



HEAT RECOVERY VENTILATION SYSTEM

COUNTER-FLOW

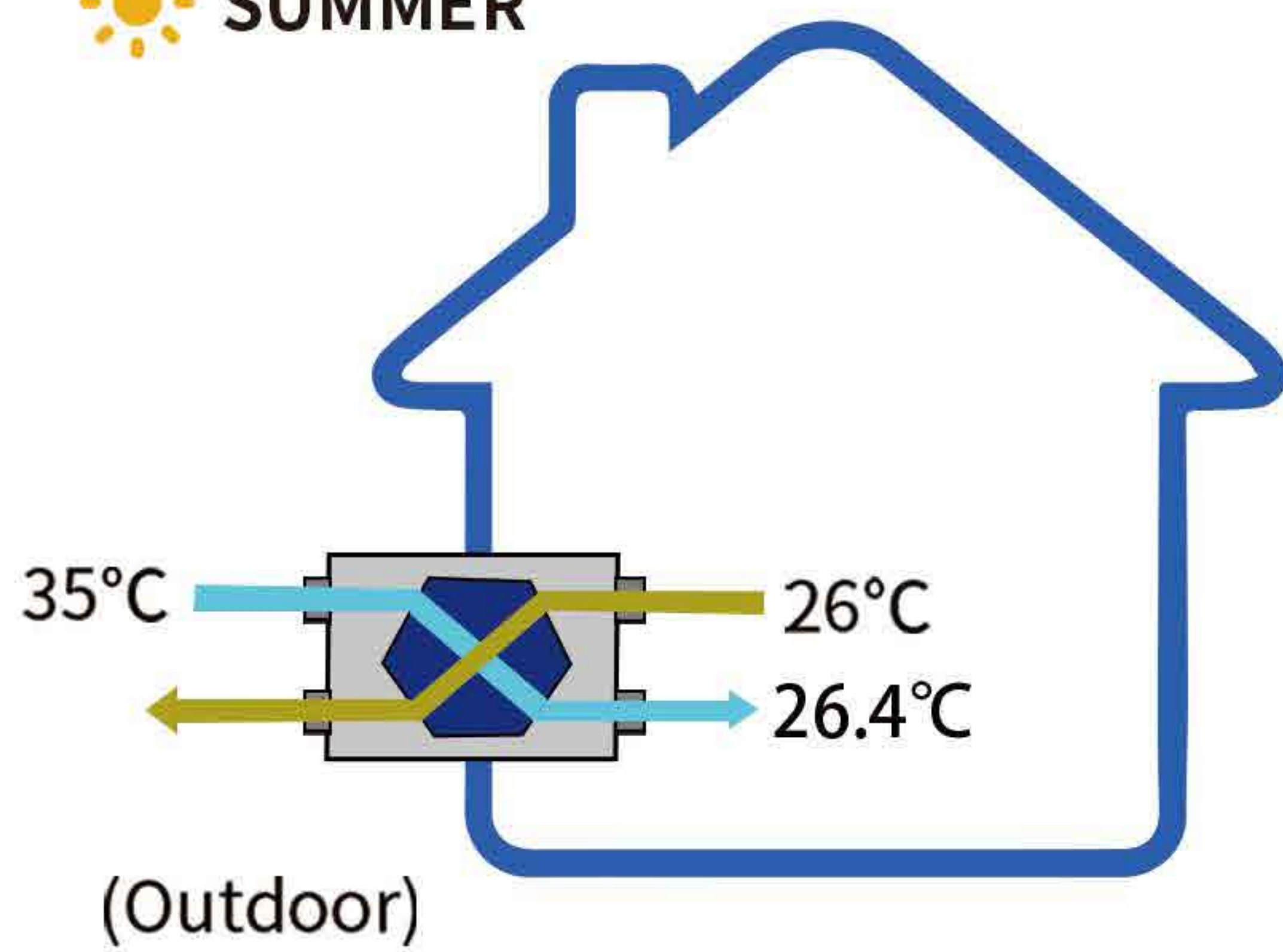
High Efficiency

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 has a high heat recovery efficiency.

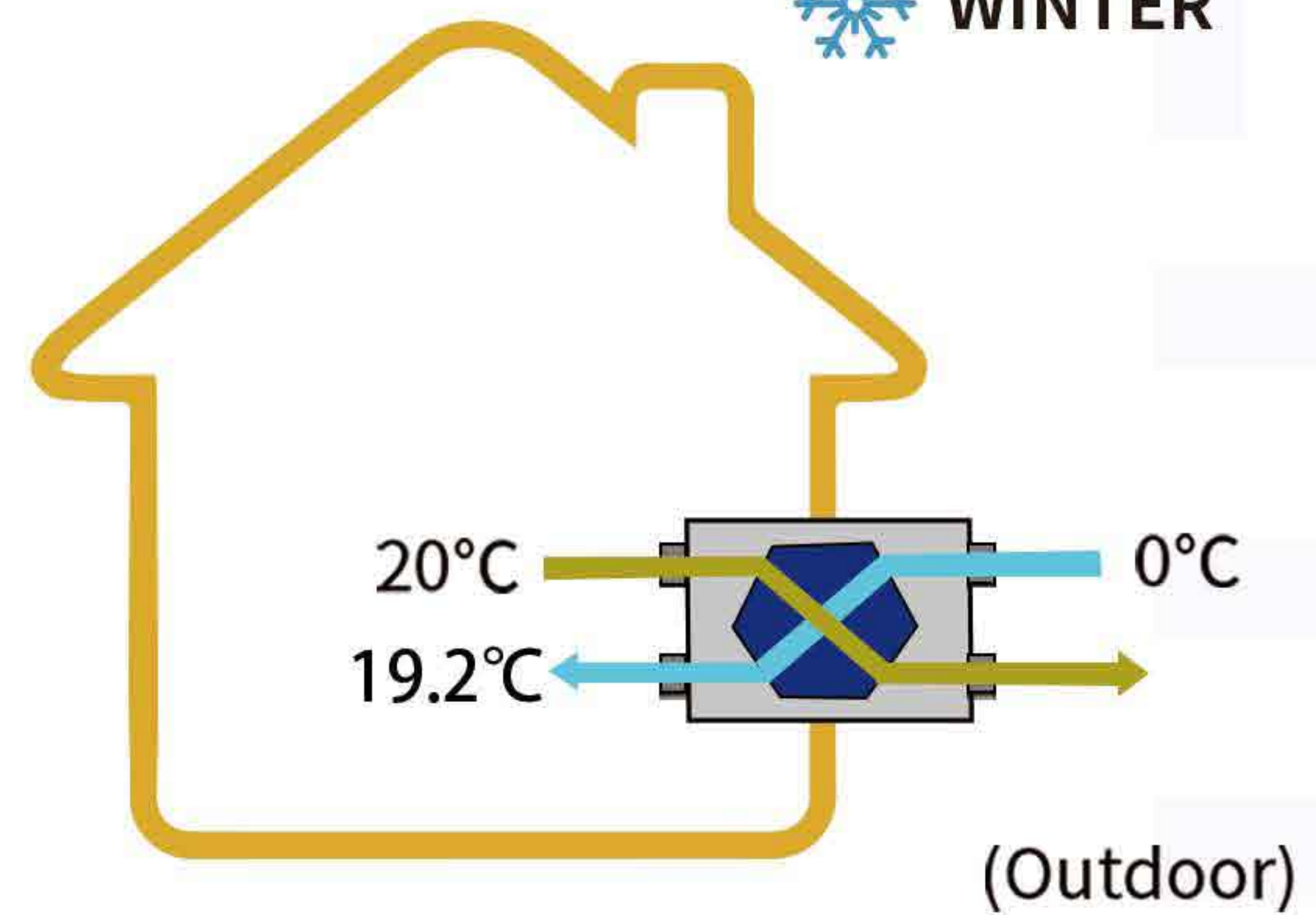
The core is washable and durable, anti-mold, anti-viral and anti-bacterial.



