

HEAT ENERGY RECOVERY VENTILATION SYSTEM

UP TO **98%**
Heat Recovery
Efficiency

300-400m³/h
Airflow Capacity
Max.

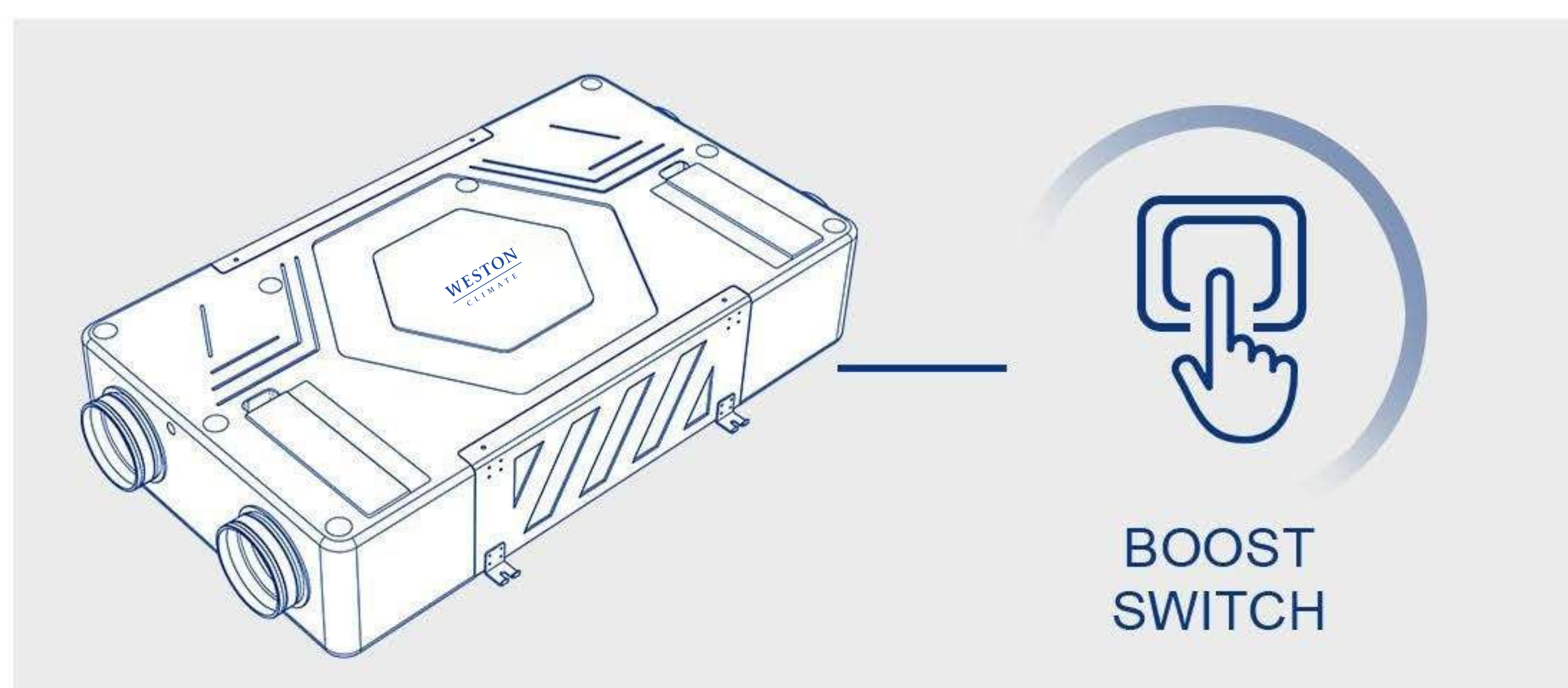


Weston Climate ventilation system is equipped with advanced high static pressure and energy saving constant flow EC motors, with high performance to ensure the sufficient delivering of air to each room. The ventilation system is also fitted with internal temperature sensors and relative humidity sensors as standard. Modbus RS485 connection is ready for BMS Building Management System or Smart Home.



