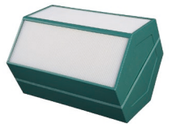
KOMFORT D6B Series

Ultra-low energy consumption buildings

Fresh air | Intelligent | Purification | Energy-saving | Quiet

The Core Component of Heat Recovery Ventilation Systems

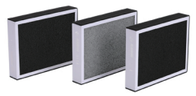


Washable Heat Exchanger

- Plate-fin counterflow heat exchanger, designed according to passive house requirements, efficiently regulates the overall indoor thermal and humidity environment.
- It inhibits bacteria and mold, ensuring air cleanliness.
- Its compact and exquisite structure allows for full washability, ensuring an extended lifespan.

High-efficiency Direct Current Variable Frequency Fan

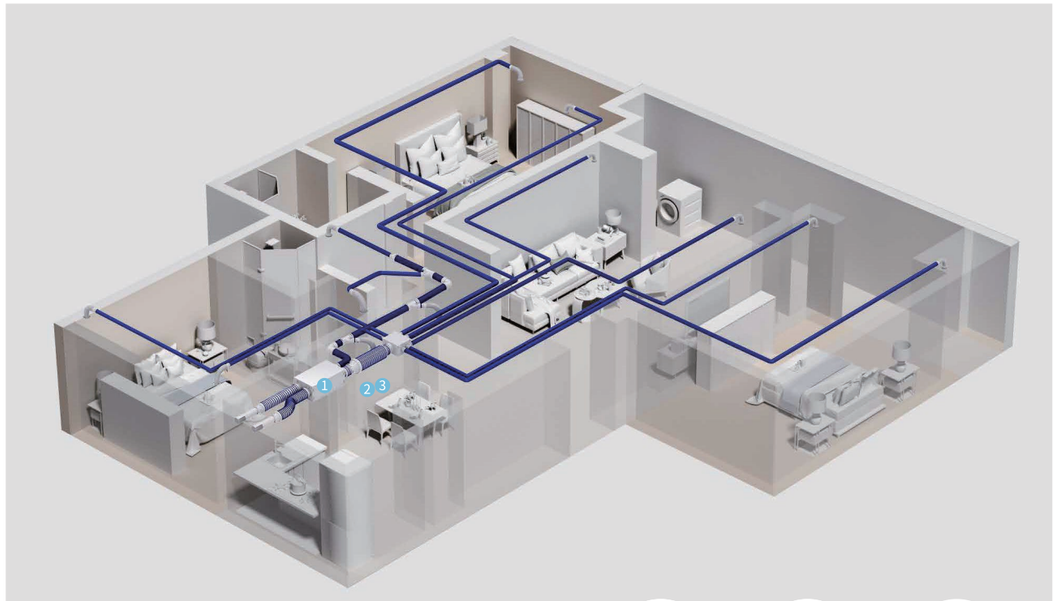
- Direct current variable frequency technology enables intelligent airflow output.
- Stable speed output ensures constant airflow, with airflow precision up to ±5%.
- High efficiency with low consumption and excellent speed control performance.
- Dual thermal protection, overvoltage, and overcurrent protection automatically cut off the current in case of abnormal sudden situations



Composite High-Efficiency Filtering Mesh

- Fresh Air: G4+F7; Exhaust Air: G4, multiple filtration layers, achieving up to 97%;purification efficiency.
- Utilizes healthy physical filtration,;
  - Rejecting the ozone brought by electrostatic filters.

Ultra-low Energy Consumption Buildings: Brand New Smart Air Solutions



Komfort D6B (E) | Five-in-One Sensor | Smart Controller

Four Operating Modes to Address Fresh Air Requirements in Ultra-Low Energy Buildings

√ **Intelligent / Manual Mode**

Automatically adjusts based on CO2 and PM2.5 concentration, intelligently regulating indoor air environment with three adjustable airflow levels, allowing for personalized switching.

√ **Heat Exchange Mode**

Efficiently recovers the thermal energy from indoor exhaust air to prevent energy waste, ensuring energy-saving comfort.

√ **Single Supply Mode**

When outdoor pollution is severe, it ensures indoor air quality while reducing filter wear.

√ **Bypass Mode**

During transitional seasons, automatically activates bypass function based on indoor and outdoor enthalpy difference, efficiently saving energy.

Intelligent Control System

5-in-1 Sensor

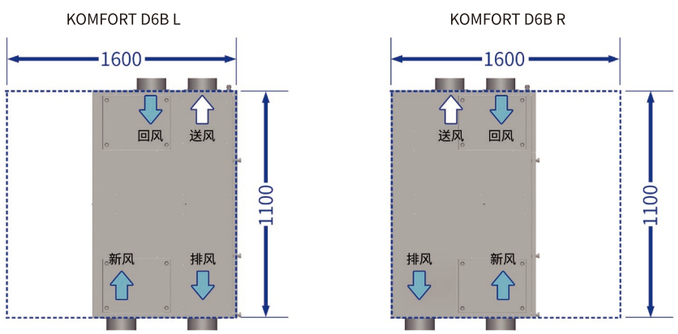
- Temperature, Humidity, PM2.5, CO2, TVOC Sensor

Smart Control Panel

- Display: Operating Mode, Filter Replacement Reminder, Air Quality Parameters, Airflow Level Operating
- Modes: Smart / Manual Mode, Single Supply Mode, Bypass Mode, Heat Exchange Mode;
- 485 Communication Function;

