

CORE

Double-Skin Heat Recovery Units

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Double-Skin Heat Recovery Units

CORE Double-Skin Heat Recovery Units are designed in 5 models with capacities of 500 • 1000 • 1500 • 2300 • 3000 m³/h to meet different indoor ventilation requirements.

CORE	500	1000	1500	2300	3000
Electrical Connections	1~230 V 50 Hz				
Air Flow (1) m ³ /h	550	1050	1400	2300	3150
Fan/ Motor Power (2) W	174	260	540	640	756
Current	1,4	1,74	2,4	2,9	5,6

(1) Airflow data when the ESP is 0 Pa

(2) Power consumption

Device Casing

The equipment's housing is constructed from double-walled panels, featuring a 0.8 mm galvanized steel interior and a 0.8 mm painted steel exterior.

Side Panels: These measure 50 mm in total thickness and enclose a 50 mm core of rock wool insulation (density of 70 kg/m³).

Top, Bottom, and Service Panels: The upper and lower sections, along with the access doors, are 30 mm thick and are insulated with a corresponding 30 mm layer of rock wool (density of 70 kg/m³).

Filter System

The unit utilizes standard filtration on the exhaust side. The supply air uses either G4+F9 or M6+F8 class filters, while the return air relies on M5 or M6 class filters. Dedicated maintenance panels allow for convenient access when replacements are needed. Additionally, you can track and manage filter contamination and blockages directly through the electrical control panel.

Heat Exchanger

The units utilize a highly efficient, aluminum counter-flow heat exchanger. This core component is Eurovent certified and fully complies with EN 308 standards.

Fan Assembly

Corex units are equipped with fans driven by Electronically Commutated (EC) motors and managed via dedicated control panels.

Efficiency & Control: These EC motors outperform standard AC motors by offering superior overall efficiency and much simpler speed regulation.

Aerodynamics: The fans utilize backward-curved blades specifically designed to maximize aerodynamic performance.

Energy Consumption: Because EC motors operate with lower Specific Fan Power (SFP) values, the units achieve higher efficiency while drawing less energy.