EPP HOUSING

The most efficient in heat & sound insulation



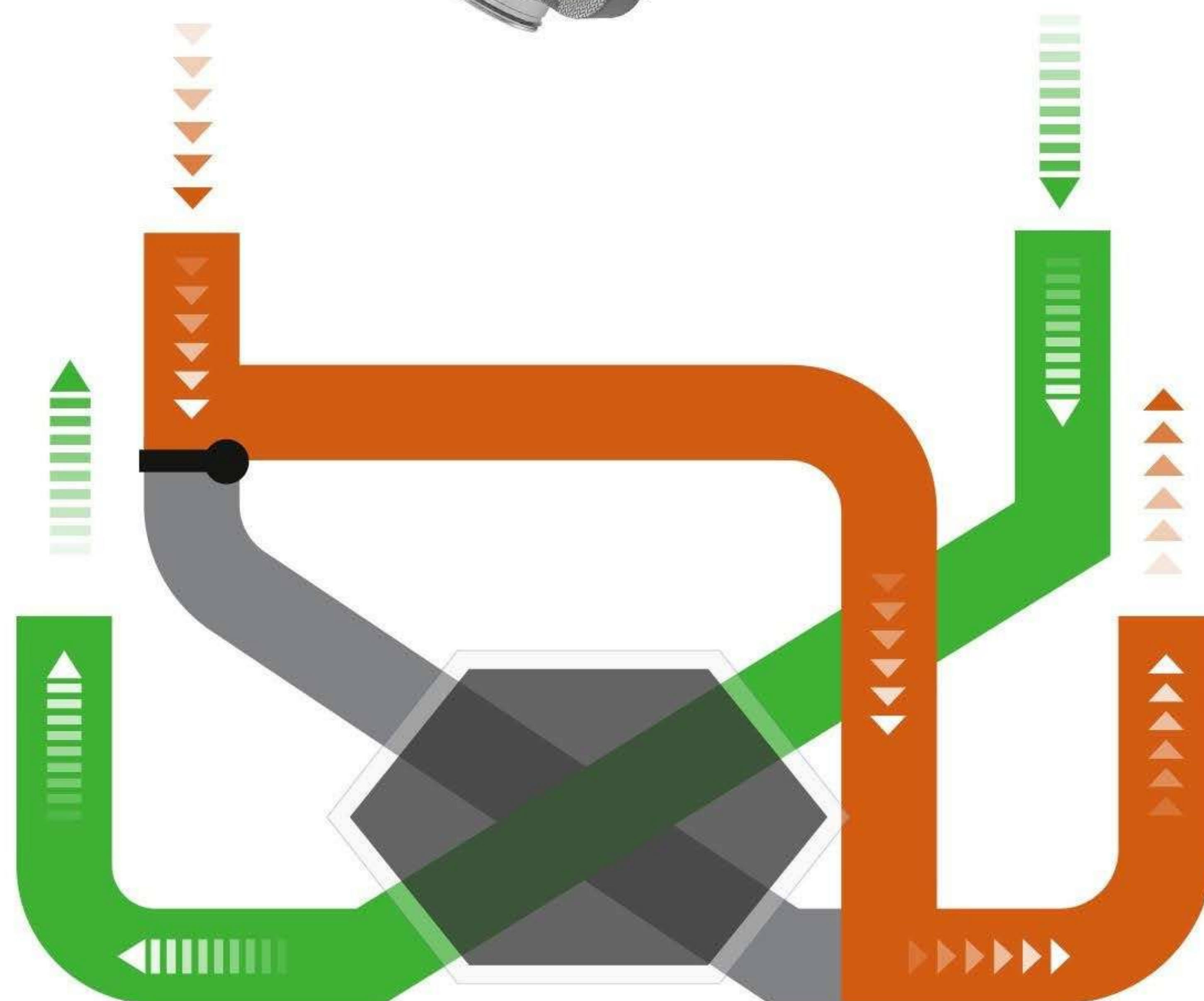
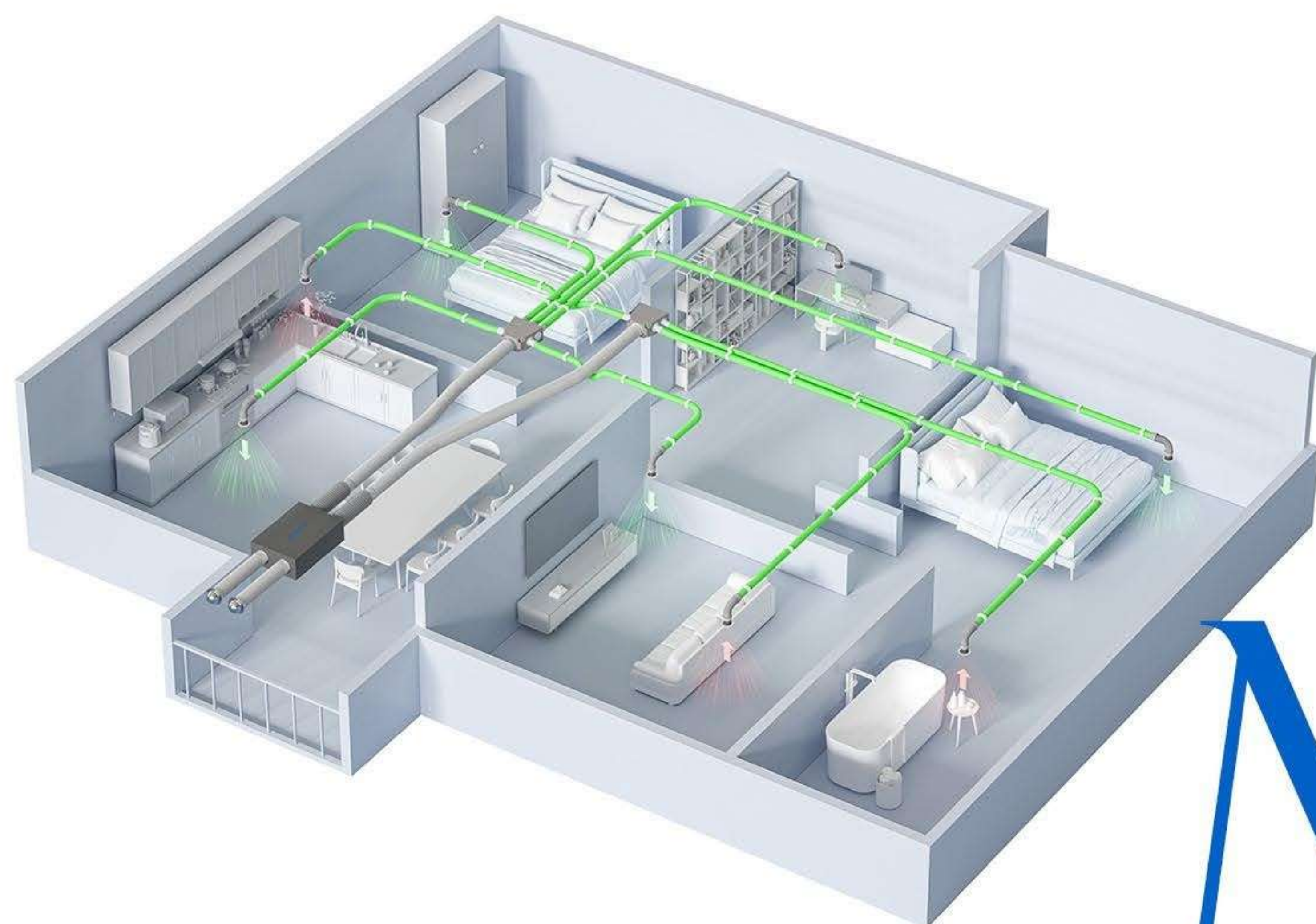
Boost Function

