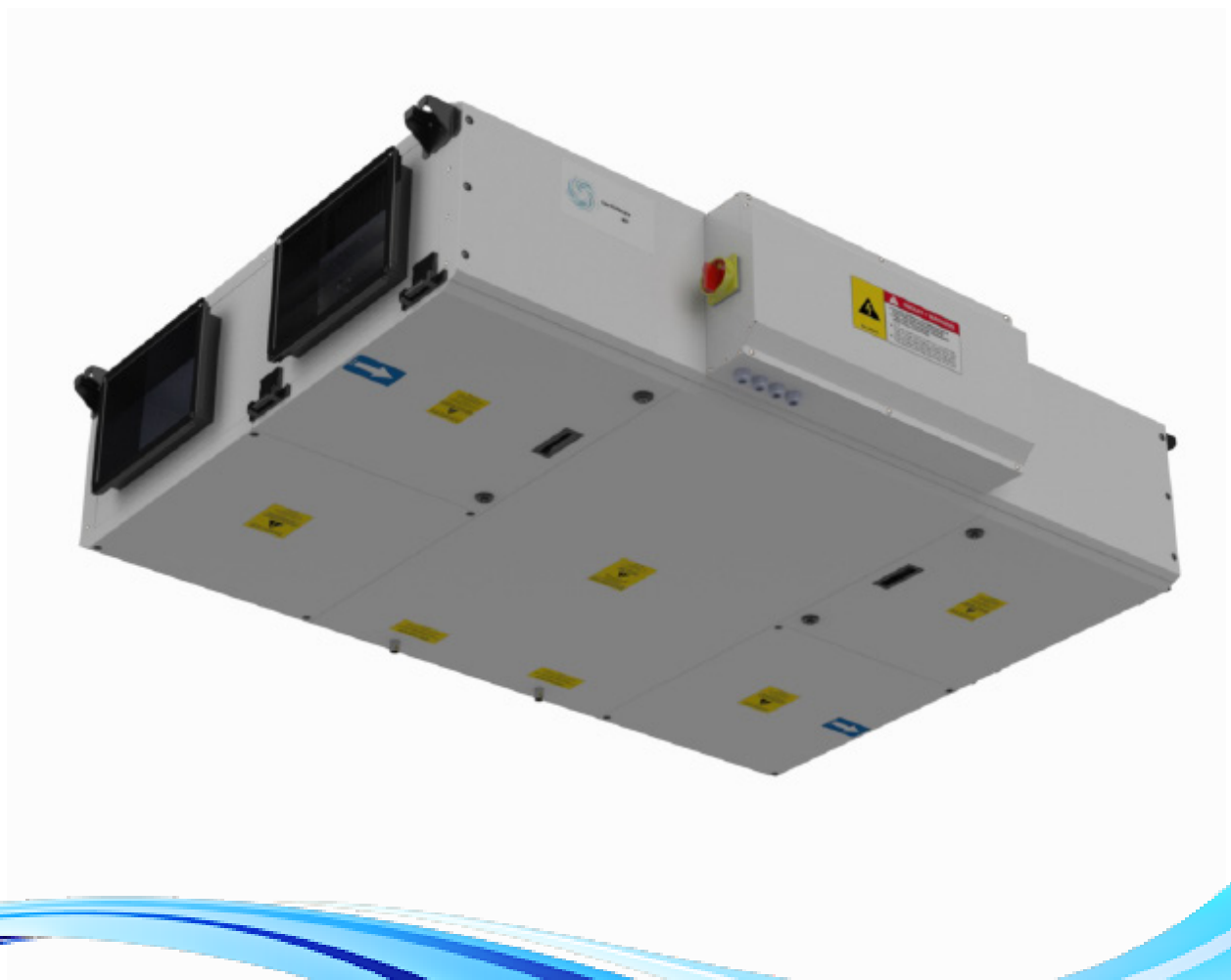


CHR-CF

High Efficiency
Heat Recovery Units



confidence
air



www.confidenceair.com

About Confidenceair



Confidenceair was established with the aim of producing suitable solutions for all kinds of ventilation and filtration demands with its young, dynamic staff and service understanding based on customer satisfaction.

It is ready to be your solution partner with the heat recovery devices, ventilation equipment and filtration systems it produces.

With its experience in the sector, it aims to be among the pioneers of the sector by providing solutions to customer expectations with accurate, timely and quality products.





CHR-CF Heat Recovery Units are used to increase energy efficiency in Residences, Hotels, Shopping Malls, Offices, and all closed areas.