SUMMER



WINTER



EC MOTOR

Energy Saving

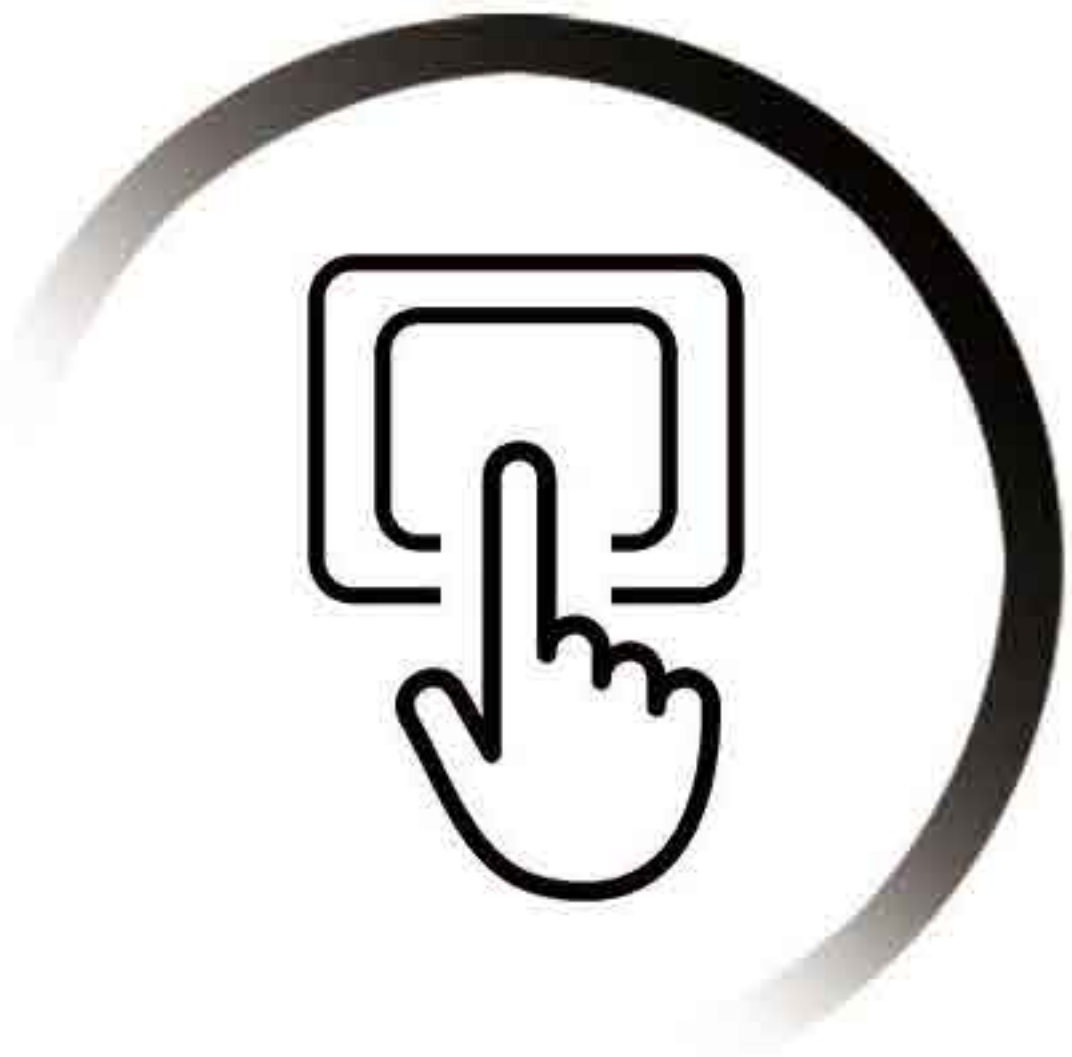
High performance Variable Speed Drive (VSD) EC motor has the features of low power consumption, quiet and high static pressure. This not only reduces the long run electricity cost, but also ensures the air delivering to the room is sufficient after ducting.



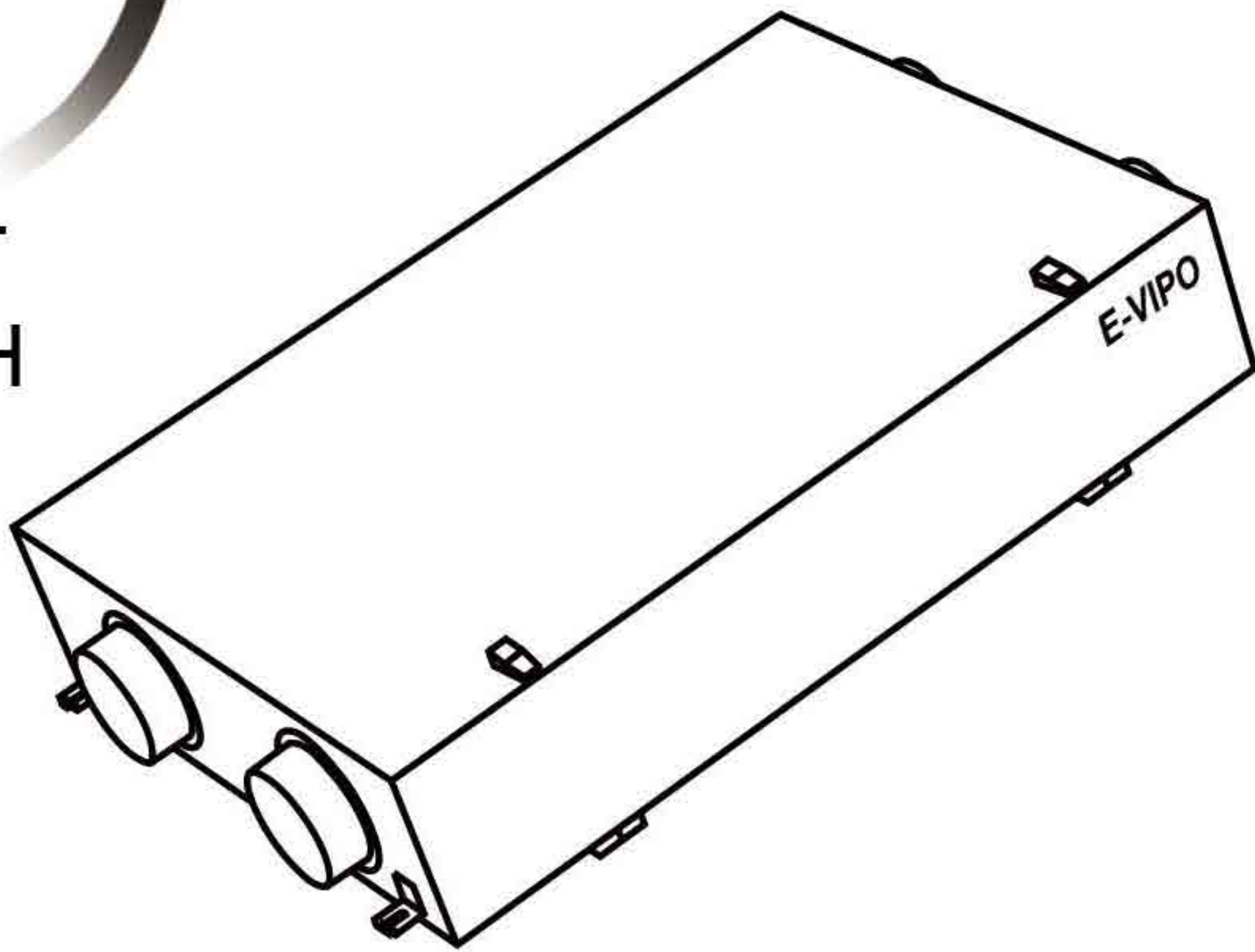
AIRFLOWS

@100Pa

The airflows of the models are tested at 100Pa standard condition. Comparing to traditional way of testing at 0Pa, 100Pa ensures a sufficient amount of airflows delivering to each room.



BOOST SWITCH



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.

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%).