Rapid Circulation

Boost ventilation is a function that can be triggered when indoor needs a fast circulation of air with outdoor fresh air.

When the IAQ is bad, or indoor humidity is high, boost function can be triggered to ensures pollutants are extracted immediately at the highest fan speed.

Up to 10 external boost switches can be connected to the control system.



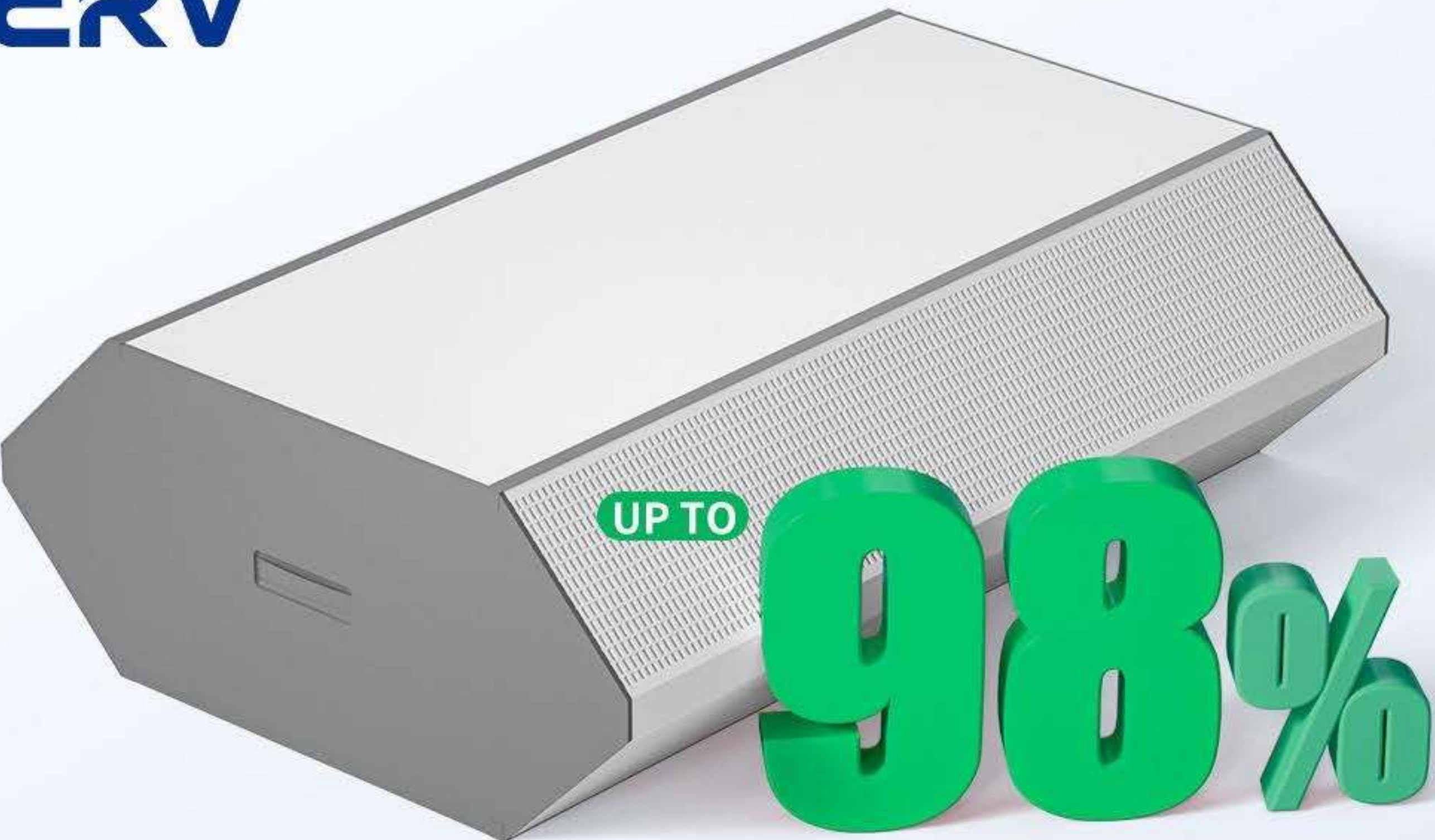
Bypass Damper

Integration