CHR-CF Unit

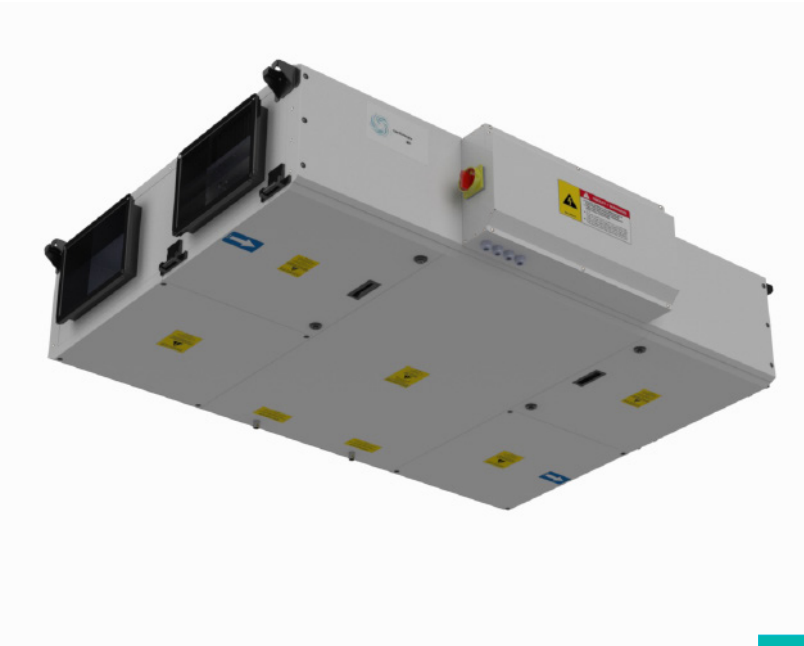
Heat recovery units in the Confidenceair CHR-CF series meet air exchange and energy saving requirements in a wide variety of applications.

The CHR-CFseries combines a high level of comfort in the space used with great energy savings.

CHR-CF Series Heat recovery units, 500 m3/h - 3000 m3/h

It has 5 different models with air flow.

Ceiling type heat recovery units are suitable for use in civil and commercial buildings, offices, shops, bars and restaurants.

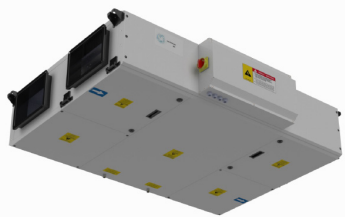


- Wide range air volume from 500m3/h to 3000m3/h
- High efficiency brushless EC Fans
- High efficiency counterflow heat exchanger
- Auto summer bypass, auto winter defrost
- Optional CO2 sensors
- Easy maintenance

		CHR-CF				
		500	1000	1500	2300	3000
Electrical Connections	1~230 V 50 Hz					
Performance Datas						
Air Flow (¹)	m³/h	550	1050	1400	2300	3150
Electrical Requirements						
Fan/motor Power (²)	W	174	260	540	640	756
Current	(A)	1,4	1,74	2,4	2,9	5,6

¹ Airflow data when the ESP is 0 Pa.
² Sound levels are measured at 250Hz and at 1,5m distance.
³ Power consumption

Unit Specifications



Casing

- The body of the device consists of double walled panels. The inner panel is made of 0.8 mm galvanized steel and the outer panel is made of 0.8 mm painted steel. The side panels are 50 mm thick and 50 mm thick rock wool insulation (70 kg/m^3) is sandwiched between the inner and outer steel layers. The panel thickness of the upper and lower panels of the device and the service doors is 30 mm. It is filled with 30 mm thick rock wool insulation (70 kg/



Exchanger

- In CHR-CF units, Eurovent certified counter-flow aluminum high efficiency heat exchanger in accordance with EN 308 standard is used.



Fans

Control Boards

- Fans with EC motor are used in CHR-CF units EC motors have higher efficiencies than AC motors, and have easy speed control.
- Fan blades are backward curved type which have high aero-dynamic efficiency .
- EC motors have low SFP figures which let CHR-CF units consume less energy and have higher efficiencies .



Filters

- There is a Supply filter G4+F9 or M6+F8
- Return filter M5 or M6 class filter on the exhaust side as standard.
- Maintenance covers offer easy access to the filters. Blockage and dirtiness of the filters are followed by electrical board.