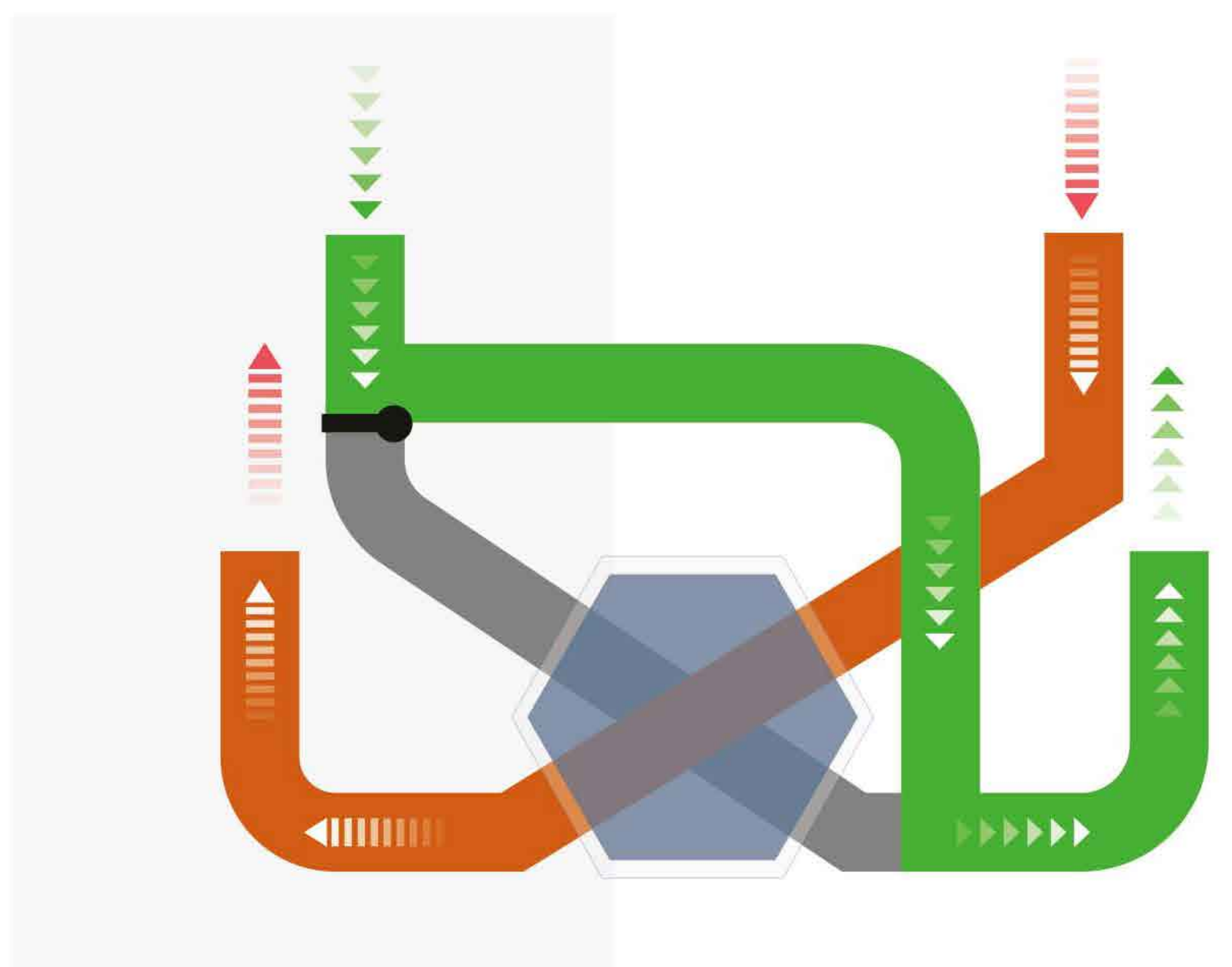


Bypass

BYPASS DAMPER

Automation

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.



CONSTANT FLOW VENTILATION SYSTEM

 100m³/h ~ 180m³/h

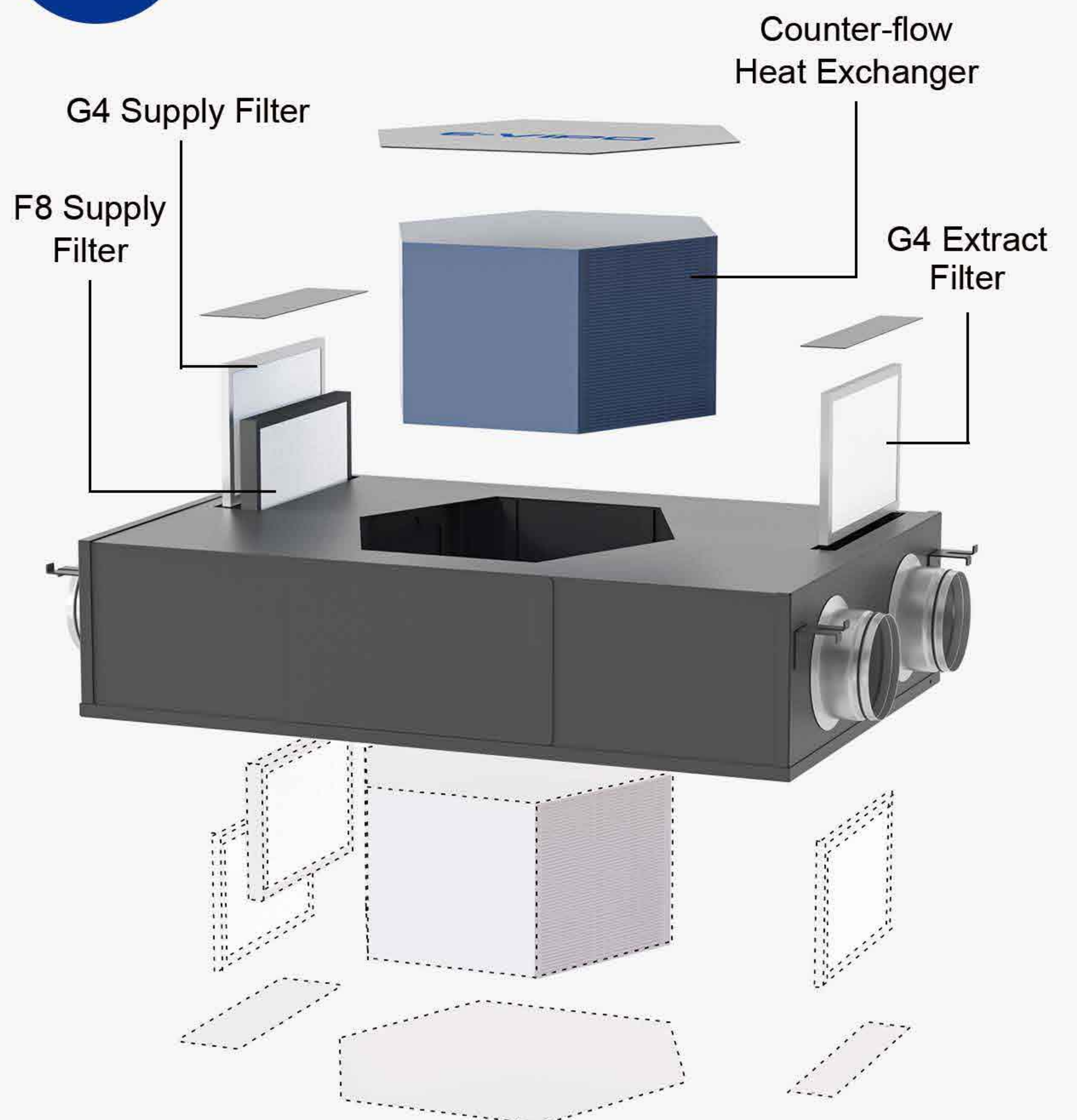
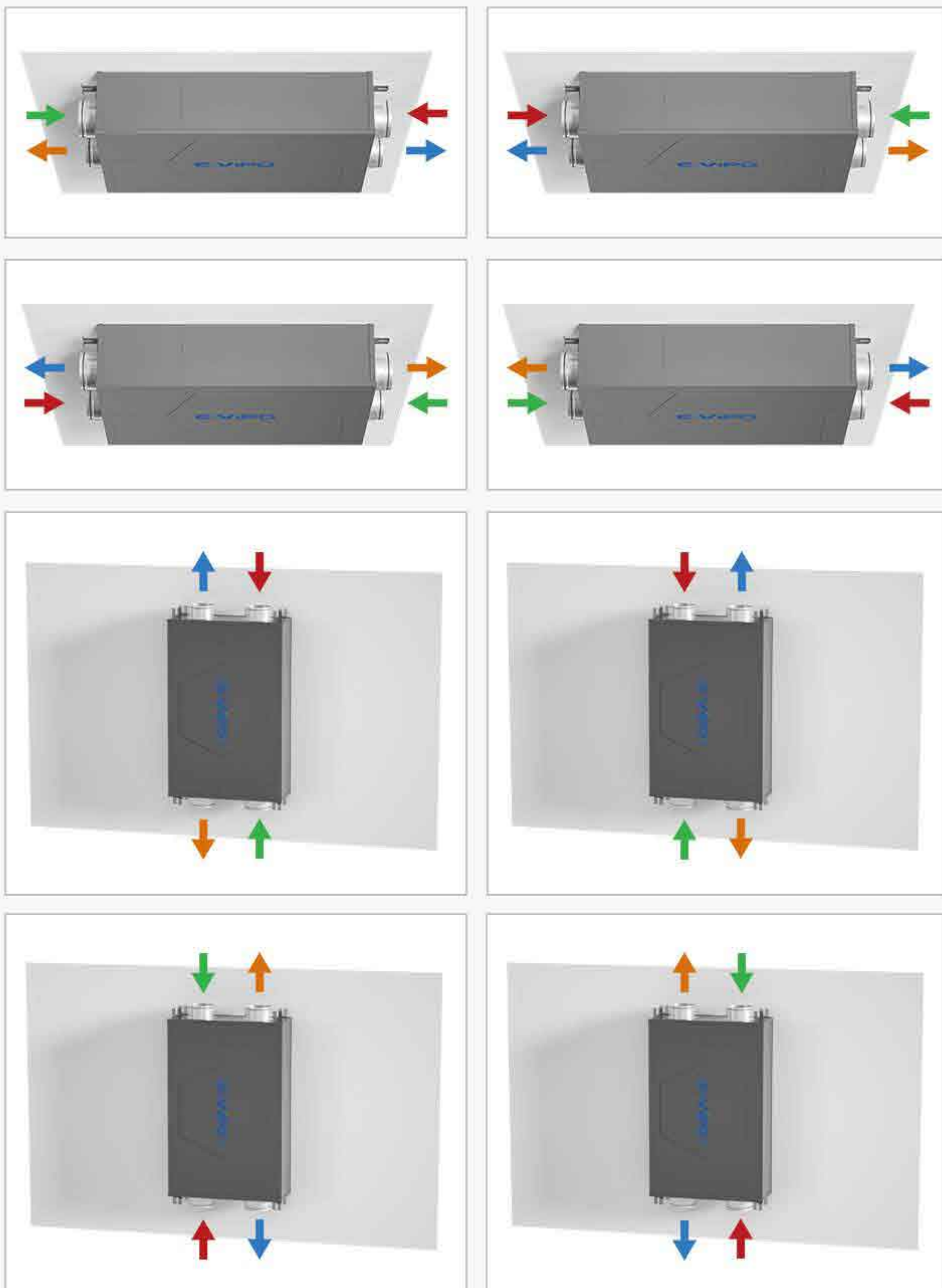
195 THIN mm