Built-in bypass damper for summer bypass (free-cooling), without exchanging the heat at the heat exchanger, the fresh air with comfortable temperature level from outdoor can be delivered into the room directly.

MVHR

ERV



Filters

Multiple Options

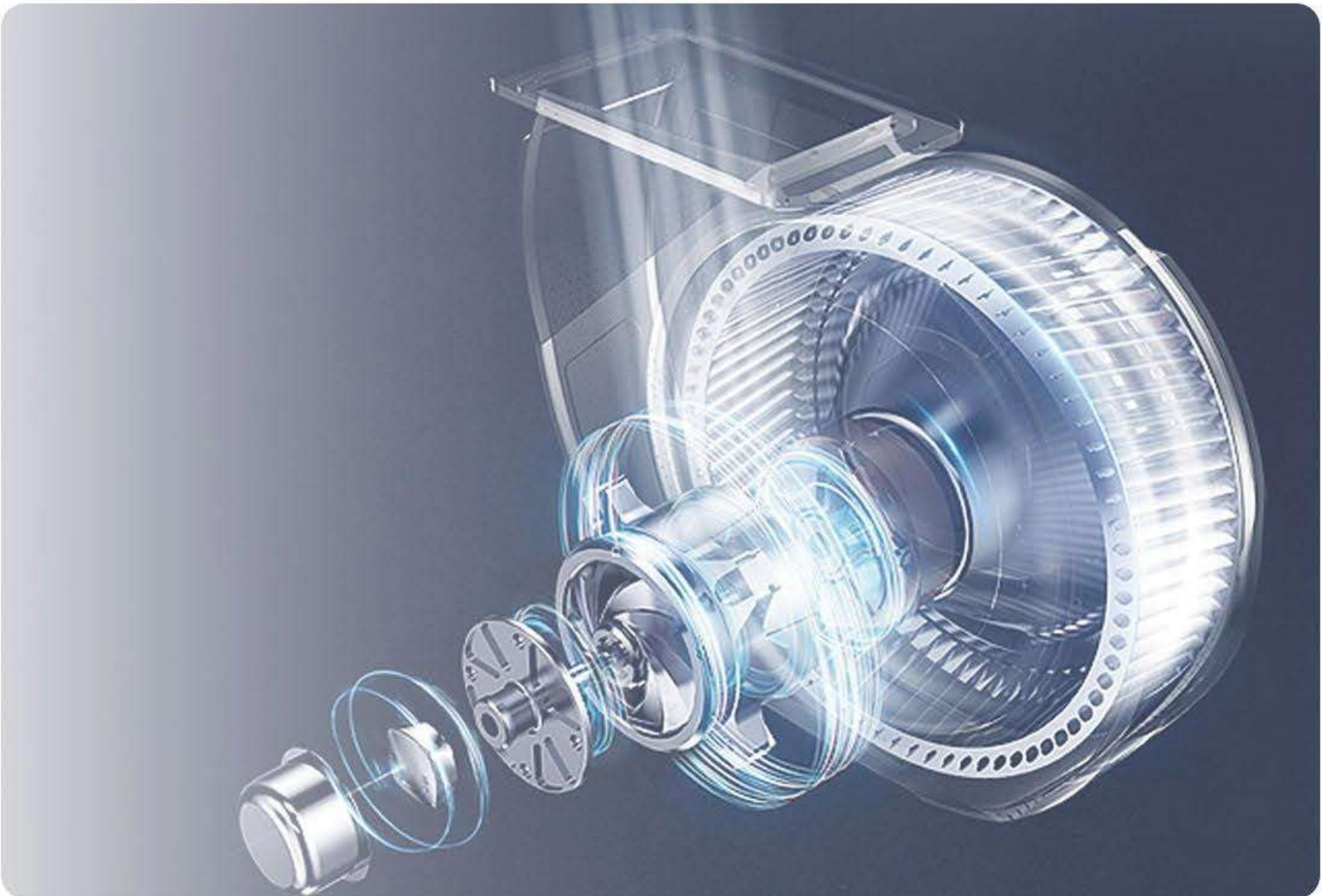
G4 extract filter and G4 supply filter are fitted as standard.
F8 supply filter is optional. H11 supply filter is available upon request (H11 filtering efficiency of PM2.5 is >99.9%).

