E-VIPO®

MVHR



HEAT / ENERGY RECOVERY VENTILATION SYSTEM



FLAT UNIT

F 150/250 / F 150/250 (E)

F 150/250
F 150/250 (E)

FEATURES

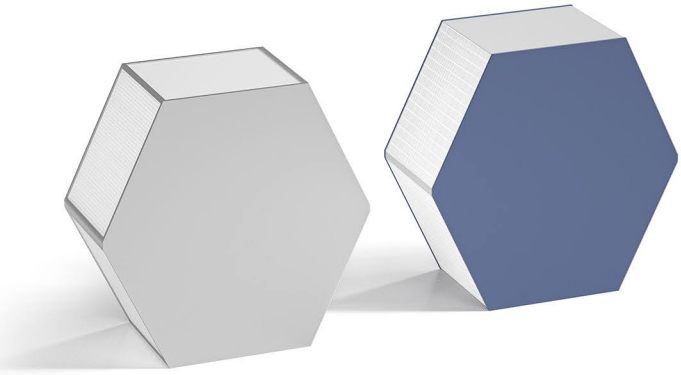
E-VIPO ventilation system is equipped with advanced high static pressure and energy saving constant flow EC motors, with high performance to ensure the sufficient delivering of air to each room. The ventilation system is also fitted with internal temperature sensors and relative humidity sensors as standard.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