CS FLEX SERIES

FLEXIBLE INSTALLATION


■ OA
 ■ RA
 ■ EA
 ■ SA



MULTIPLE INSTALLATION

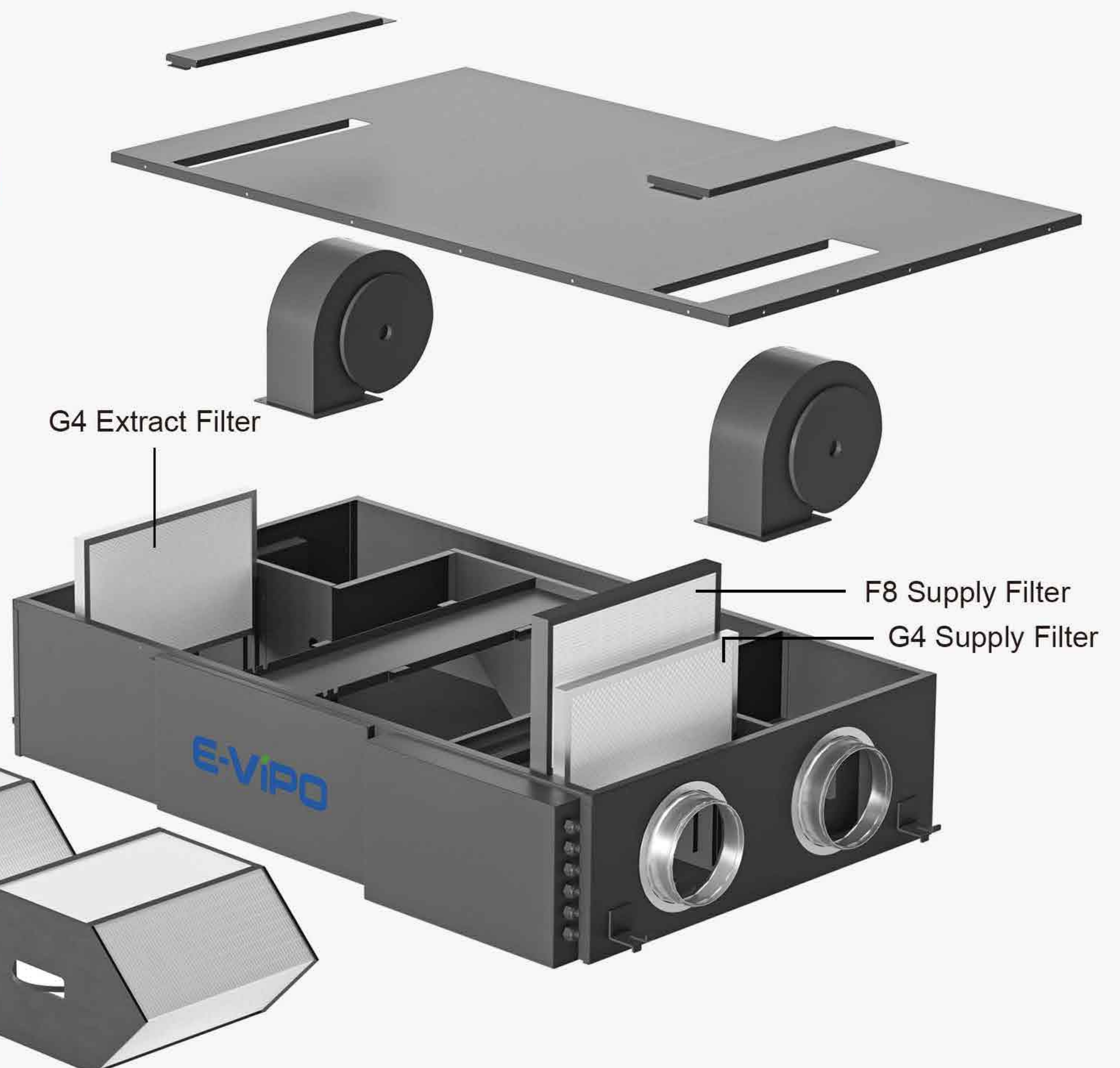


REDUCE THE SPACE IN FALSE CEILING

 200m³/h ~ 300m³/h


