

KOMFORT GLA (F)

ERV

Features

- The fresh air unit is suitable for supply and exhaust ventilation systems in apartments, residences, and small villas.
- Controlled mechanical energy-saving ventilation system.
- Equipped with heat recovery functionality to minimize heat loss during ventilation.
- Balances humidity and regulates indoor-outdoor air exchange, creating an individually controllable microenvironment.
- Flange size: Ø150mm.



Airflow:
Up to 500 m³/h



Heat Recovery Efficiency:
Up to 75 %

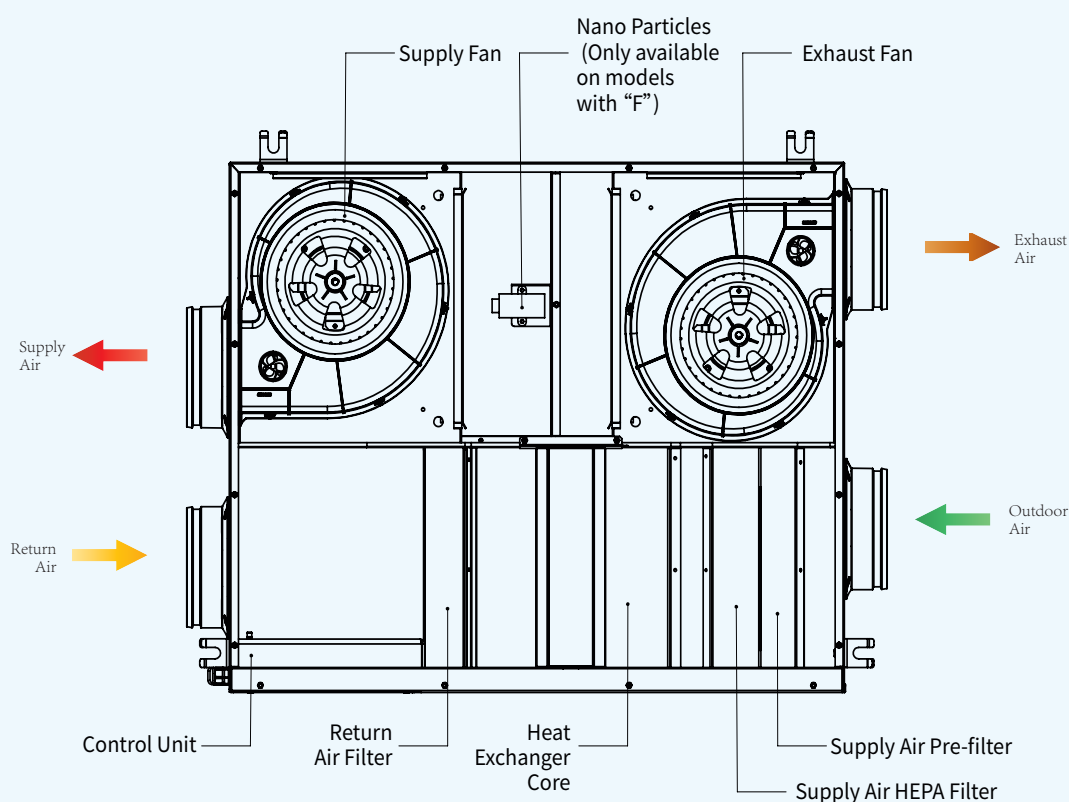


Design

- Constructed with galvanized sheet metal and 5mm NBR insulation, providing both thermal insulation and noise reduction.
- A flange is mounted on the top of the fresh air unit, with a rubber sealing ring to ensure airtight connection with the air duct.
- Removable access panel allows for easy cleaning, filter replacement, and other maintenance tasks inside the unit.

Fan

- High-efficiency DC inner rotor fan.
- Provides powerful airflow with low power consumption and high efficiency.
- Low noise, stepless speed regulation, excellent startup, and speed control characteristics.
- Dynamically balanced for smooth and stable operation.