Performance Datas

CHR CF-500

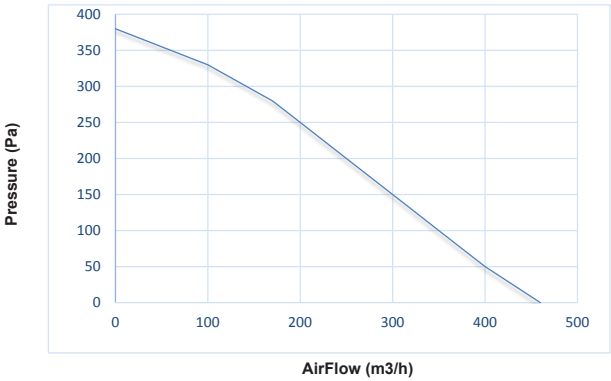


Technical Specifications	
Min. Air Flow (m³/h)	130
Nominal Air Flow (m³/h)	460
Efficiency (EN 308)	78,5
Weigthy (kg)	110
Filter (Vant.)	ePM1 50% (F8) ePM10 60% (M6)
Filter (Asp.)	ePM10 50% (M5)
Operrating Temperature (°C)	-20/50
Protection Class	IP 31
Nominal Voltage (VAC)	230
Current (A)	0,7x2
Power Input (W)	87x2

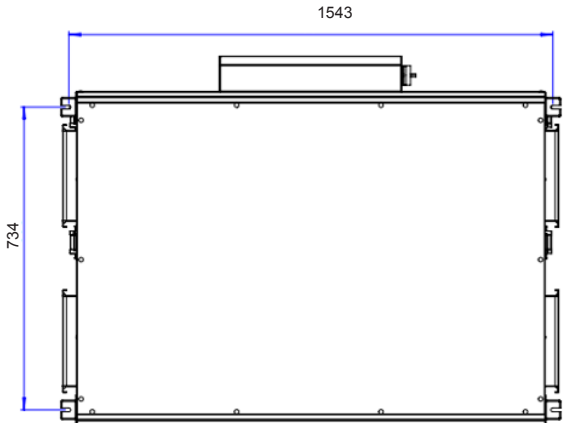
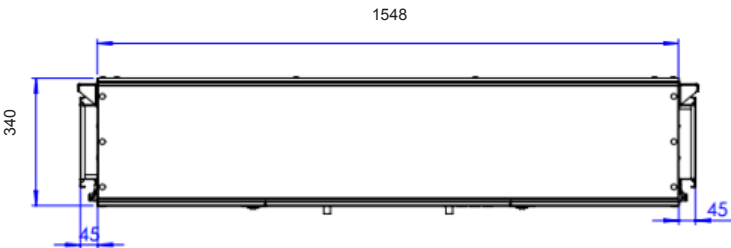
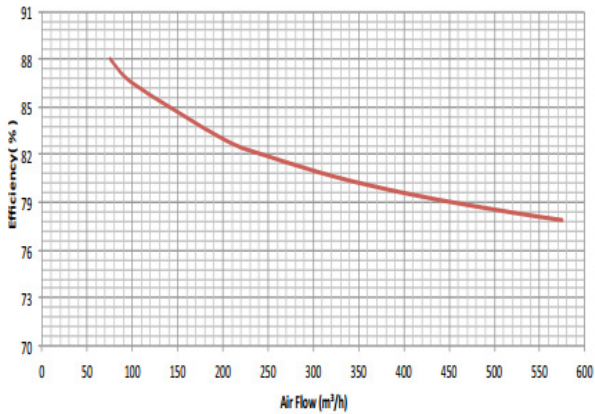
CHR-CF 500	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	LwA-tot
Airborne Sound Power Level (dBA)	33	32	29,5	28,5	27,5	24	21	38,5
Air Outlet Sound Power Level (dBA)	48	52	49,5	50	51,5	52,5	48	59,5
Air Inlet Sound Power Level (dBA)	41,5	47	44	42,5	45	45	41,5	48

Sound levels are measured at 1,5m distance.