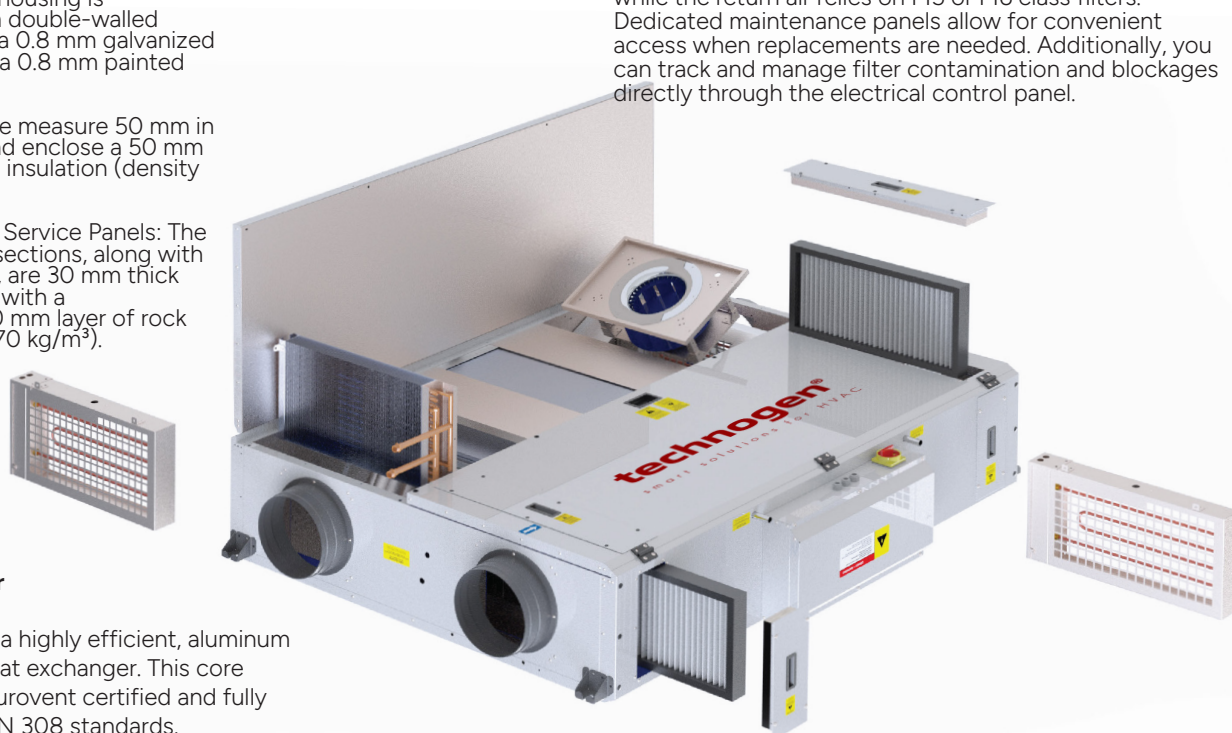
Front Electric Heater

The primary electric heating system is managed through a control panel and includes the following features:

A high-temperature thermistor sensor for precise monitoring and safety.

Power cables that are insulated with flame-retardant heat shrink tubing.

A stepped control mechanism designed to optimize energy usage and promote savings.

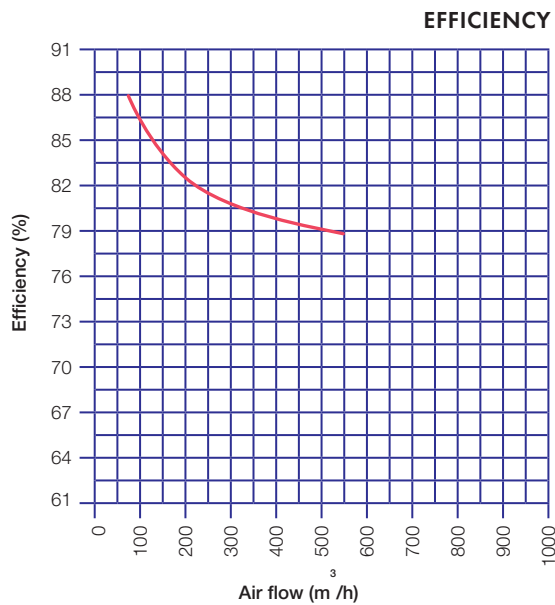
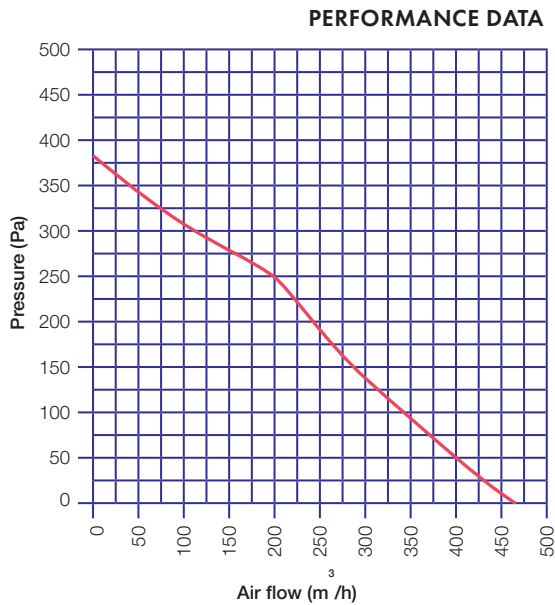


CR-T500 Technical Specifications

Technical Specifications	
Minimum Air Flow m3/h	130
Nominal Air Flow m3/h	460
Efficiency EN 308	78.5
Weight kg	110
Filter Vent.	ePM1 50% (F8)
	ePM10 60% (M6)
Filter Asp.	ePM10 50% (M5)
Operating Temperature °C	-20/50
Protection Class	IP 31
Nominal Voltage VAC	230
Current A	0,7x2
Power Input W	87x2

Sound Levels							
125	250	500	1000	2000	4000	8000	LwA-tot
Hz							-
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