HIGH Efficiency

Heat Recovery

Counter-flow plate heat exchanger (no moving parts), with an optimal distance between layers to ensure a high heat recovery efficiency and a smooth movement of the airflows. Material with Graphene used further enhances heat recovery efficiency.
The core is washable and durable, anti-mold, anti-viral and anti-bacterial.

*Optional HRV model is available

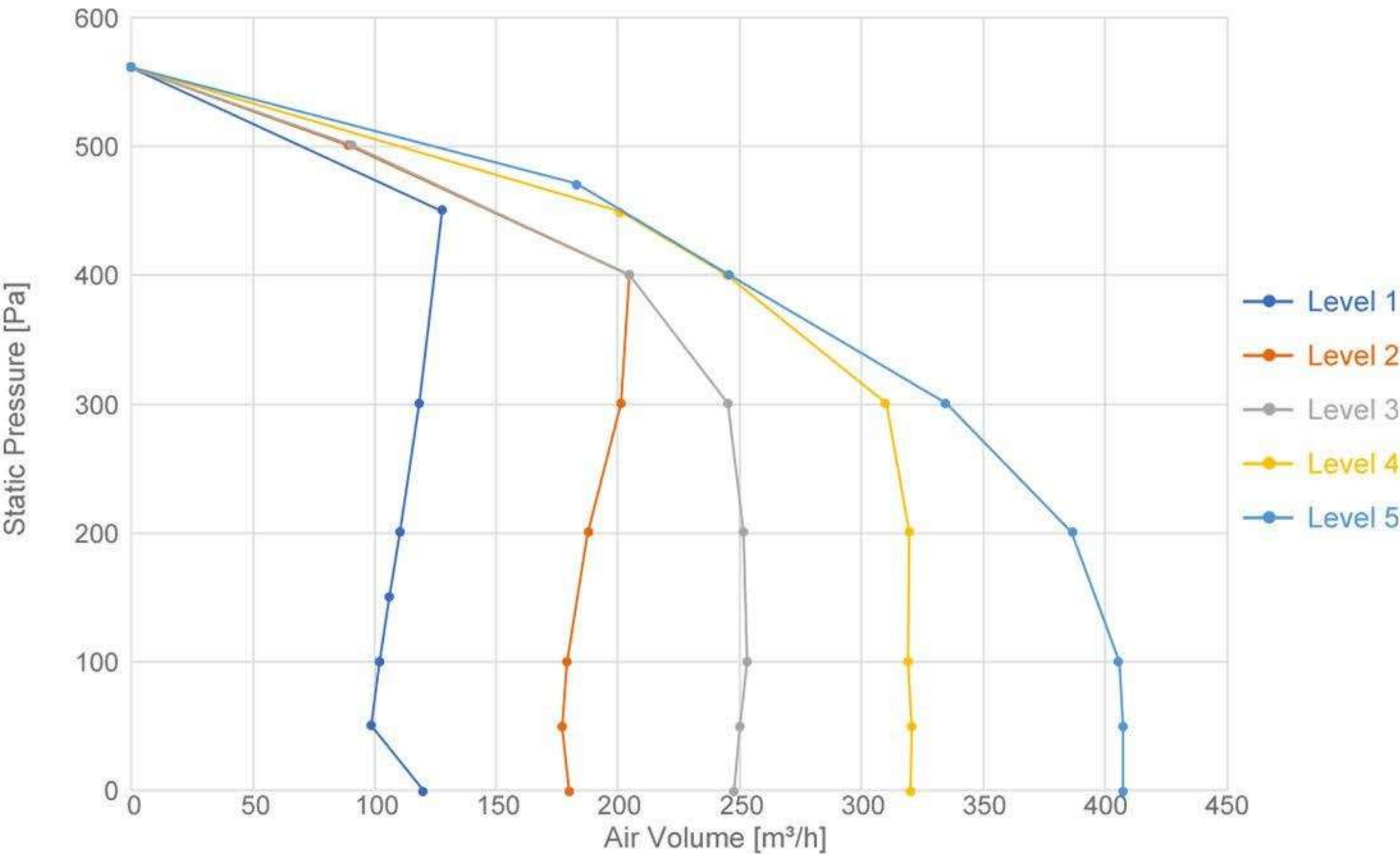


EC Motor

Energy Saving

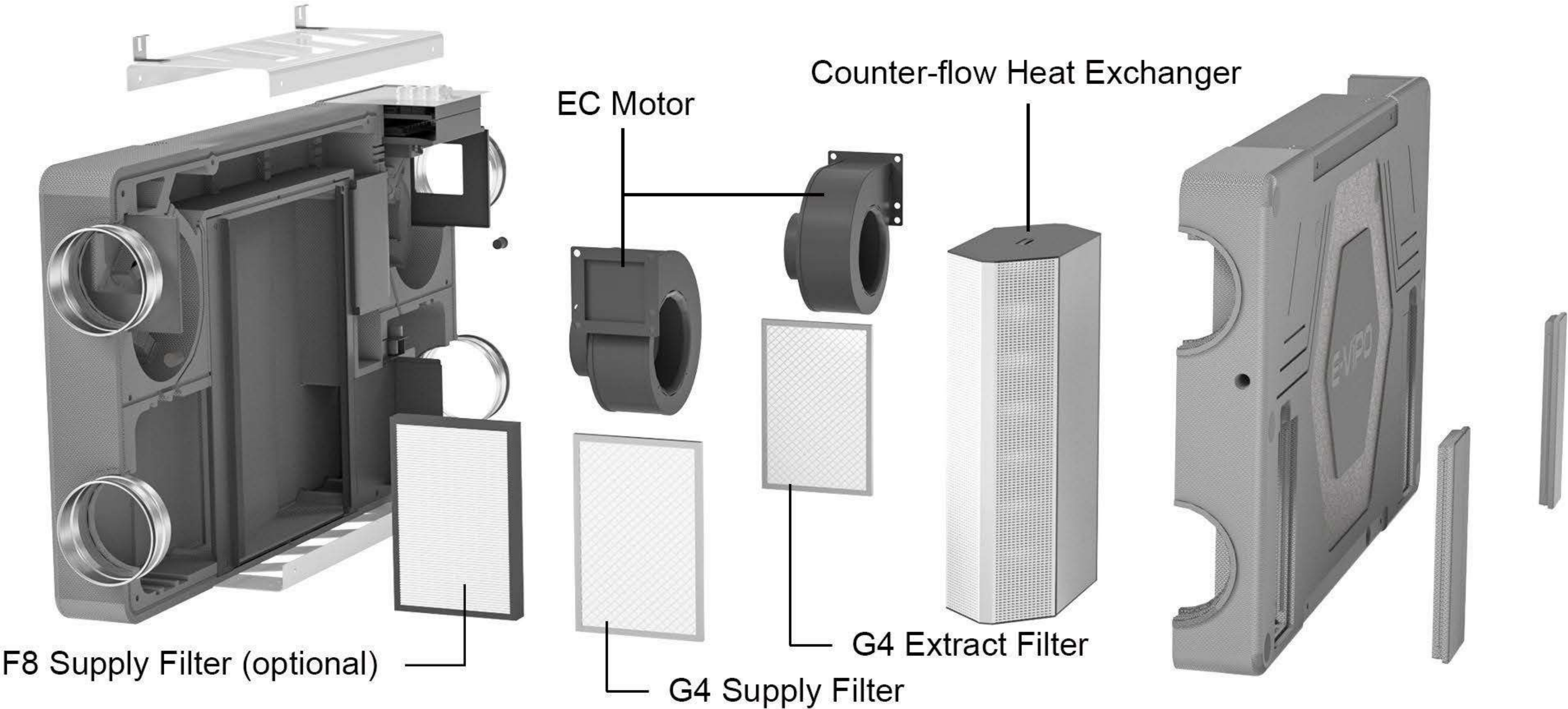
High performance Variable Speed Drive (VSD) EC motor has the features of low power consumption, quiet and high static pressure.
This not only reduces the long run electricity cost, but also ensures the air delivering to the room is sufficient after ducting.