ECO

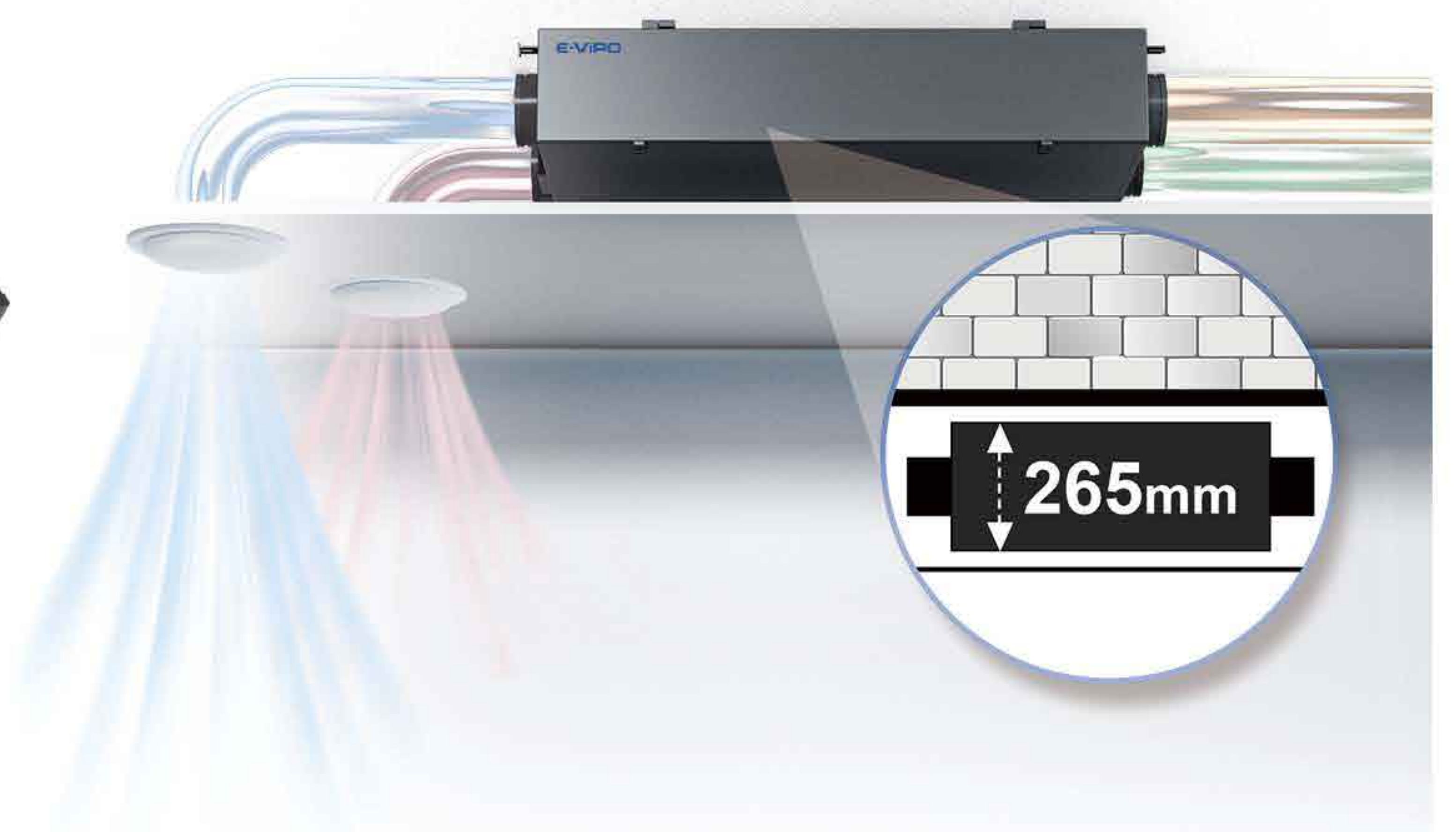
CS ECO SERIES



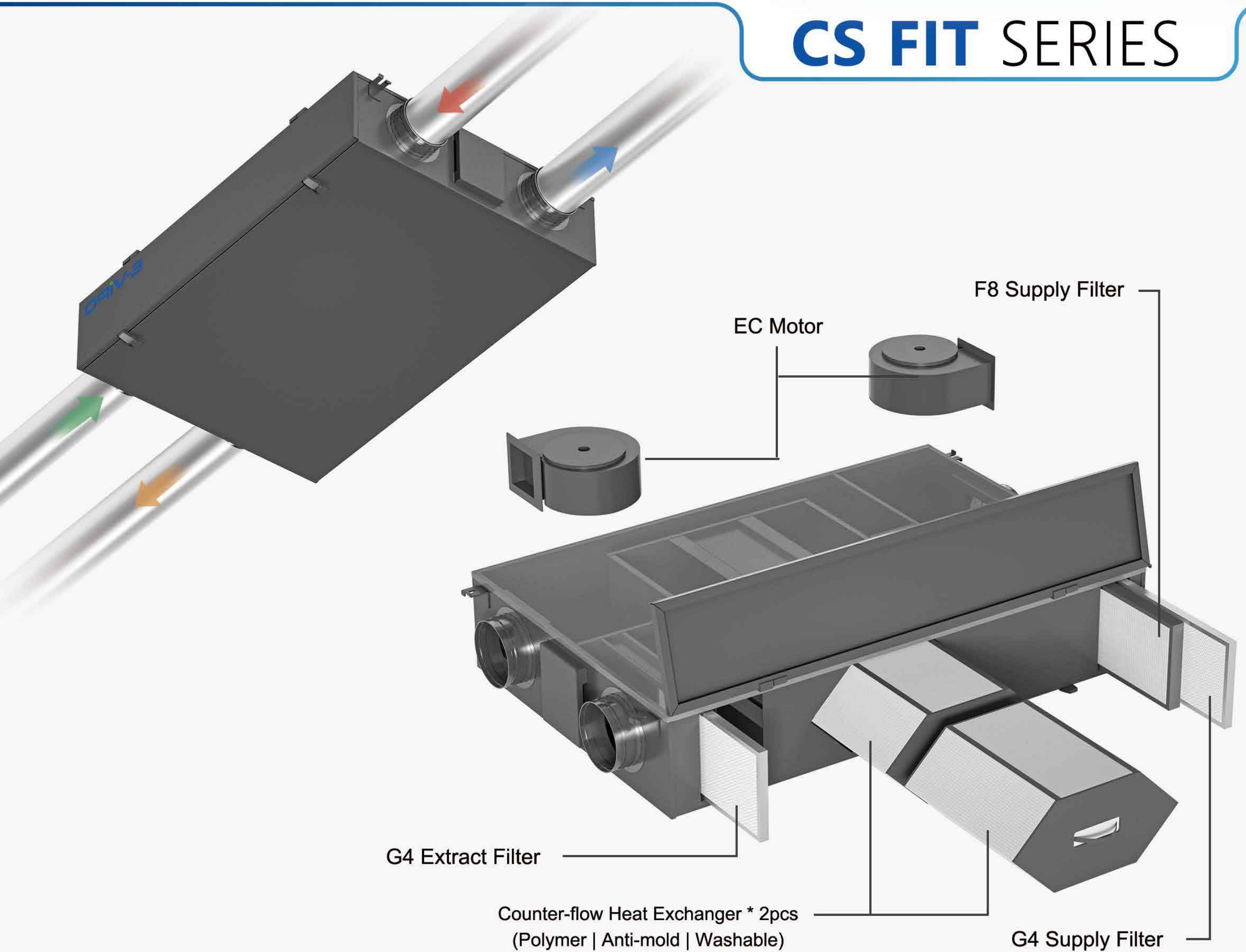
Counter-flow Heat Exchanger * 2pcs
(Polymer | Anti-mold | Washable)

