**Product Categories** Product category

### KOMFORT GRE EC Series

### **KOMFORT GRE EC**







The KOMFORT GRE series total heat recovery unit is designed specifically for ultra-low energy consumption buildings.





### 3-Level Noise Reduction Design Powered by High-Performance EC Fans

- (1) Utilization of efficient EC fans, optimizing airflow passages through principles of aerodynamics, resulting in low resistance, high static pressure, and lower noise levels
- (2) Stringent dynamic balance verification, ensuring lower operational noise
- (3) Implementation of shock absorbers between the fan and chassis. effectively reducing overall operational vibrations.





### **RS485 Communication Functionality Integration with Smart Building Management Systems**

The control panel comes with a reserved RS485 interface, allowing seamless integration with smart building management systems (BMS).





### **Standard Bypass Function for Rapid Ventilation in Transitional Seasons**

The entire series comes equipped with a bypass function. During the mild temperatures of spring and autumn, the bypass mode operates without engaging the heat recovery unit. This not only extends the lifespan of the heat exchanger but also facilitates faster whole-house ventilation, as there is no need for heat recovery.





#### **High-Efficiency Composite Filter Ensuring a Continuous Supply of Clean Air**

Utilizing a dual-layer composite filter comprised of medical-grade G4 and H11 materials, our filtration system achieves an impressive 99.5% purification efficiency for PM2.5 particles.





### **Efficient Total Heat Exchanger**

Utilizing a total heat exchanger, the system facilitates physical exchange of temperature and humidity between indoor and outdoor air. With a total heat recovery efficiency of up to 72%, it effectively captures and recycles indoor thermal energy, reducing the thermal load of the fresh air. This results in energy conservation and environmental friendliness, ensuring a more comfortable temperature for the fresh air supply.





### **Air Quality Monitoring 24h**

The entire series comes standard with environmental sensors, capable of real-time monitoring of environmental parameters such as temperature, humidity, CO2, PM2.5, VOC. etc. This ensures constant vigilance over the air quality around you, providing peace of mind and healthier living conditions.



# Human-centered design, convenient installation, suitable for complex spaces.

- Models with an airflow of 800-1000CMH can be installed with a 180° flip mirror image to adapt to different maintenance spaces.
- Models with an airflow of 1500-5000CMH are available in both left and right structures to adapt to different installation and maintenance spaces.



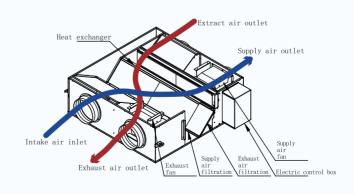
## Multiple operating modes suitable for various application scenarios

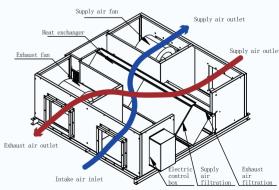
Intelligent mode

Automatically adjusts operation based on air quality sensor data.

Simultaneous opening of supply and exhaust air, with air passing through the heat exchange core.

In bypass mode, the bypass valve is open, and both supply and exhaust air are simultaneously opened, bypassing the heat exchange core for rapid ventilation and air exchange.





KOMFORT GRE EC800-1000

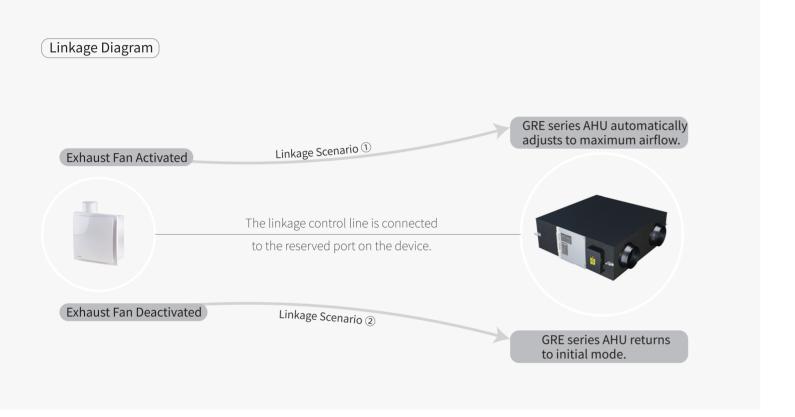
KOMFORT GRE EC1500-5000

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### Reserved linkage ports for intelligent exhaust ventilation

The fresh air valve is linked with the supply air fan. After the supply air fan is turned off, the fresh air valve synchronously closes to prevent air backflow into the indoor space during high temperatures or extremely cold weather. Reserved exhaust linkage ports enable on-off linkage with exhaust equipment to balance indoor airflow.





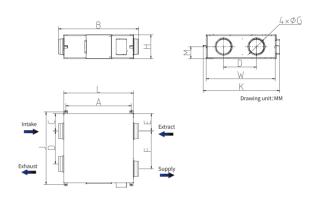
# Optional Electric Heating Module (Optional), Suitable for a Wider Range of Climate Zones

The optional electric heating module allows the product to be used in extremely cold or humid climates. In regions where the outdoor temperature drops below -5°C in winter or the relative humidity exceeds 85%, it is recommended to choose the optional fresh air preheating device to prevent the possibility of freezing damage to the heat exchanger.