Performance Values

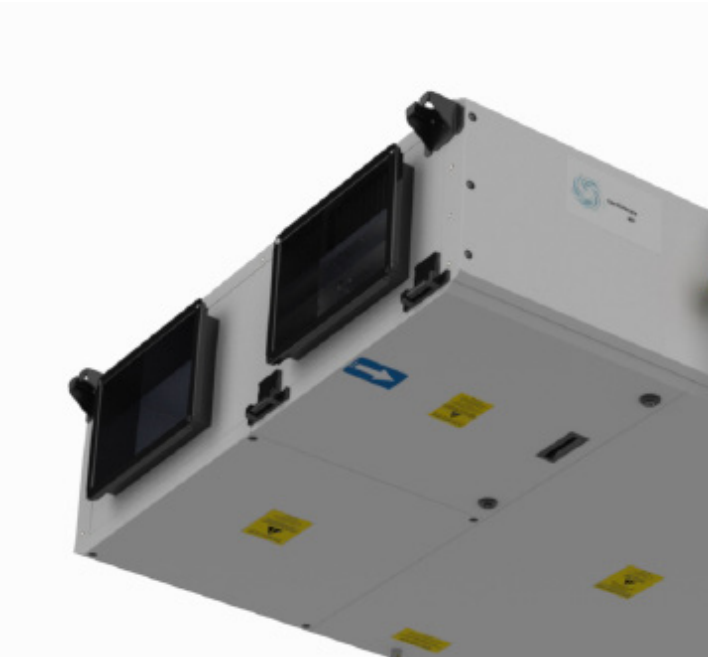


Efficiency



Performance Datas

CHR CF-1000

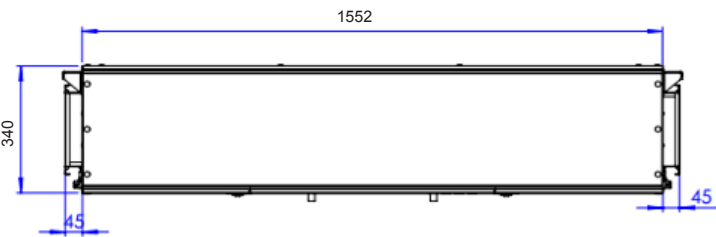
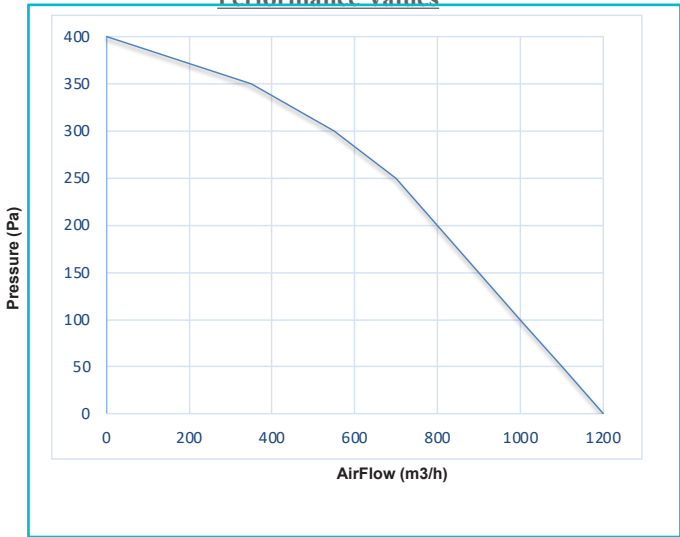


Technicial Specifications	
Min. Air Flow (m³/h)	160
Nominal Air Flow (m³/h)	1000
Efficiency (EN 308)	79
Weigthy (kg)	160
Filter (Vant.)	ePM1 50% (F8) ePM10 60% (M6)
Filter (Asp.)	ePM10 50% (M5)
Operrating Temperature (°C)	-20/50
Protection Class	IP 31
Nominal Voltage (VAC)	230
Current (A)	0,87x2
Power Input (W)	130x2

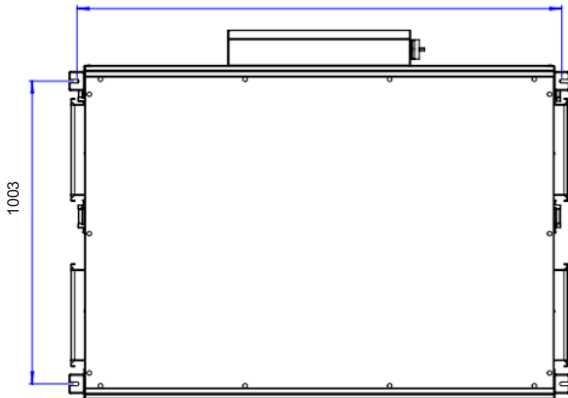
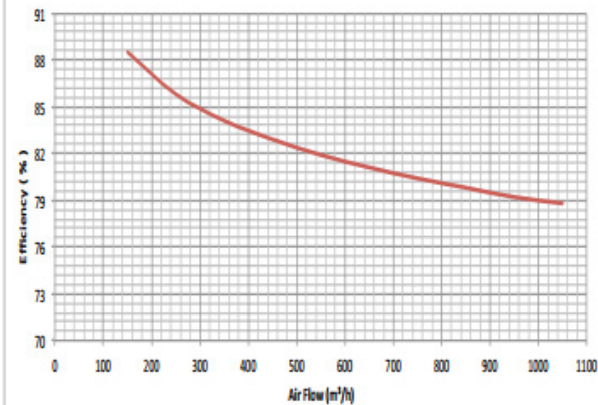
CHR-CF 1000	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	LwA-tot
Airborne Sound Power Level (dBA)	37	36	32	31	30	26,5	23	41,5
Air Outlet Sound Power Level (dBA)	51	55,5	52,5	53	54,5	55,5	51	62
Air Inlet Sound Power Level (dBA)	46	52	49	47,5	50	50	46	51

Sound levels are measured at 1,5m distance.