SIDE SERVICE PANEL


 350m³/h ~ 400m³/h



CS FIT SERIES



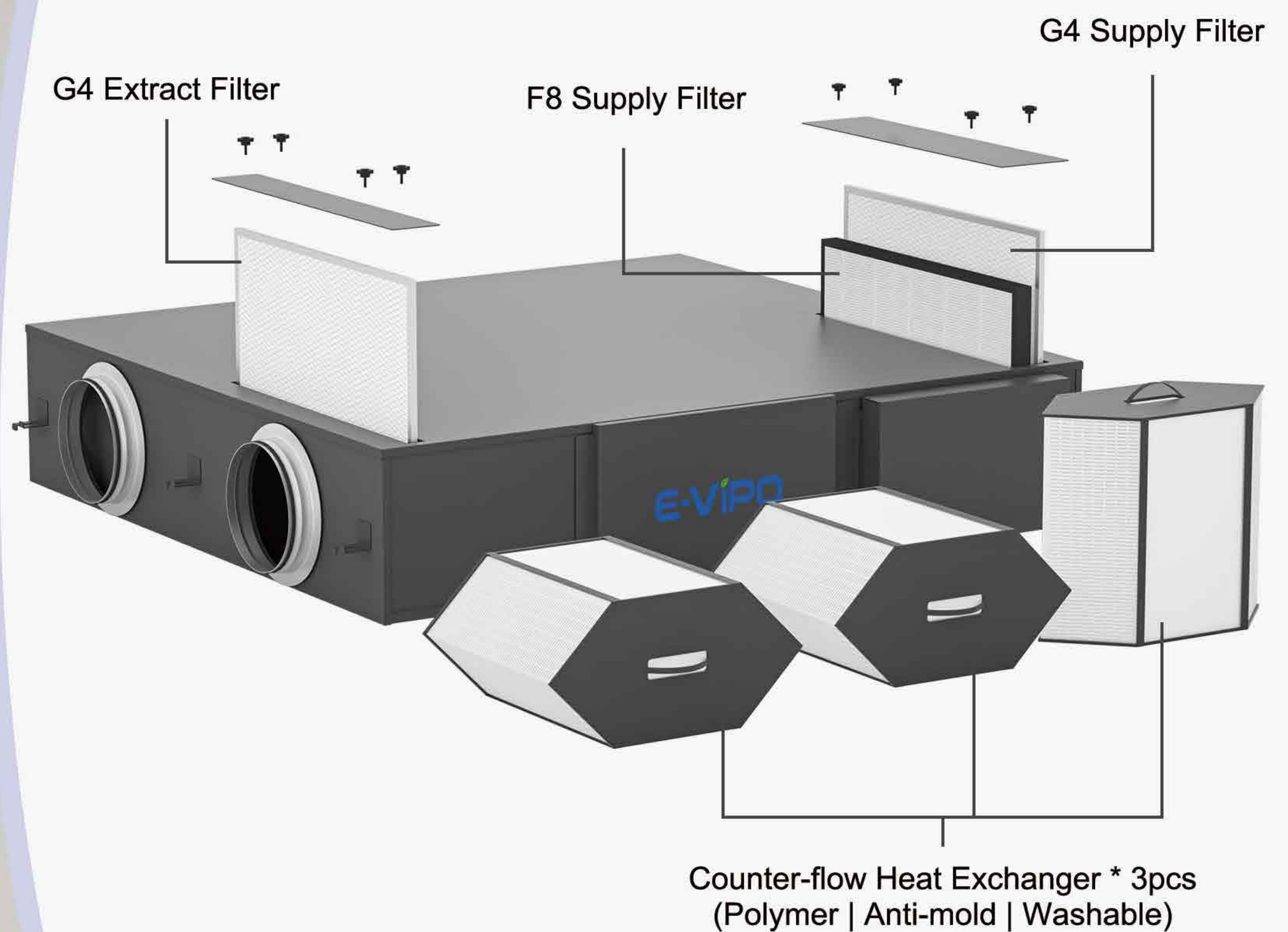
HEAT RECOVERY VENTILATION SYSTEM

 450m³/h ~ 550m³/h