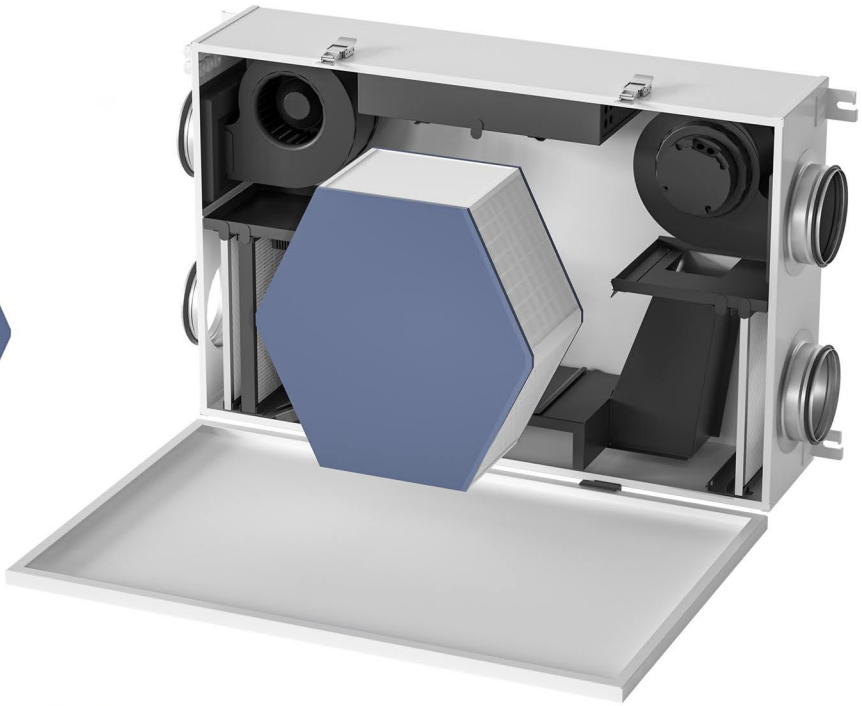




HRV/ERV

Counter-flow Heat /
Energy Recovery Core

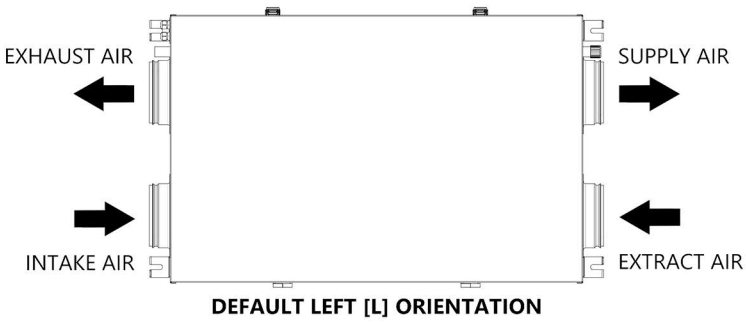




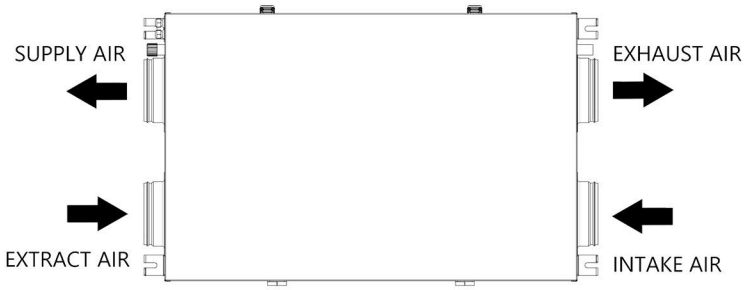
MIRROR INVERSION

Flexible for Installation

F 150/250 / F 150/250 (E)