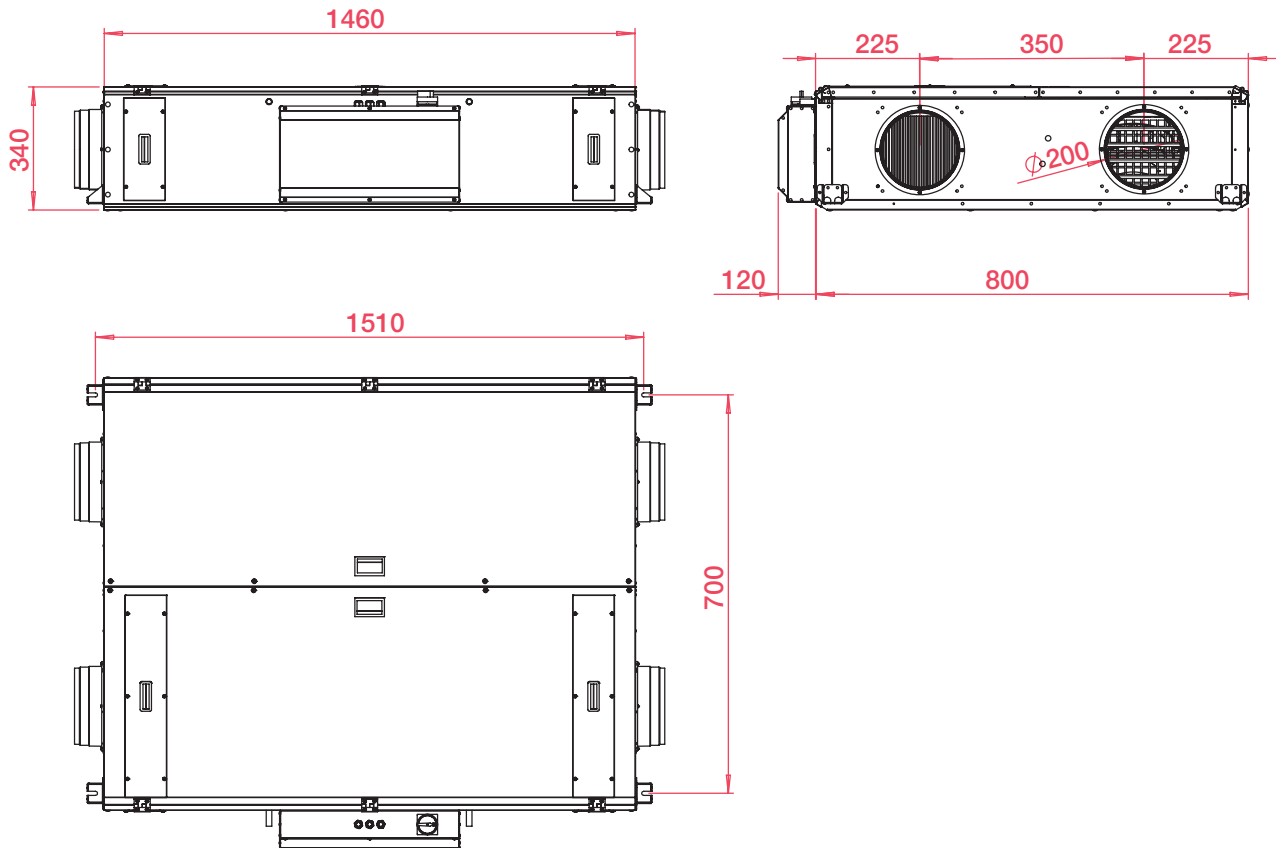
CR-T500 Performance Data



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CR-T500 Dimensions

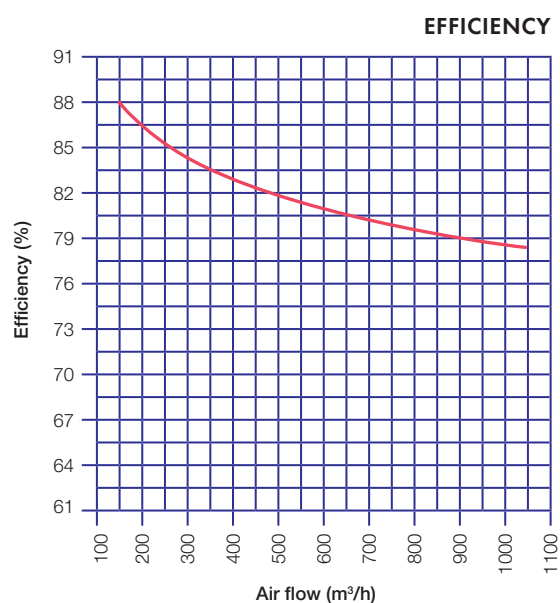


CR-T1000 Technical Specifications

Technical Specifications	
Minimum Air Flow m ³ /h	160
Nominal Air Flow m ³ /h	950
Efficiency EN 308	79
Weight kg	160
Filter Vent.	ePM1 50% (F8)
	ePM10 60% (M6)
Filter Asp.	ePM10 50% (M5)
Operating Temperature °C	-20/50
Protection Class	IP 31
Nominal Voltage VAC	230
Current A	0,87x2
Power Input W	130x2