Performance Values

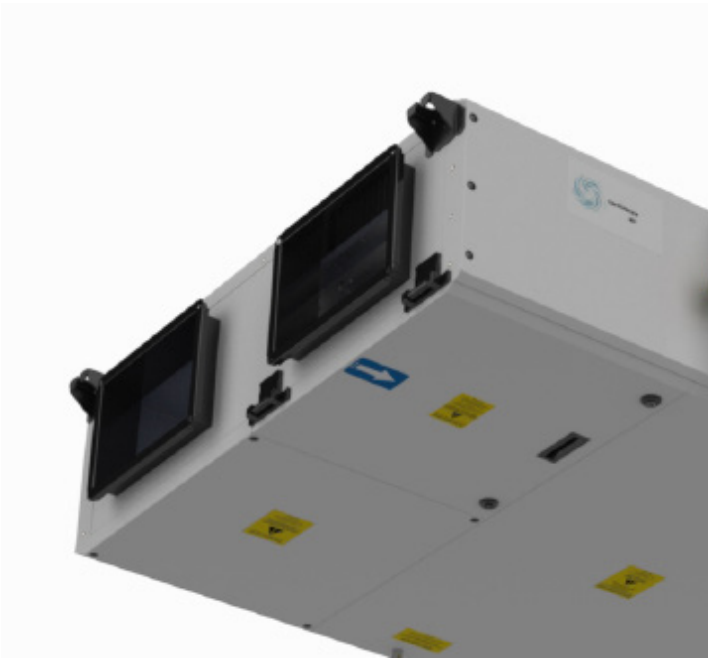


Efficiency



Performance Datas

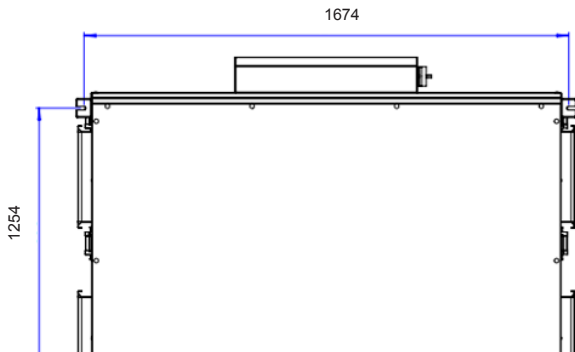
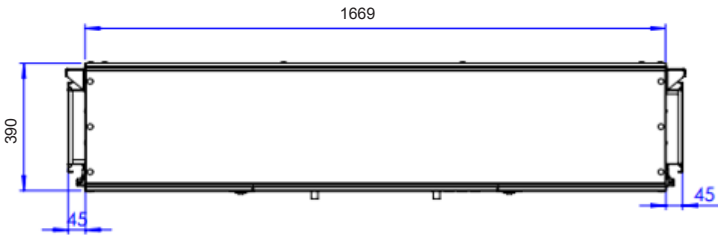
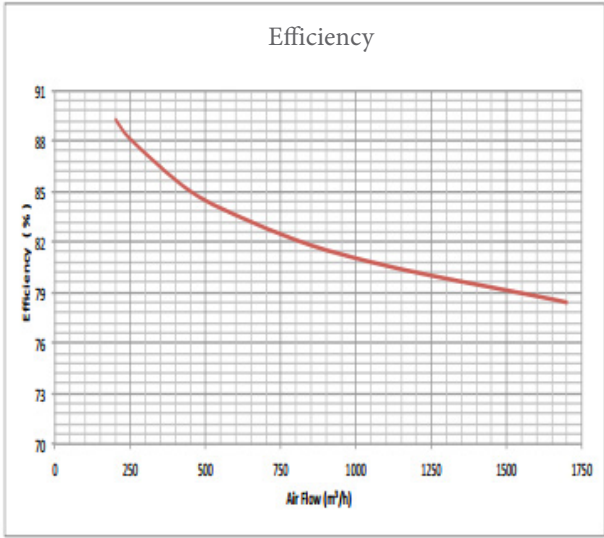
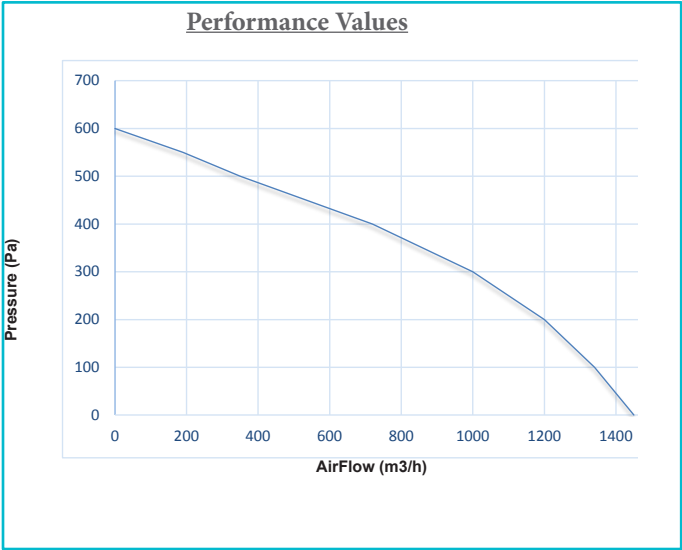
CHR CF-1500