Equipment Maintenance and Installation Instructions

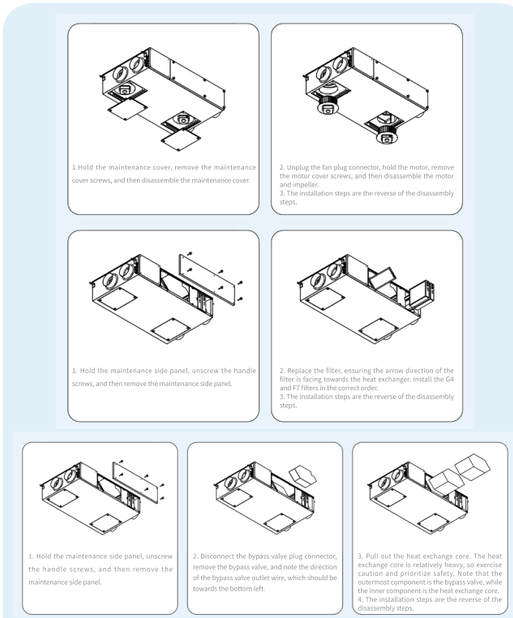
Inspection Port Dimensions



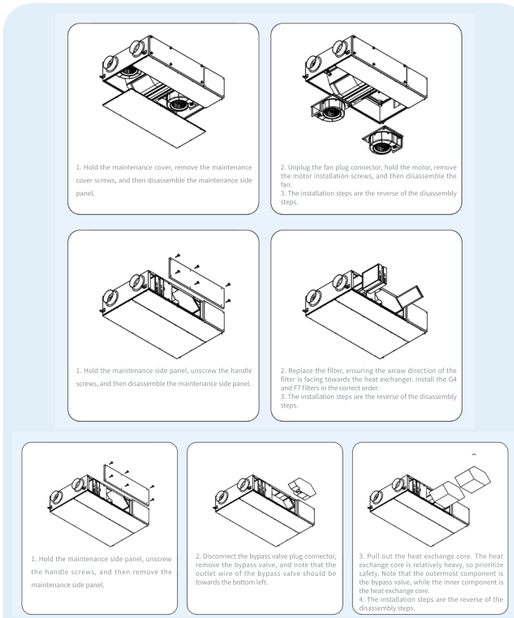
*Left and Right Type Definition: When viewing the equipment from above, along the direction of the airflow, if the side inspection cover is on the left side, it is considered the left type; if it's on the right side, it's considered the right type.

Maintenance Method

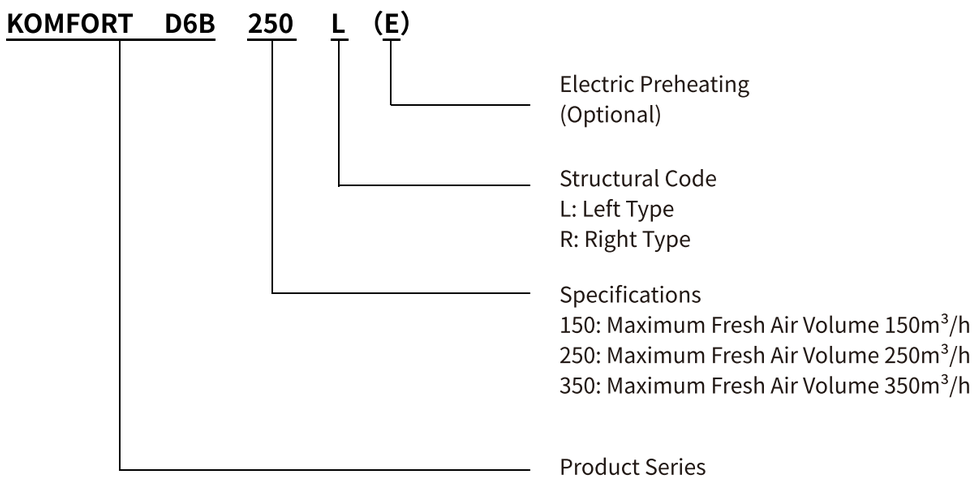
Left Type



Right Type



The KOMFORT D6B model introduction



Technical Parameters

Project		KOMFORT D6B 150	KOMFORT D6B 250	KOMFORT D6B 350
Fresh Air Volume [m³/h]		150	250	350
Fresh Air Fan External Static Pressure [Pa]		100	100	100
Exhaust Air Volume [m³/h]		135	230	320
Exhaust Air Fan External Static Pressure [Pa]		50	50	50
Power Supply			220V 50Hz	
Rated Current [A]		0.21（4.75）	0.43（4.98）	0.52（5.07）
Rated Power [W]		45（1045）	95（1095）	116（1116）
Fresh Air Fan Ws [W/(m³•h)]		0.3	0.38	0.33
Cooling Recovery Efficiency [%]	Sensible Heat	70	73	70
	Total Heat	73	71	66
Heating Recovery Efficiency [%]	Sensible Heat	85	79	75
	Total Heat	81	77	74
Noise [dB(A)]		31	39.3	39.3
Dimensions [mm]		1100*700*250	1100*700*250	1100*850*250
Interface Dimensions [mm]			Φ146	
Weight [kg]		42	42	49

Note:
1) The above parameters are measured under the working conditions specified in GB/T21087-2020 "Heat Recovery Fresh Air Unit";
2) The airflow of the unit is divided into high/medium/low gears, corresponding to 100%/80%/40% of the rated airflow;
3) The values of rated current and rated power in parentheses are the electrical parameters when electric preheating is used;
4) Ws for the fresh air fan refers to the power consumption per unit airflow of the fresh air fan.