Heat Recovery

- The equipment is equipped with a counterflow washable total heat exchanger core with a polymer membrane structure, ensuring high heat recovery efficiency.
- The supply and exhaust air are completely separated as they pass through the heat exchanger core, preventing odors and contaminants from the exhaust air from mixing with the fresh air supplied indoors.
- The principle of heat exchange is based on the heat transfer effect when warm and humid air interacts within the airflow exchange inside the heat exchanger.
- In winter, the heat exchanger core absorbs heat from the exhaust indoor air and preheats the fresh air supplied indoors, reducing heat loss during cold seasons. In summer, the process works in reverse, with the heat exchanger core effectively retaining the indoor coolness during the air exchange process.
- This function optimizes the ventilation capability of the air conditioning system and reduces its load.
- The built-in anti-freeze system prevents the heat exchanger core from frosting during cold seasons.
- When the heat exchanger core receives a signal from the temperature sensor, the supply fan automatically shuts down while only the exhaust fan remains operational, allowing the heat exchanger to use the expelled warm air for heating.
- Once the frost is eliminated, the fan resumes normal operation.

Blaufion Nano Particles

- Nano particle technology utilizes particle chips to ionize and reduce water molecules in humid air, providing sterilizing effects.
- This feature is available only in devices with "F" in the model name.

Air Filter

- The air inlet is equipped with a built-in G4 + H13 panel filter, while the air outlet has a G4 panel filter, effectively filtering both supply and exhaust air.
- G4 composite black dust filter: Captures large particles.

- H13 composite silver-ion antibacterial filter: Provides high-efficiency sterilization.

Control and Automation

- The CS3N-1.5 Controller can monitor indoor temperature, humidity, and PM2.5 concentration in real-time. It comes with a ModBus RTU (RS485) interface, allowing users to connect to smart terminals (such as smart home systems) for remote monitoring of the device status. In smart mode, the unit's fan speed can be adjusted based on the indoor PM2.5 and TVOC concentration.
- The device is supplied with a 10-meter control cable for easy installation of the on-site controller.
- CS3N-1.5 Features:
 - Power on/off the device.
 - Display real-time indoor temperature, humidity, PM2.5, and TVOC data.
 - Set and control the speed of the supply and exhaust fans.
 - Select the operating mode: smart, fresh air, or single supply.
 - Filter replacement reminder.
 - Nano particle function selection (optional).
 - RS485 protocol for integration into the smart control system.
 - Remote control via APP.



Air Quality Sensors

- The device is equipped with temperature and humidity, TVOC, and PM2.5 sensors at the RA (Return Air) return air inlet; the CO₂ sensor is optional.

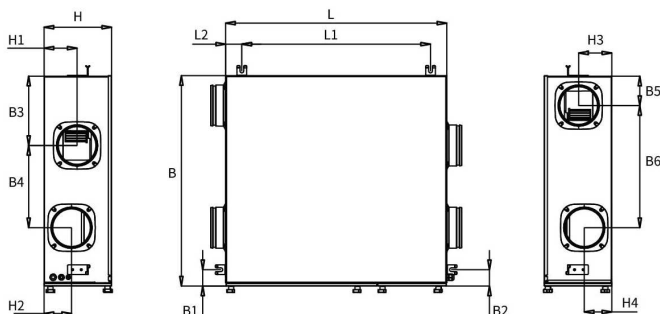
Installation

- Install the device on the ceiling using fixed brackets.
- The device has bottom maintenance access, so a bottom inspection opening should be reserved for filter maintenance.

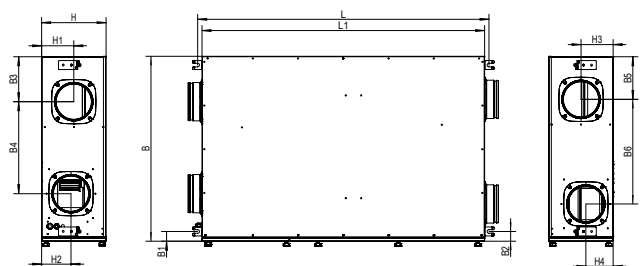
Naming Rule

Series	Motor Type	Installation Method	Additional Features	Nominal Airflow [m³/h]	Maintenance Method
KOMFORT	DC	D: Ceiling-mounted, flange in horizontal direction	F: Nano particles	250; 350; 500	Side maintenance