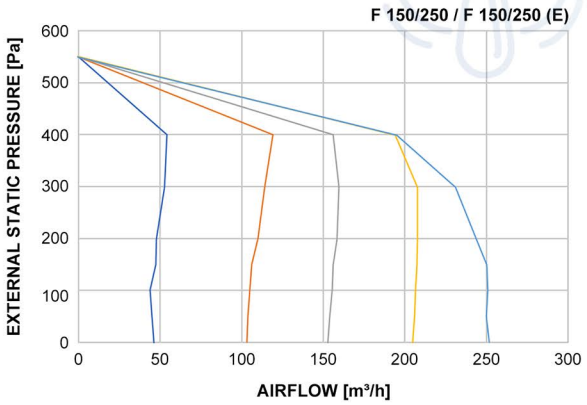
DEFAULT LEFT [L] ORIENTATION



MIRRORED RIGHT [R] ORIENTATION

PERFORMANCE

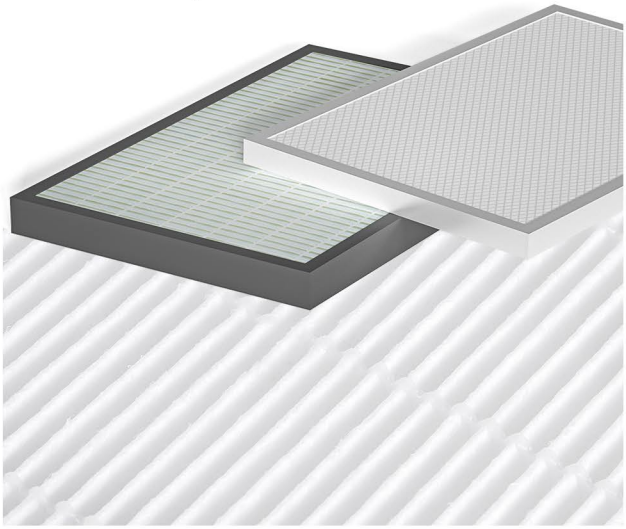
Constant Flow

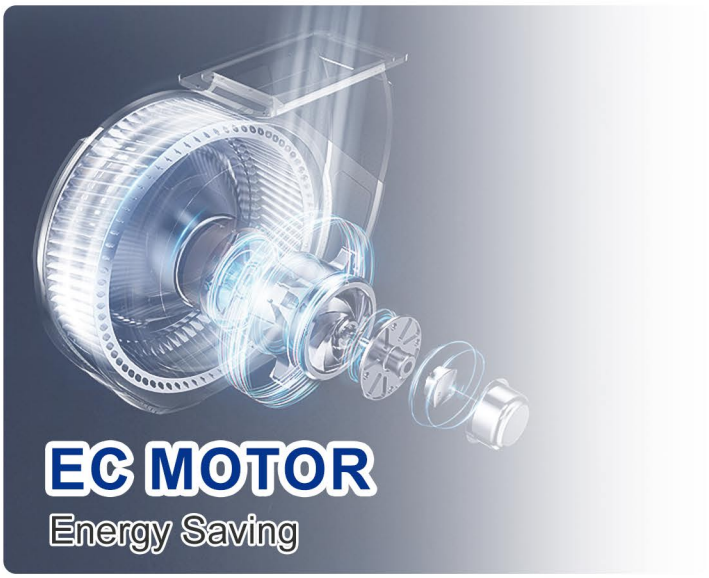


FILTER

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%).



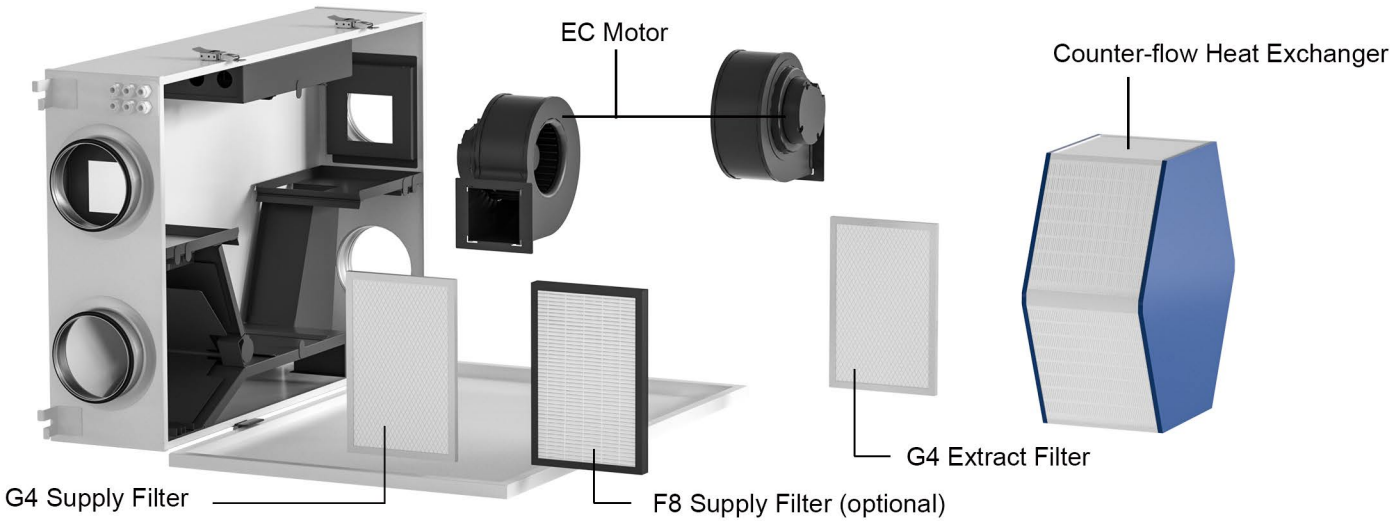


High performance Variable Speed Drive (VSD) EC motor has the features of low power consumption, quiet and high static pressure. This not only reduces the long run electricity cost, but also ensures the air delivering to the room is sufficient after ducting.