Sound Levels							
125	250	500	1000	2000	4000	8000	LwA-tot
Hz							-
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

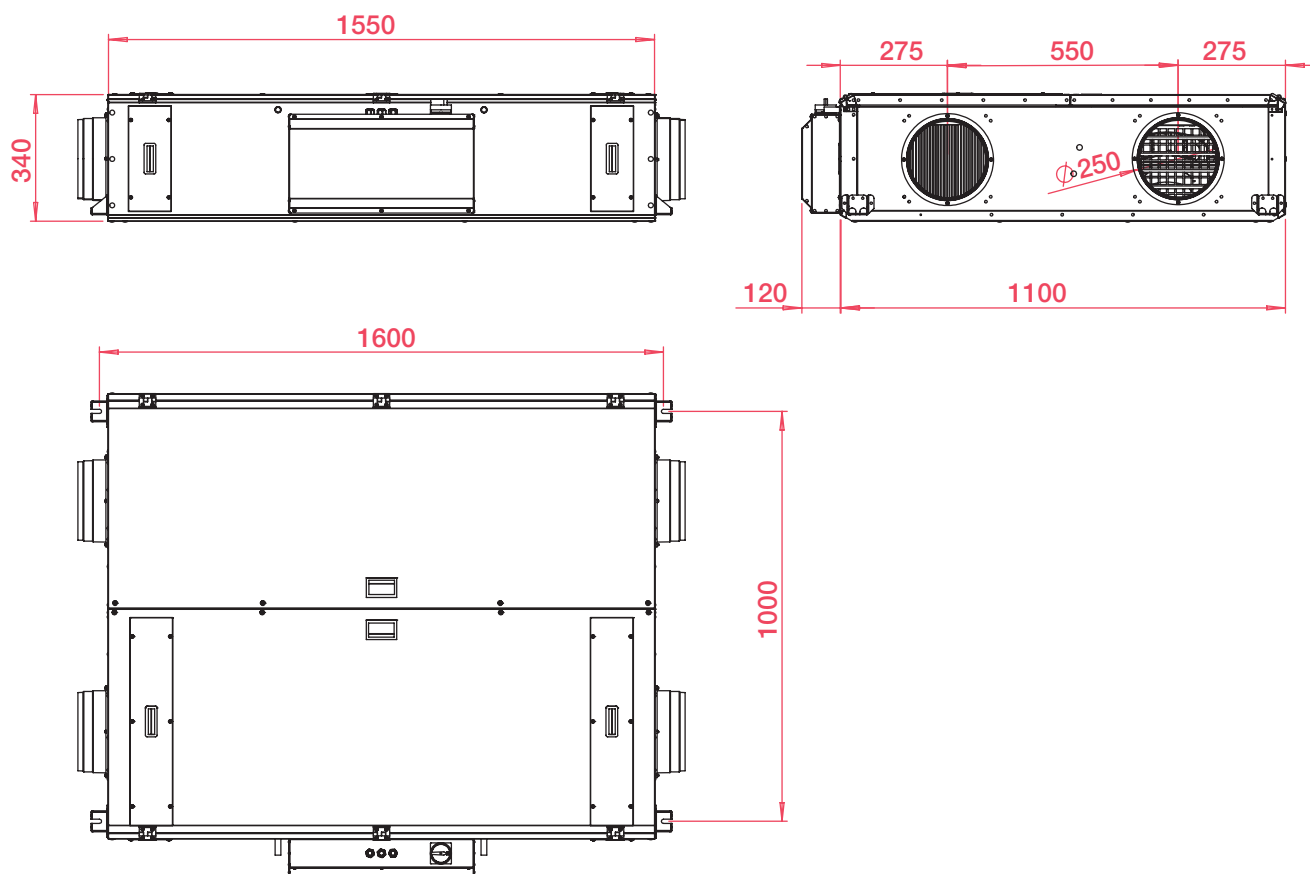
CR-T1000 Performance Data



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CR-T1000 Dimensions

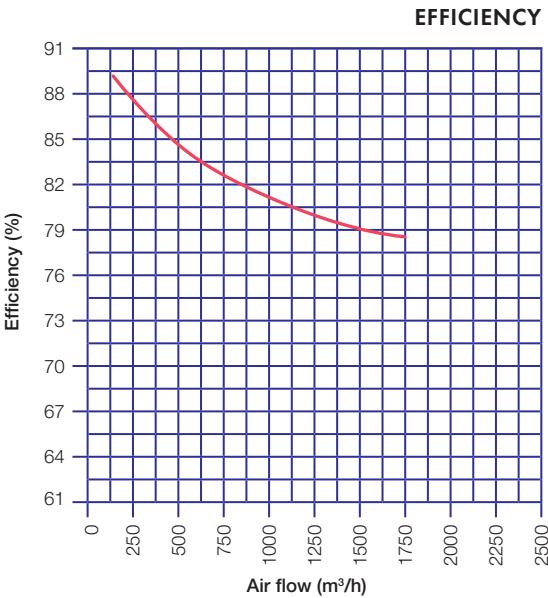
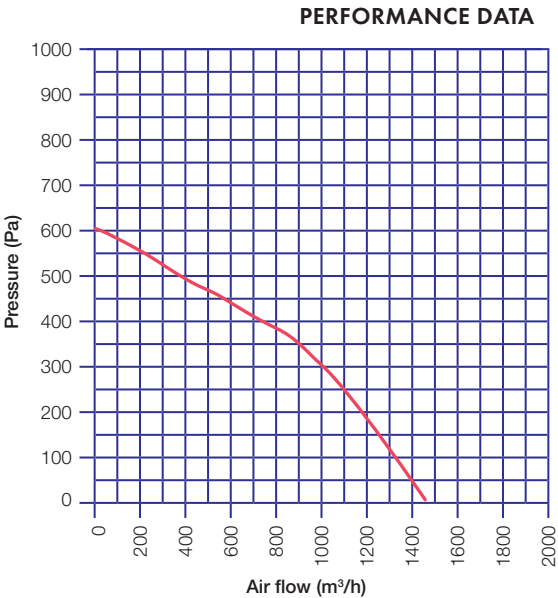


CR-T1500 Technical Specifications

Technical Specifications	
Minimum Air Flow m3/h	175
Nominal Air Flow m3/h	1450
Efficiency EN 308	79.1
Weight kg	210
Filter Vent.	ePM1 50% (F8)
	ePM10 60% (M6)
Filter Asp.	ePM10 50% (M5)
Operating Temperature °C	-20/50
Protection Class	IP 31
Nominal Voltage VAC	230
Current A	1,2x2
Power Input W	270x2

Sound Levels							
125	250	500	1000	2000	4000	8000	LwA-tot
Hz							-
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