Technical Specifications	
Min. Air Flow (m³/h)	175
Nominal Air Flow (m³/h)	1450
Efficiency (EN 308)	79,1
Weigthy (kg)	210
Filter (Vant.)	ePM1 50% (F8) ePM10 60% (M6)
Filter (Asp.)	ePM10 50% (M5)
Operrating Temperature (°C)	-20/50
Protection Class	IP 31
Nominal Voltage (VAC)	230
Current (A)	1,2x2
Power Input (W)	270x2

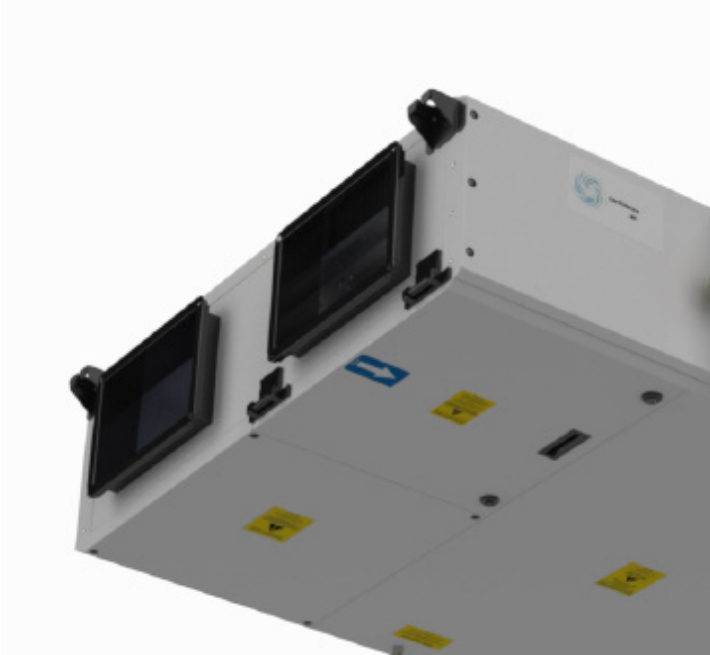
CHR-CF 1500	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	LwA-tot
Airborne Sound Power Level (dBA)	42	40,5	36	35	33,5	29,5	25,5	46,5
Air Outlet Sound Power Level (dBA)	58	62,5	59	59,5	61	62,5	57	67
Air Inlet Sound Power Level (dBA)	51	57	53	51,5	54,5	54,5	50,5	56,5

Sound levels are measured at 1,5m distance.



Performance Datas

CHR CF-2300

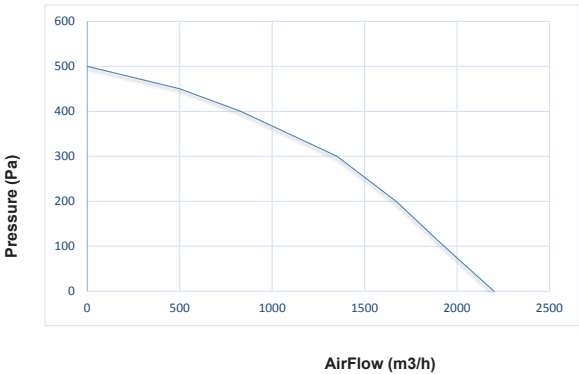


Technical Specifications	
Min. Air Flow (m³/h)	250
Nominal Air Flow (m³/h)	2200
Efficiency (EN 308)	79,7
Weigthy (kg)	280
Filter (Vant.)	ePM1 50% (F8) ePM10 60% (M6)
Filter (Asp.)	ePM10 50% (M5)
Operrating Temperature (°C)	-20/50
Protection Class	IP 31
Nominal Voltage (VAC)	230
Current (A)	1,45x2
Power Input (W)	320x2