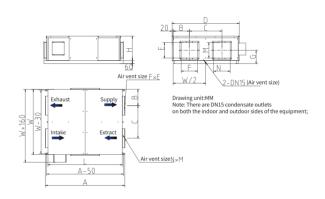


Full Dimensions Size[mm]													
Model	L	W	Н	Α	В	С	D	Е	F	G	J	K	М
KOMFORT GRE EC800	1140	1130	390	1070	1310	285	578	285	578	245	1185	1340	195
KOMFORT GRE FC1000	1140	1375	390	1070	1310	385	680	285	680	245	1430	1585	195

### KOMFORT GRE EC800-1000



### KOMFORT GRE EC1500-5000



Full Dimensions Size[mm]												
Model	L	W	Н	Α	В	С	D	E	F	G	М	N
KOMFORT GRE EC1500	1450	1270	540	1550	318	635	1450	300	320	260	300	320
KOMFORT GRE EC2000	1495	1470	580	1595	368	735	1650	300	320	260	300	320
KOMFORT GRE EC2500	1495	1470	580	1595	368	735	1650	300	320	260	300	320
KOMFORT GRE EC3000	1625	1470	665	1725	368	735	1650	275	435	270	420	500
KOMFORT GRE EC4000	1785	1470	665	1885	368	735	1650	275	435	360	420	500
KOMFORT GRE EC5000	1785	1470	1090	1885	368	735	1650	395	434	580	690	585

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Product Categories

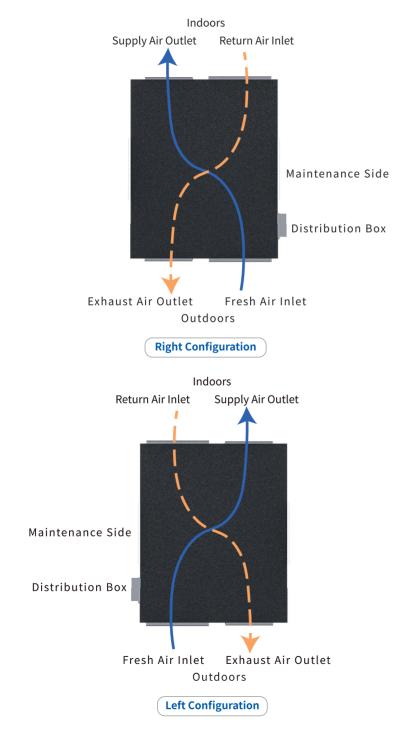
Product Category



### Left and Right Model Distinction

The models with airflow ranging from 1500 to 5000m<sup>3</sup>/h are available in both left and right configurations.

When viewing the unit from above, along the direction of the airflow entering the room, if the maintenance side is on the right side of the unit, it is defined as "right"; conversely, if the maintenance side is on the left side of the unit, it is defined as "left."





KOMFORT GRE	EC800 L/R	EC1000 L/R	EC1500 L/R	EC2000 L/R	EC2500 L/R	EC3000 L/R	EC4000 L/R	EC5000 L/R	
Voltage Input		380\	380V-50Hz						
Rated Fresh Air Volume [m³/h]	800	1000	1500	2000	2500	3000	4000	5000	
Fresh Air External Static Pressure [Pa]	120	120	160	180	210	250	250	280	
Rated Exhaust Air Volume [m³/h]	800	1000	1500	2000	2500	3000	4000	5000	
Exhaust Air External Static Pressure [Pa]	100	100	160	180	200	200	200	200	
Rated Power [W]	355	440	675	890	1120	1325	1800	2245	
Total Heat Exchange Efficiency [%]	70.3	70.5	70.4	70.8	71.5	71.3	71.6	72	
Noise [dB(A)]	46	48	52	55	57	59	62	65	
Casing Material	Galvanized Sheet								
Insulation Material	NBR Rubber								
Exhaust Air Filter	G4								
Fresh Air Filter	G4+H11								
PM2.5 Filtration Efficiency	99.5%								
Weight [kg]	74	84	172	190	194	218	275	335	

#### Note:

- $1.\,\mbox{All}$  products in this series come standard with fresh air bypass function.
- 2. The products come standard with environmental sensors, which can display environmental parameters such as temperature, humidity, CO2, PM2.5, VOC, etc., and can intelligently control the fresh air volume based on CO2 and PM2.5.

### Optional Electric Heating Box Parameter Table

Model	Electric heating Electric heating power (kW)		Unit shell size(mm) Excluding electronic control, flange, and suspension foot dimensions	Size of air inlet and outlet(mm)
KOMFORT GRE 800E	1.5	CJX2-1210	420×400×420	Ø245
KOMFORT GRE 1000E	2.5	CJX2-1810	420×400×420	Ø245
KOMFORT GRE 1500E	4.5	CJX2-1810	520×460×520	320×300
KOMFORT GRE 2000E	5.8	CJX2-2510	520×460×520	320×300
KOMFORT GRE 2500E	7	CJX2-4011	600×560×620	320×300
KOMFORT GRE 3000E	8	CJX2-4011	600×560×620	500×420
KOMFORT GRE 4000E	10.5	CJX2-5011	600×610×620	500×420
KOMFORT GRE 5000E	13	CJX2-5011	720×810×770	690×585

#### Note:

The fresh air electric preheating module adopts PTC electric heating and can be installed on the outdoor side of the fresh air duct (electrical wiring needs to be reserved).

It is recommended to choose the fresh air electric preheating module based on the environmental conditions of the product application. For example, model EC500 L/R is equipped with a fresh air electric preheating module, while EC500 L/R does not come with a fresh air electric preheating module.

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