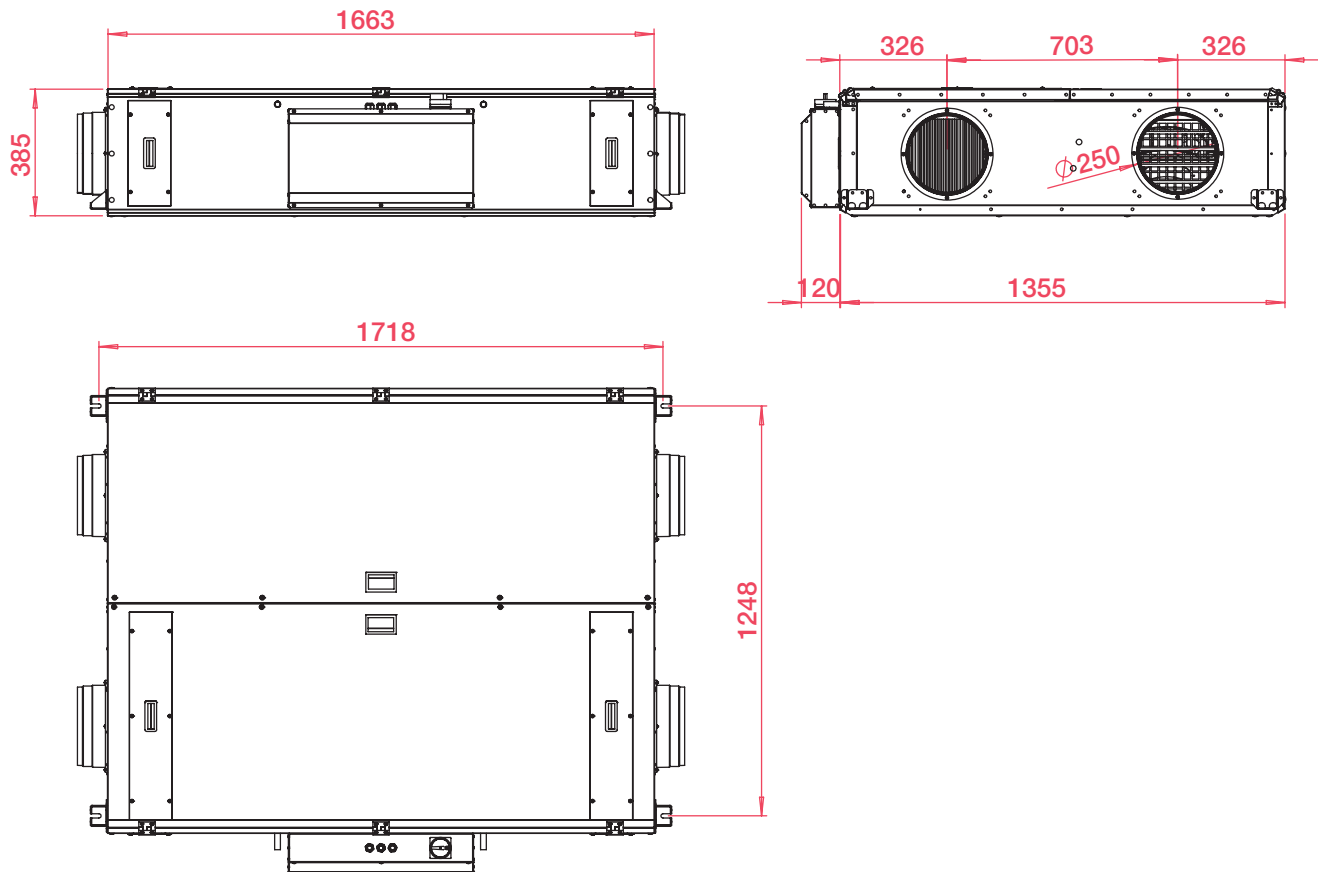
CR-T1500 Performance Data



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CR-T1500 Dimensions

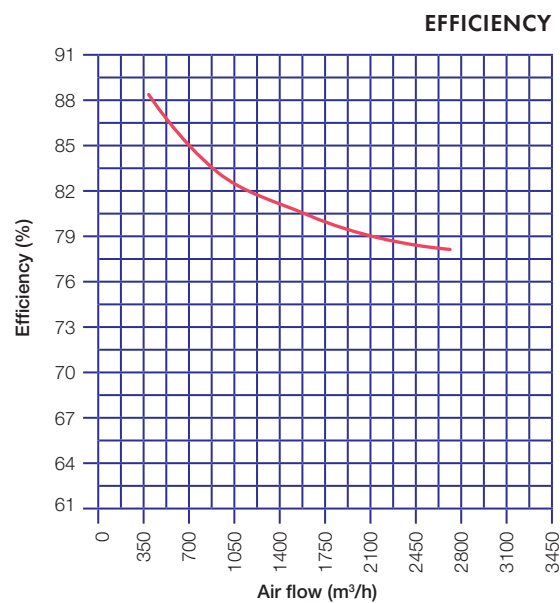


CR-T2300 Technical Specifications

Technical Specifications	
Minimum Air Flow m ³ /h	250
Nominal Air Flow m ³ /h	2200
Efficiency EN 308	79.7
Weight kg	280
Filter Vent.	ePM1 50% (F8)
	ePM10 60% (M6)
Filter Asp.	ePM10 50% (M5)
Operating Temperature °C	-20/50
Protection Class	IP 31
Nominal Voltage VAC	230
Current A	1,45x2
Power Input W	320x2

Sound Levels							
125	250	500	1000	2000	4000	8000	LwA-tot
Hz							-
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