Performance



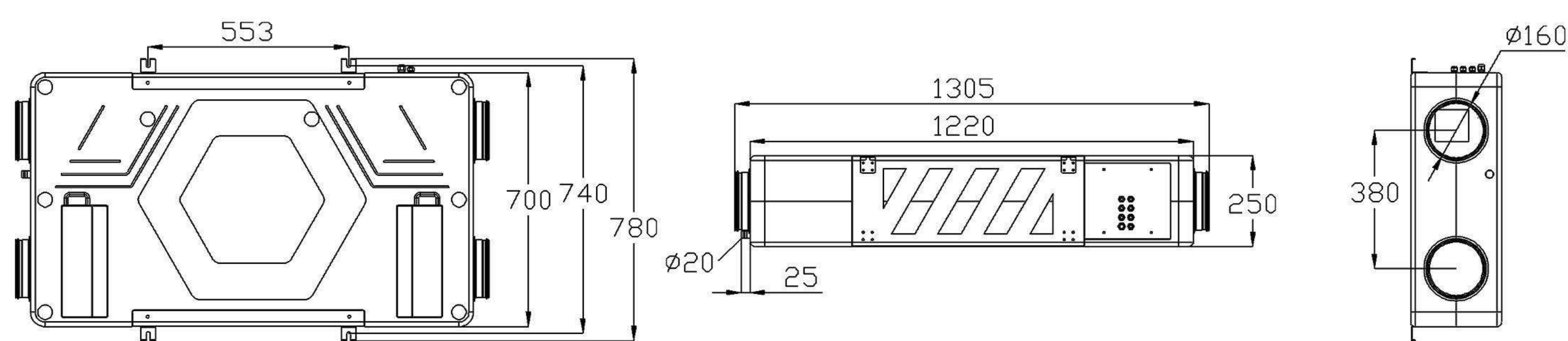
TECHNICAL SPECIFICATION

Model	WESTON-EV-CT-FP-300 / WESTON-EV-CT-FP-400
Fan Motor Type	EC
Max. Airflow [m3/h] (Standard)	300 @ 100Pa
Rated Max. Power [230V~50Hz] (Standard)	102W, 0.74A
Max. Airflow [m3/h]	400 @ 100Pa
Rated Max. Power [230V~50Hz]	214W, 1.4A
Power Input Range	200-240V~, 50/60Hz
Weight [kg]	29
Extract Filter	G4
Supply Filter	G4
Supply Filter	F8 (Optional)
Max. Static Pressure [Pa]	560
Heat / Energy Recovery Core Type	Counter-flow
Internal Insulation Material	EPP
Case Material	EPP
Transferred Air Temperature [°C]	(-25 to +50)
Operating Ambient Temperature [°C]	(+5 to +40)
Operating Ambient Relative Humidity [%]	<80
Connected Air Duct Diameter [mm]	160



OVERALL DIMENSION (mm)

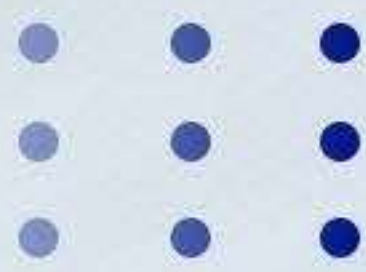
Drain connection is only available for HRV model





COLOR 7" CONTROL PANEL

Comprehensive Settings



DESIGN FOR COMFORT
HD TOUCHSCREEN CONTROL



Bypass Auto



Defrost Auto



RH Control Auto



CO₂ Control Auto



Weekly Timer



Boost Function



Independent Fan Control



5 Speeds



Filter Notification



Advanced Settings

BLACK & WHITE 3.5" CONTROL PANEL

AUTOMATION OPTION AVAILABLE



External Sensor
Option Available



Real Time Monitoring
of Air Quality



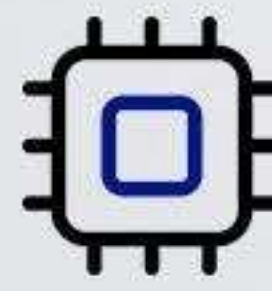
EXTERNAL WIFI BOX

WIRELESS CONNECTION

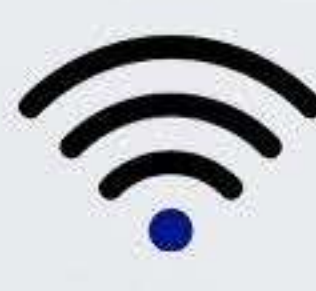
Connect the Smart Phone App &
Wireless External Sensors



SMART PHONE
APP



EXTERNAL
SENSORS



WIFI
CONNECTION



External Wall Switch

The 3-position wall switch has the basic functions of ventilation system ON/OFF, High/Low fan speed and bypass ON/OFF. When External Wall Switch is connected, other accessories is not allowed to be connected except External Boost Switch