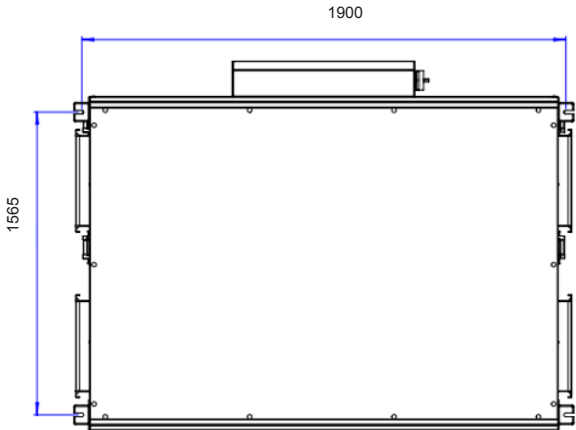
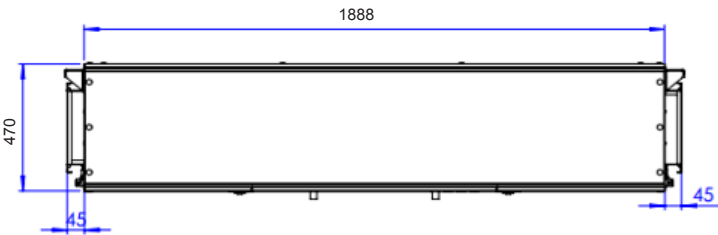
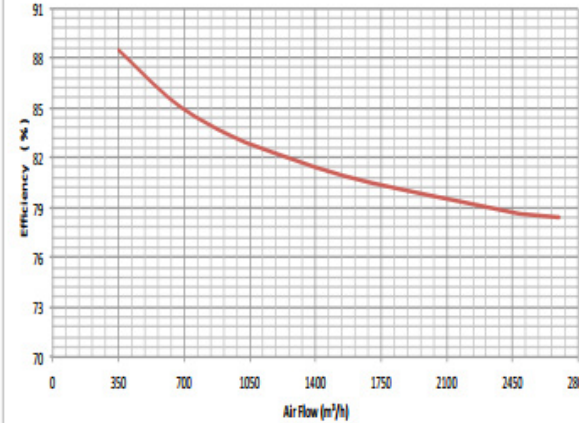
CHR-CF 2300	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	LwA-tot
Airborne Sound Power Level (dBA)	43,5	42,5	37,5	36,5	34,5	30,5	26	47
Air Outlet Sound Power Level (dBA)	60	65	61	62	63,5	65	60	70
Air Inlet Sound Power Level (dBA)	52,5	60	55	53,5	56,5	56,5	52,5	59

Sound levels are measured at 1,5m distance.

Performance Values



Efficiency



Performance Datas

CHR CF-3000

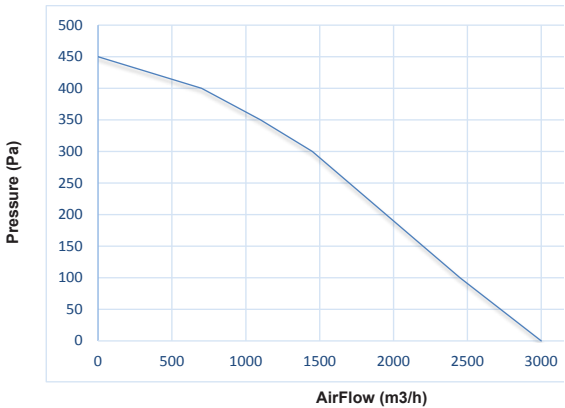


Technical Specifications	
Min. Air Flow (m³/h)	310
Nominal Air Flow (m³/h)	3000
Efficiency (EN 308)	79,1
Weigthy (kg)	320
Filter (Vant.)	ePM1 50% (F8) ePM10 60% (M6)
Filter (Asp.)	ePM10 50% (M5)
Opperrating Temperature (°C)	-20/50
Protection Class	IP 31
Nominal Voltage (VAC)	230
Current (A)	2,8x2
Power Input (W)	378x2