Komfort GLA D250/D350(F)



Komfort GLA D500(F)

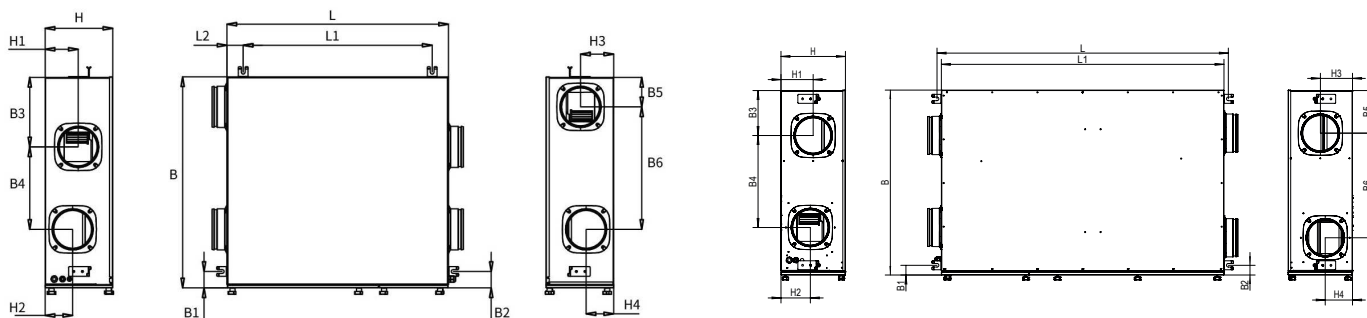


Dimensions

Model	B	B1	B2	B3	B4	B5	B6	L	L1	L2	H	H1	H2	H3	H4
KOMFORT GLA D250(F)	664	59	59	252	246	107	344	804	686	59	246	120	100	120	100
KOMFORT GLA D350(F)	764	59	59	252	299	107	444	804	686	59	246	120	100	120	100
KOMFORT GLA D500(F)	648	38	38	175	358	166	407	1100	1134	/	251	127	116	127	108

Komfort GLA D250/D350(F)

Komfort GLA D500(F)



Technical Specifications

Specifications	Komfort GLA D250(F)	Komfort GLA D350(F)	Komfort GLA D500(F)
Applicable Area [m ²]	80-120	120-150	150-180
Maximum Static Pressure [Pa]	380	420	400
Rated Voltage [V]	220	220	220
Rated Power [W]	90	125	280
Rated Current [A]	0.41	0.57	1.27
Airflow [m ³ /h]	250	350	500
External Static Pressure [Pa]	120	120	150
Operating Temperature [°C]	1—40	1—40	1—40
Noise Level [dBA]	36	38	40
Casing Material	Polymer Coated Steel Plate	Polymer Coated Steel Plate	Polymer Coated Steel Plate
Insulation Material	Insulation Cotton	Insulation Cotton	Insulation Cotton
Return Air Filter	G4+G3 Composite Filter	G4+G3 Composite Filter	G4+G3 Composite Filter
Supply Air Filter	G4+G3 Composite Filter, H13 Silver Ion Composite Filter	G4+G3 Composite Filter, H13 Silver Ion Composite Filter	G4+G3 Composite Filter, H13 Silver Ion Composite Filter
Filtration Efficiency [PM2.5]	99%	99%	99%
Duct Flange Size [mm]	φ150	φ150	φ150
Weight [Kg]	29	35	49
Total Heat Exchange Efficiency	72%	73%	75%
Heat Exchanger Core Type	Counterflow Full Heat Washable Heat Exchange	Counterflow Full Heat Washable Heat Exchange	Counterflow Full Heat Washable Heat Exchange
Heat Exchanger Core Material	Polymer Membrane	Polymer Membrane	Polymer Membrane

Komfort GLA D250(F)

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