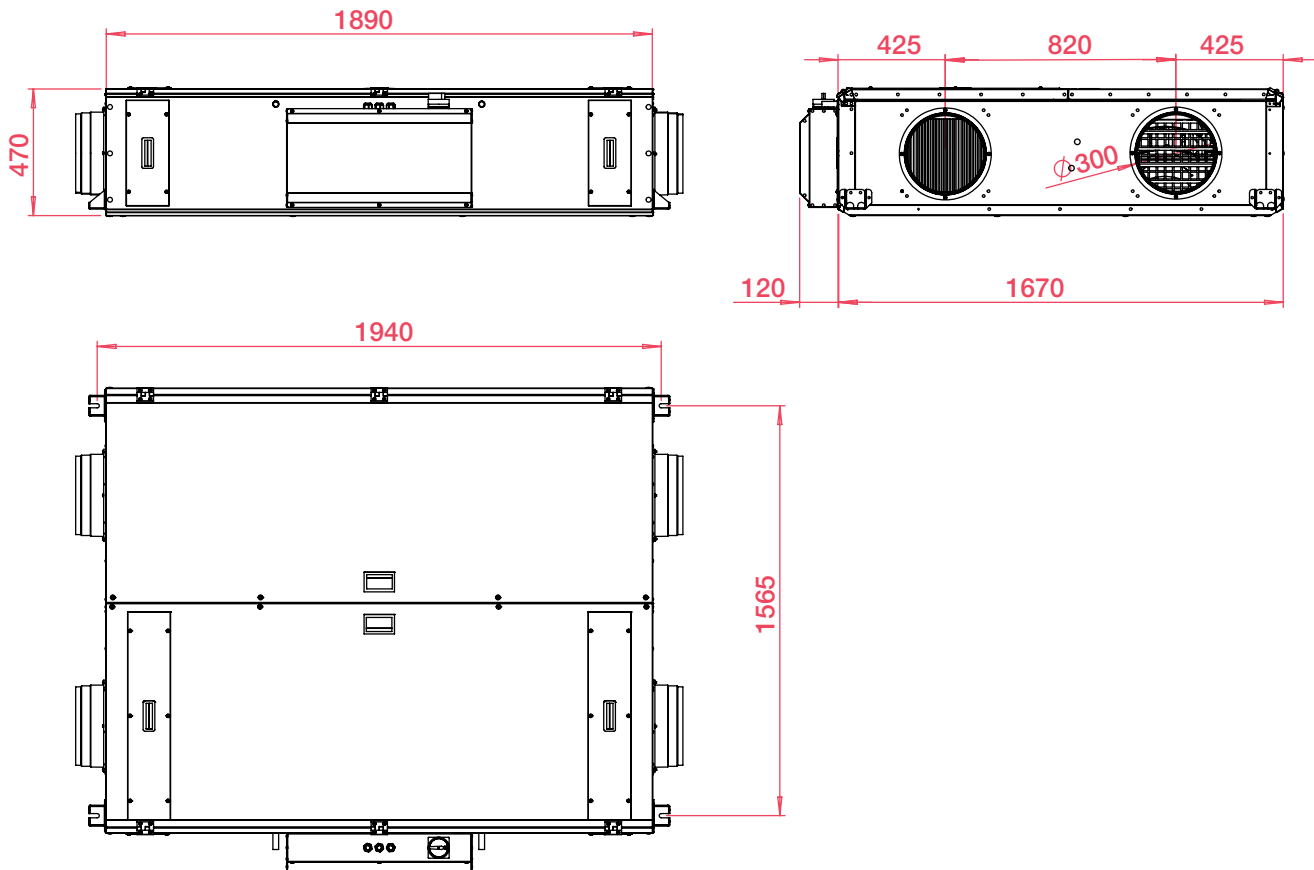
CR-T2300 Performance Data



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CR-T2300 Dimensions

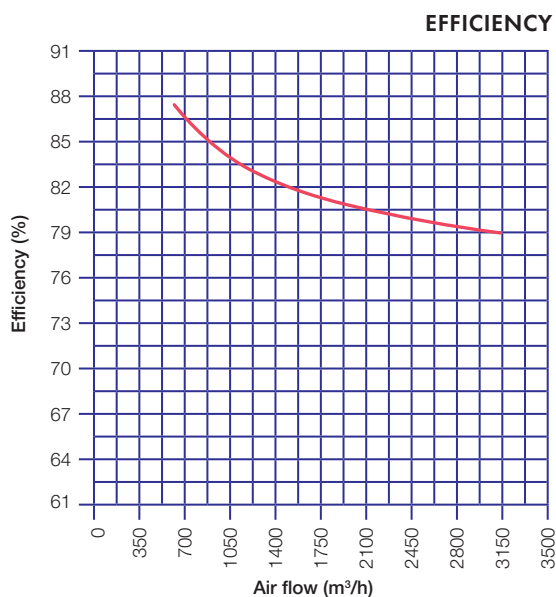


CR-T3000 Technical Specifications

Technical Specifications	
Minimum Air Flow m ³ /h	310
Nominal Air Flow m ³ /h	3000
Efficiency EN 308	79.1
Weight kg	320
Filter Vent.	ePM1 50% (F8)
	ePM10 60% (M6)
Filter Asp.	ePM10 50% (M5)
Operating Temperature °C	-20/50
Protection Class	IP 31
Nominal Voltage VAC	230
Current A	2.8x2
Power Input W	378x2