External CO2 / RH & TEMP Sensor

Wireless External CO2 / Relative Humidity / Temperature Sensor can be connected with an External WiFi Box. Up to 8 external sensors can be connected to the control system. With a Color 7" Control Panel or smart phone APP, user can see all the sensor data. The external sensors will collect real-time data for automation of the ventilation system



External Boost Switch

When the boost switch is installed, user can press on the boost switch for maximum speed operation for a set period of time



External RH & TEMP Sensor

Wireless External Relative Humidity / Temperature Sensor can be connected with an External WiFi Box. Up to 8 external sensors can be connected to the control system. With a Color 7" Control Panel or smart phone APP, user can see all the sensor data. The external sensors will collect real-time data for automation of the ventilation system



External Boost Connection Box

The connection box can connect up to 10 External Boost Switch to the control system, user can install several boost switches for the rooms



External PM / RH & TEMP Sensor

Wireless External PM2.5 / Relative Humidity / Temperature Sensor can be connected with an External WiFi Box. Up to 8 external sensors can be connected to the control system. With a Color 7" Control Panel or smart phone APP, user can see all the sensor data. The external sensors will collect real-time data for automation of the ventilation system



External WiFi Box

The purpose of the External WiFi Box is to connect the smart phone APP and wireless External Sensors. User can choose to install the External WiFi Box only without the control panel and control the ventilation system via the smart phone APP



External Relay Board

External Electrical Heater / External Electrical Air Damper can be connected to the control system via the External Relay Board. Up to 2 external heaters and 2 external dampers can be connected. User can control the ON/OFF of the heaters on the Black & White 3.5" Control Panel / Color 7" Control Panel or the smart phone APP, while the air dampers will be in automation when connected



Black & White 3.5" Control Panel

This control panel has the displays of sensor data, the control of 5 level fan speeds, the modes of manual / auto / timer / away, the automation of bypass / defrost, the boost function / the control of heaters, and the alerts of filter / fault. Either Black & White 3.5" Control Panel or Color 7" Control Panel is allowed to be connected



Color 7" Control Panel

This control panel has the displays of sensor data, the control of 5 level fan speeds, the modes of manual / auto / timer / away, the automation of bypass / defrost, the boost function / the control of heaters, and the alerts of filter / fault. The Color 7" Control Panel has the settings of sensor parameters / bypass temperature / defrost temperature / boost duration / timer / away mode. Either Black & White 3.5" Control Panel or Color 7" Control Panel is allowed to be connected



Model	Black & White 3.5” Control Panel	Color 7” Control Panel	External WiFi Box (for APP)
Smart Phone APP	(optional) ✓	(optional) ✓	✓
Intake Air RH / TEMP Sensor Data Display	✓	✓	✓
Extract Air RH / TEMP Sensor Data Display	✓	✓	✓
Supply Air TEMP Sensor Data Display	✓	✓	N/A
Exhaust Air TEMP Sensor Data Display	✓	✓	N/A
Indoor CO ₂ Sensor Data Display	(optional) ✓	(optional) ✓	(optional) ✓
Indoor PM2.5 Sensor Data Display	(optional) ✓	(optional) ✓	(optional) ✓
Indoor RH Sensor Data Display	(optional) ✓	(optional) ✓	(optional) ✓
Indoor TEMP Sensor Data Display	(optional) ✓	(optional) ✓	(optional) ✓
Manual Supply / Extract Fan Speed 5 Level Control	✓	✓	✓
Automation Fan Speed Control	✓	✓	✓
Manual Bypass Control	✓	✓	✓
Automation Bypass Control	✓	✓	✓
Automation Defrost Control	✓	✓	✓
Defrost Indication	✓	✓	✓
Boost Function	✓	✓	✓
Boost Indication	✓	✓	✓
Weekly Timer (Periodic)	✓	✓	✓
Away Mode (Interval)	✓	✓	✓
Outdoor Damp Function	✓	✓	✓
Filter Alert	✓	✓	✓
Filter Operated Time Display	✓	✓	✓
Filter Reset	✓	✓	✓
Fault Alert	✓	✓	✓
Manual Heater Control	(optional) ✓	(optional) ✓	(optional) ✓
External Air Damper Automation	(optional) ✓	(optional) ✓	(optional) ✓
Setting of CO ₂ / PM2.5 / VOCs / RH Parameter	Default	✓	Default
Setting of Bypass Temperature	Default	✓	Default
Setting of Defrost Temperature	Default	✓	Default
Setting of Boost Duration	Default	✓	Default
Setting of Boost Condition (Extract Only / Supply Only / Both ON)	Default	✓	✓
Setting of Weekly Timer (Periodic with Different Fan Speed)	Default	✓	Default
Setting of Away Mode (Interval with Different Fan Speed)	Default	✓	✓
Setting of Outdoor Damp Condition	Default	✓	✓

WESTON

C L I M A T E