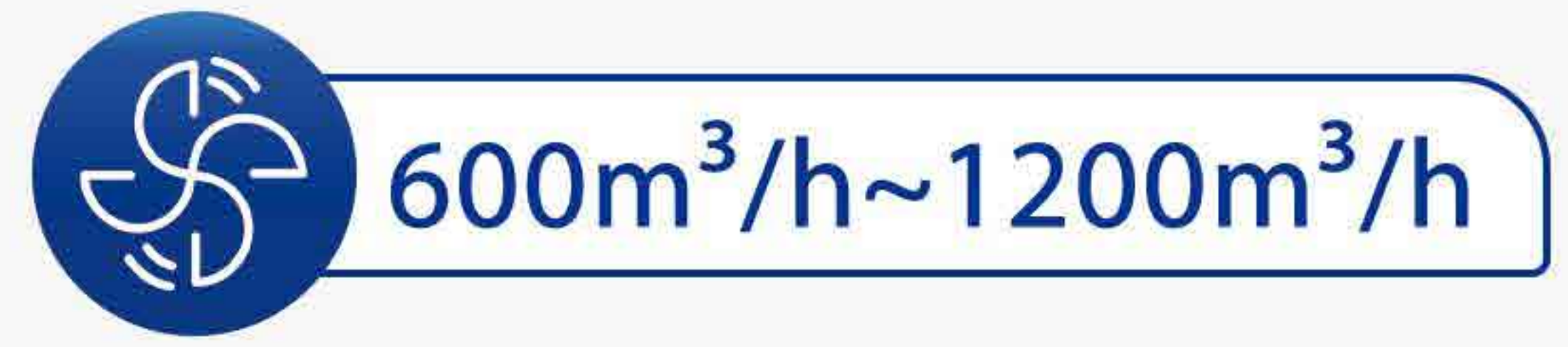


EVO

CS EVO SERIES

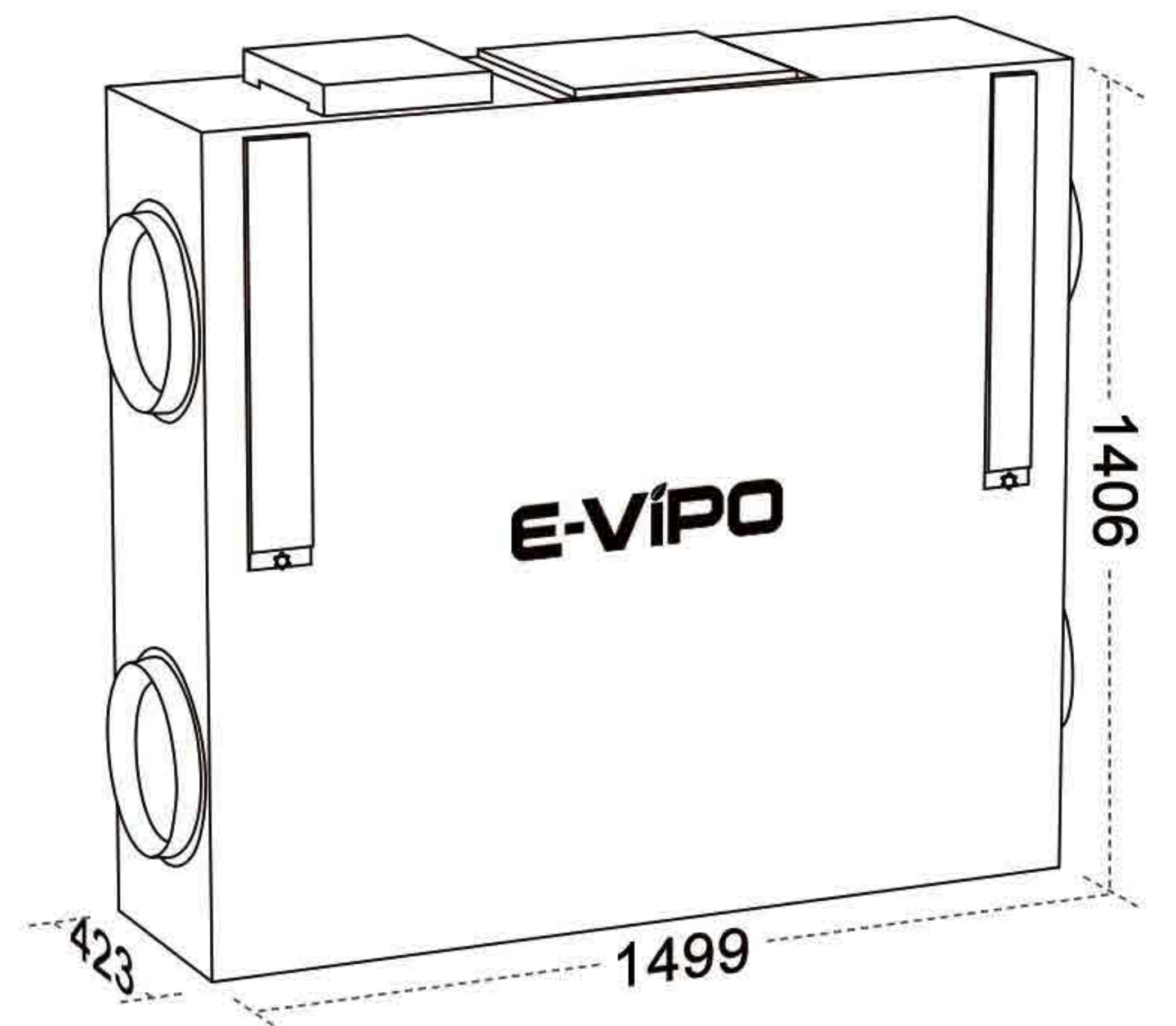
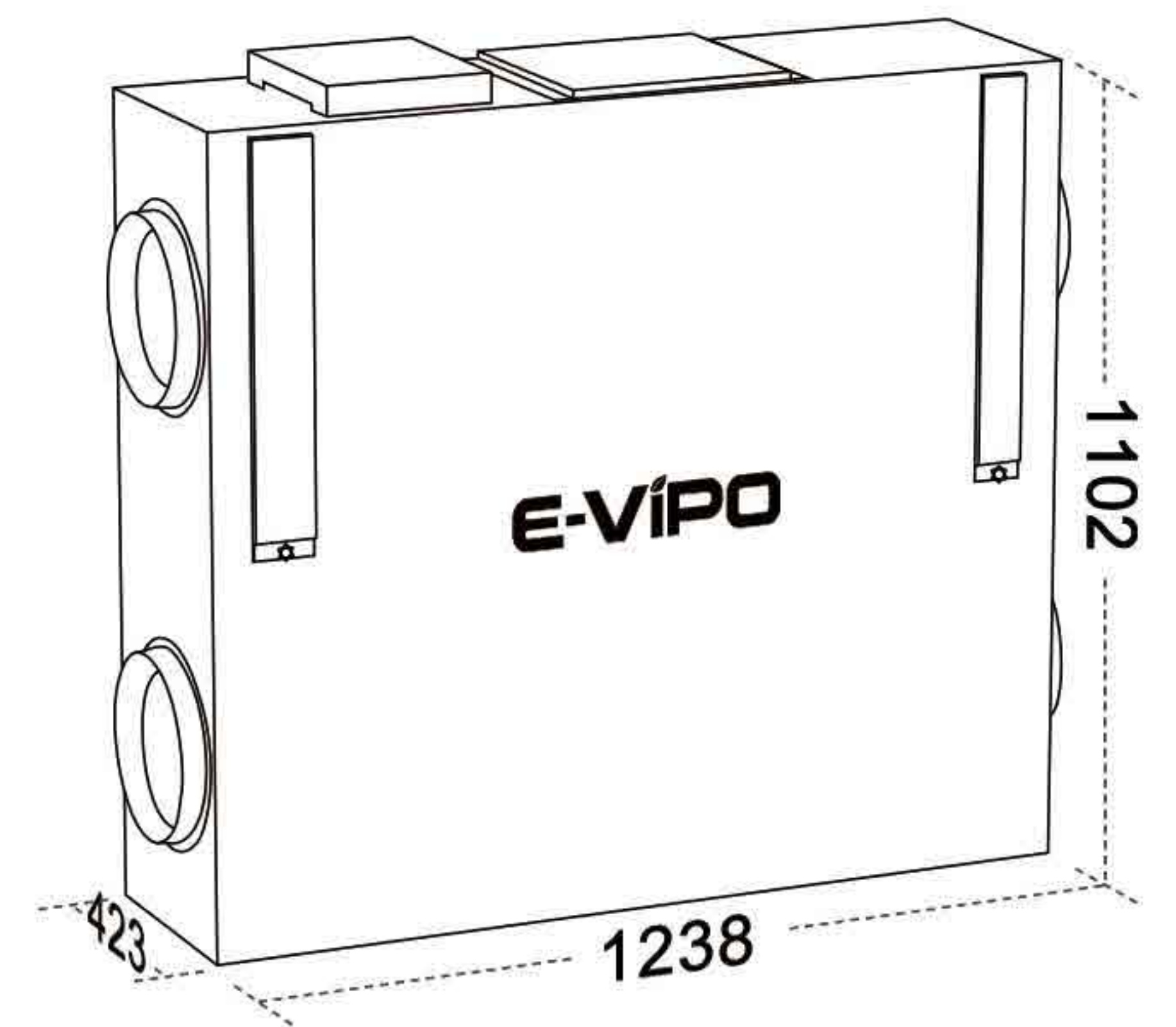
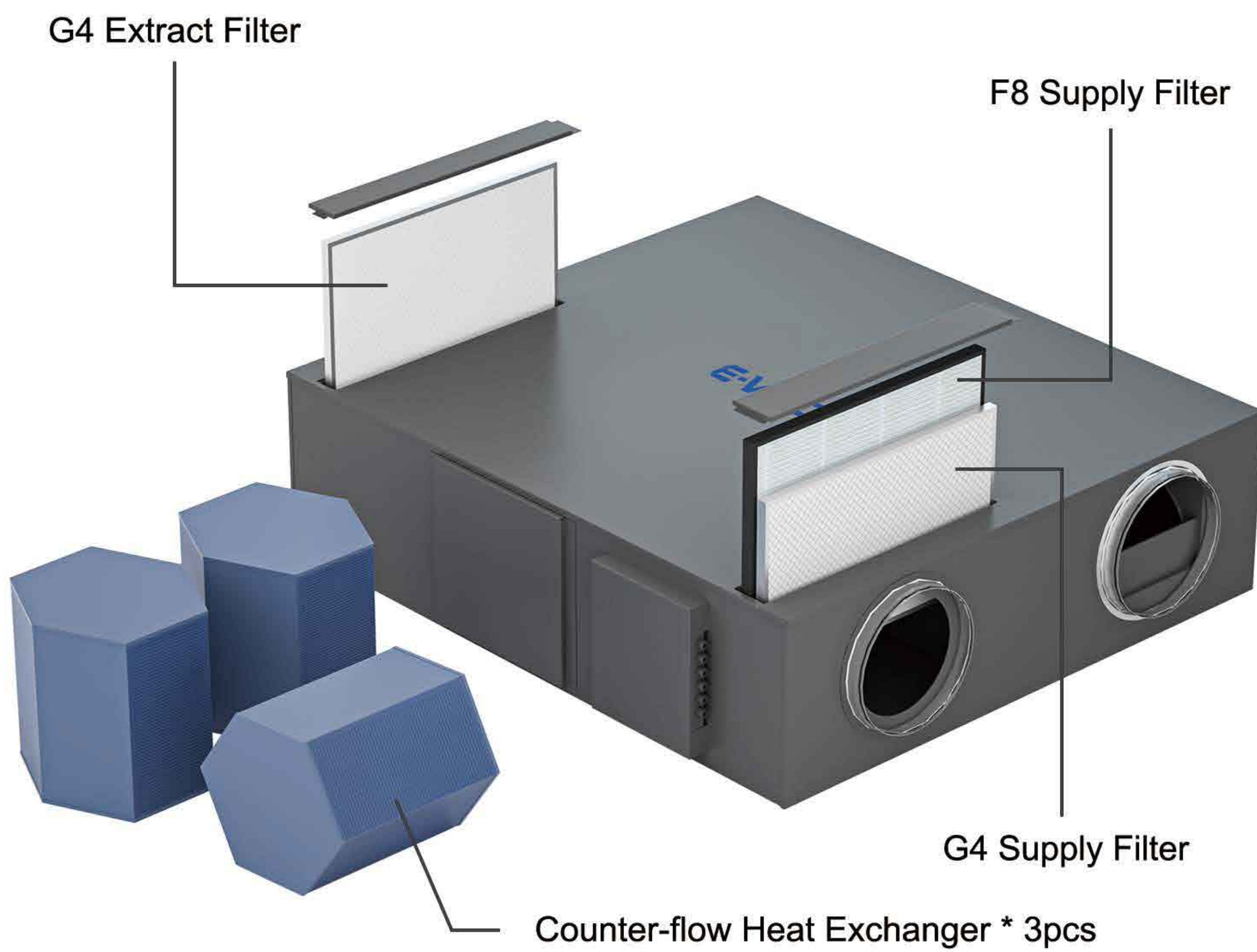