Sound Levels							
125	250	500	1000	2000	4000	8000	LwA-tot
Hz							-
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

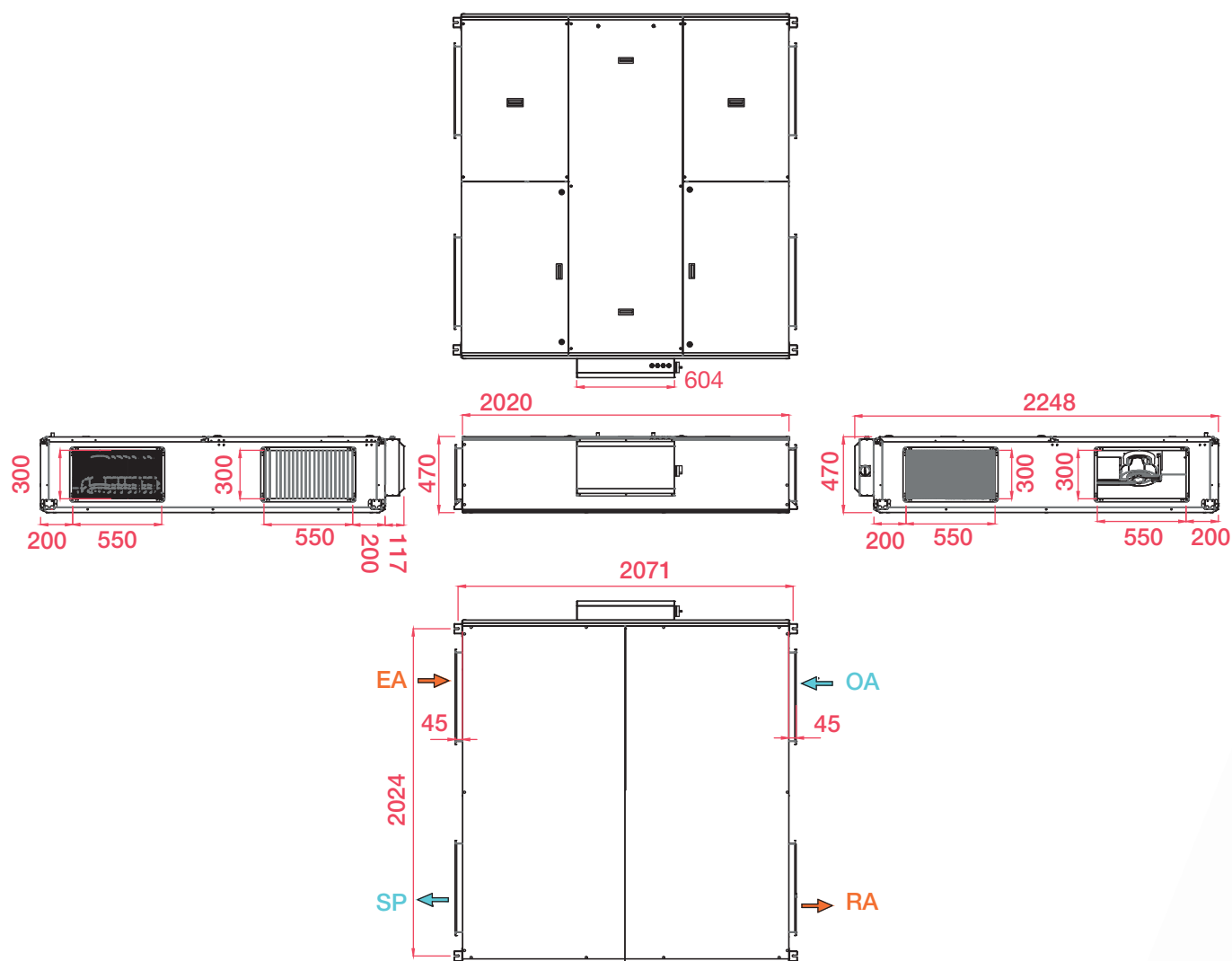
CR-T3000 Performance Data



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CR-T3000 Dimensions



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Control Cards



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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Contact Us

info@technogen-hvac.com

Yazıbaşı Mah. 9224/1 Sokak No: 6
Torbalı, İzmir, Turkey

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