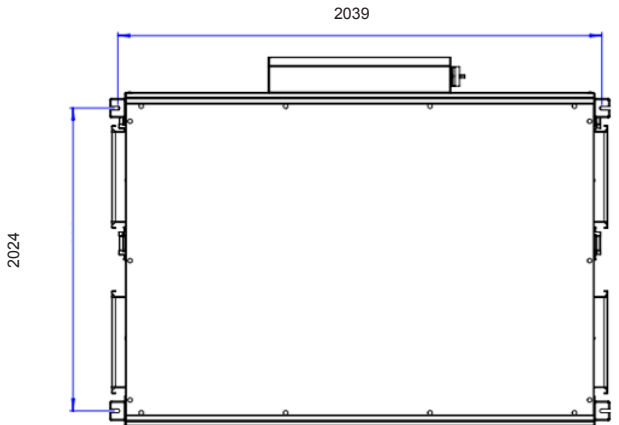
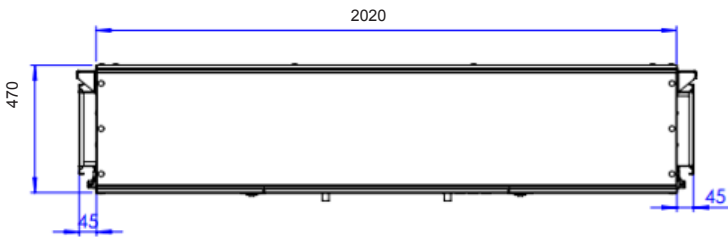
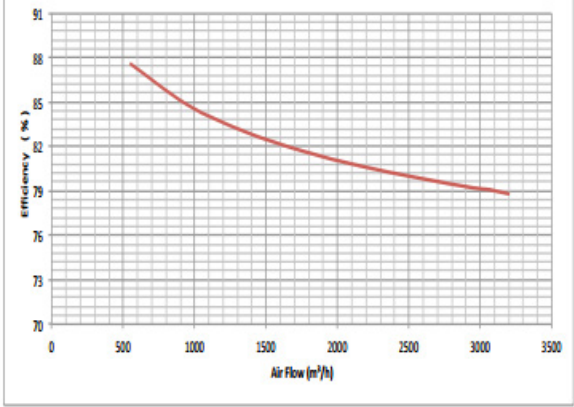
CHR-CF 3200	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	LwA-tot
Airborne Sound Power Level (dBA)	40	38,5	34,5	33,5	31,5	27,5	24	44
Air Outlet Sound Power Level (dBA)	56	61	58	58,5	60	61,5	56,5	68
Air Inlet Sound Power Level (dBA)	49	55,5	52	50,5	53,5	53,5	49,5	57,5

Sound levels are measured at 1,5m distance.

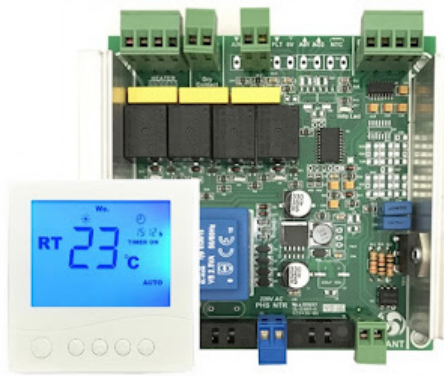
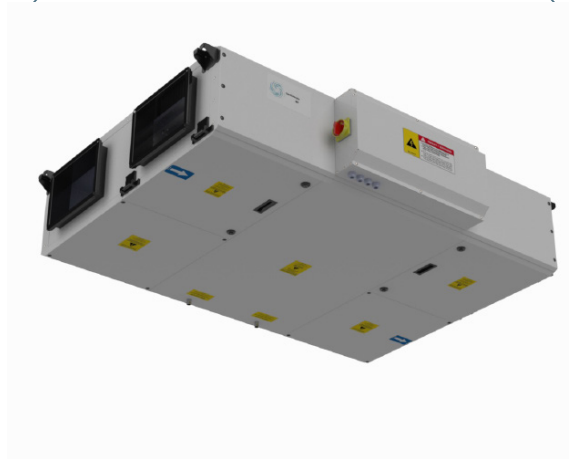
Performance Values



Efficiency



Features



Basic Line Control Card

- Filters M6 + F8 (or G4+F9) and M5 return
- 5 Stage EC Fan Control
- 1200 hours Filter Pollution Control
- Bypass damper to do freecooling
- Input on/off remote signal
- Output error signal
- Modbus-RTU Communication



Professional line Control Card

- Filters M6+F8 (or G4+F9) and M5 rotation
- 5-Stage EC Fan Control
- Electric reheater (inside the unit)
- Constant air flow control
- Bypass damper for free cooling
- CO2 air flow control
- Two differential pressure switches
- Remote on/off signal input
- Output error signal
- Modbus-RTU Communication



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