HEAT / ENERGY RECOVERY VENTILATION SYSTEM

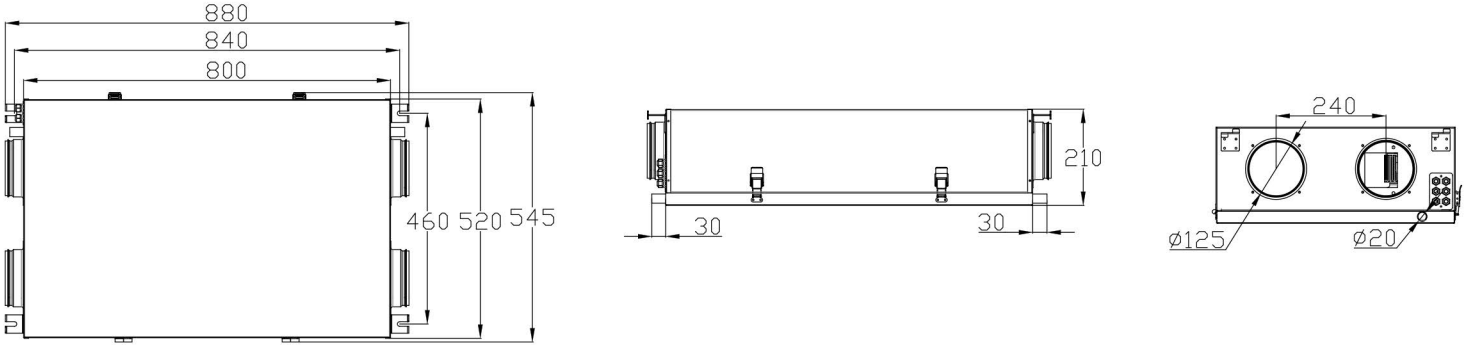
E-ViPO®

Name	Heat Recovery Ventilation System (**HRV**)		Energy Recovery Ventilation System (**ERV**)	
Model	F 150	F 250	F 150 (E)	F 250 (E)
Fan Motor Type	EC	EC	EC	EC
Max. Airflow [m^3/h]	150 @ 100Pa	250 @ 100Pa	150 @ 100Pa	250 @ 100Pa
Rated Max. Power [230V~50Hz]	54W, 0.41A	164W, 1.08A	49W, 0.38A	150W, 0.99A
Weight [kg]	28	28	28	28
Extract Filter	G4	G4	G4	G4
Supply Filter	G4	G4	G4	G4
Supply Filter	F8 (Optional)	F8 (Optional)	F8 (Optional)	F8 (Optional)
Max. Static Pressure [Pa]	550	550	550	550
Heat / Energy Recovery Core Type	Counter-flow Core	Counter-flow Core	Counter-flow Core	Counter-flow Core
Connected Air Duct Diameter [mm]	125	125	125	125
Power Input Range	200-240V~, 50/60Hz			
Internal Insulation Material	Polyethylene Foam			
Case Material	Coated Sheet Steel			
Transferred Air Temperature [°C]	(-25 to +50)			
Operating Ambient Temperature [°C]	(+5 to +40)			
Operating Ambient Relative Humidity [%]	<80			



DIMENSIONS

(mm)





COLOR 7" CONTROL PANEL

Comprehensive Settings

DESIGN FOR COMFORT

HD TOUCHSCREEN CONTROL

BLACK & WHITE 3.5" CONTROL PANEL

Variable Speed Local Demand Control



External Sensor Option Available

Real Time Monitoring of Air Quality

AUTOMATION OPTION AVAILABLE



EXTERNAL WIFI BOX

WIRELESS CONNECTION

Connect the Smart Phone App & Wireless External Sensors

APP

SMART PHONE APP

EXTERNAL SENSORS

WIFI CONNECTION



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 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 CO_2 / RH & TEMP Sensor

Wireless External CO_2 / 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 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



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



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



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 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 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



Internal CO_2 / PM / VOCs Sensor

Internal CO_2 / PM2.5 / VOCs Sensor can be connected inside the ventilation unit at the extract air side for automation of the ventilation system. User can see the sensor data on the Black & White 3.5” Control Panel / Color 7” Control Panel or the smart phone APP

HEAT / ENERGY RECOVERY VENTILATION SYSTEM

E-ViPO®

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
Extract Air CO_2 Sensor Data Display	(optional) ✓	(optional) ✓	(optional) ✓
Extract Air PM2.5 Data Display	(optional) ✓	(optional) ✓	(optional) ✓
Extract Air VOCs Data Display	(optional) ✓	(optional) ✓	(optional) ✓
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	✓	✓



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