RESIDENTIAL | COMMERCIAL VENTILATION



CS PRO

CS PLUS



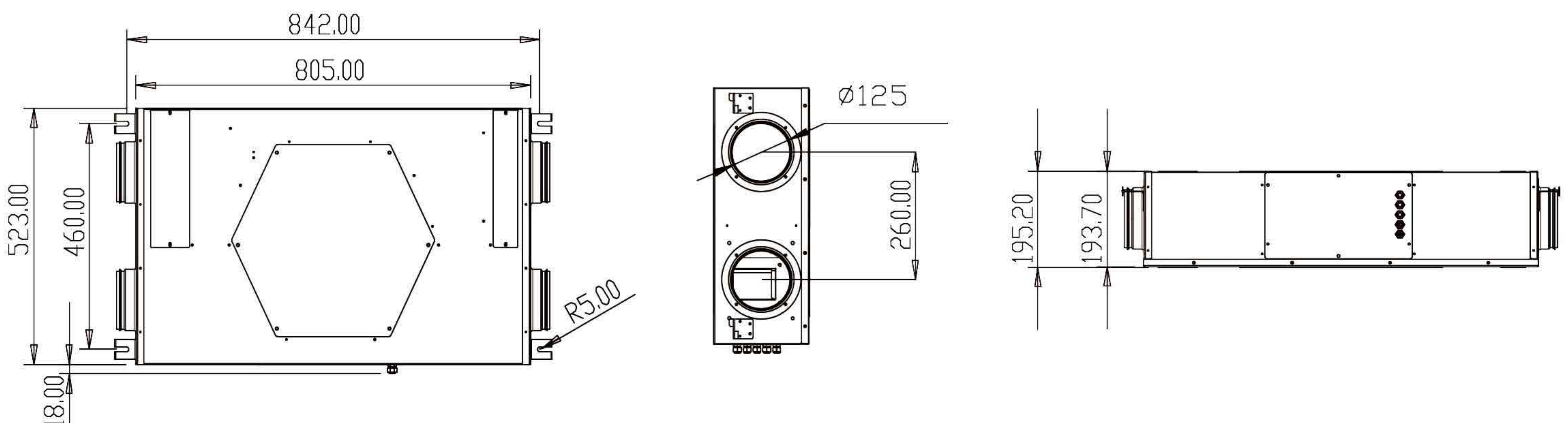
DIMENSION(mm)

TECHNICAL SPECIFICATION

Model	CS100-ERV-B-Z-EC	CS150-ERV-B-Z-EC	CS180-ERV-B-Z-EC
Fan Motor Type	EC	EC	EC
Max. Airflow [m ³ /h]	100 @ 100Pa	150 @ 100Pa	180 @ 100Pa
Rated Max. Power	230V~50Hz, 50W, 0.4A	230V~50Hz, 85W, 0.6A	230V~50Hz, 105W, 0.8A
Power Input Range	200-240V~, 50/60Hz	200-240V~, 50/60Hz	200-240V~, 50/60Hz
Net Weight [kg]	25	25	25
Extract Filter	G4	G4	G4
Supply Filter	G4	G4	G4
Supply Filter	F8 (Optional)	F8 (Optional)	F8 (Optional)
Max. Static Pressure [Pa]	415	454	528
Heat Exchanger Type	Counter-flow	Counter-flow	Counter-flow
Heat Recovery Efficiency [%]	85-96	80-96	77-96
Internal Insulation Material	Polyethylene Foam	Polyethylene Foam	Polyethylene Foam
Case Material	Coated Sheet Steel	Coated Sheet Steel	Coated Sheet Steel
Transferred Air Temperature [°C]	(-25 to +50)	(-25 to +50)	(-25 to +50)
Operating Ambient Temperature [°C]	(+5 to +40)	(+5 to +40)	(+5 to +40)
Operating Ambient Relative Humidity [%]	<80	<80	<80
Connected Air Duct Diameter [mm]	125	125	125

* A 10% reduction of supply airflow may occur when Supply Filter F8 applied

OVERALL DIMENSION (mm)

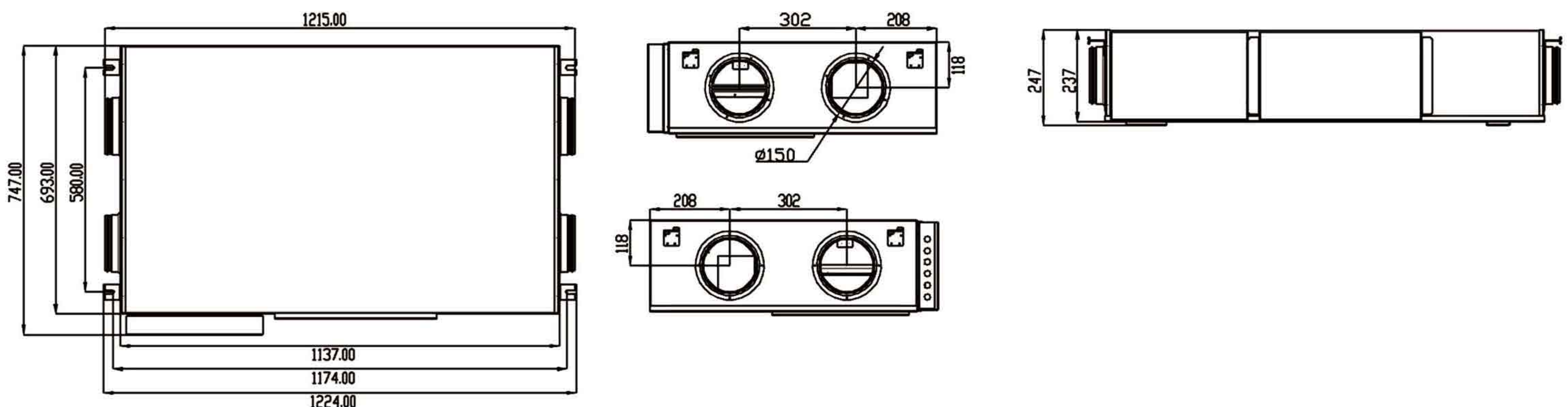


TECHNICAL SPECIFICATION

Model	CS200-ERV-B-Z-EC	CS250-ERV-B-Z-EC	CS300-ERV-B-Z-EC
Fan Motor Type	EC	EC	EC
Max. Airflow [m ³ /h]	200 @ 100Pa	250 @ 100Pa	300 @ 100Pa
Rated Max. Power	230V~50Hz, 73W, 0.6A	230V~50Hz, 102W, 0.7A	230V~50Hz, 142W, 1A
Power Input Range	200-240V~, 50/60Hz	200-240V~, 50/60Hz	200-240V~, 50/60Hz
Net Weight [kg]	49.3	49.3	49.3
Extract Filter	G4	G4	G4
Supply Filter	G4	G4	G4
Supply Filter	F8 (Optional)	F8 (Optional)	F8 (Optional)
Max. Static Pressure [Pa]	365	415	410
Heat Exchanger Type	Counter-flow	Counter-flow	Counter-flow
Heat Recovery Efficiency [%]	90-96	87-96	84-96
Internal Insulation Material	Polyethylene Foam	Polyethylene Foam	Polyethylene Foam
Case Material	Coated Sheet Steel	Coated Sheet Steel	Coated Sheet Steel
Transferred Air Temperature [°C]	(-25 to +50)	(-25 to +50)	(-25 to +50)
Operating Ambient Temperature [°C]	(+5 to +40)	(+5 to +40)	(+5 to +40)
Operating Ambient Relative Humidity [%]	<80	<80	<80
Connected Air Duct Diameter [mm]	150	150	150

* A 10% reduction of supply airflow may occur when Supply Filter F8 applied

OVERALL DIMENSION (mm)

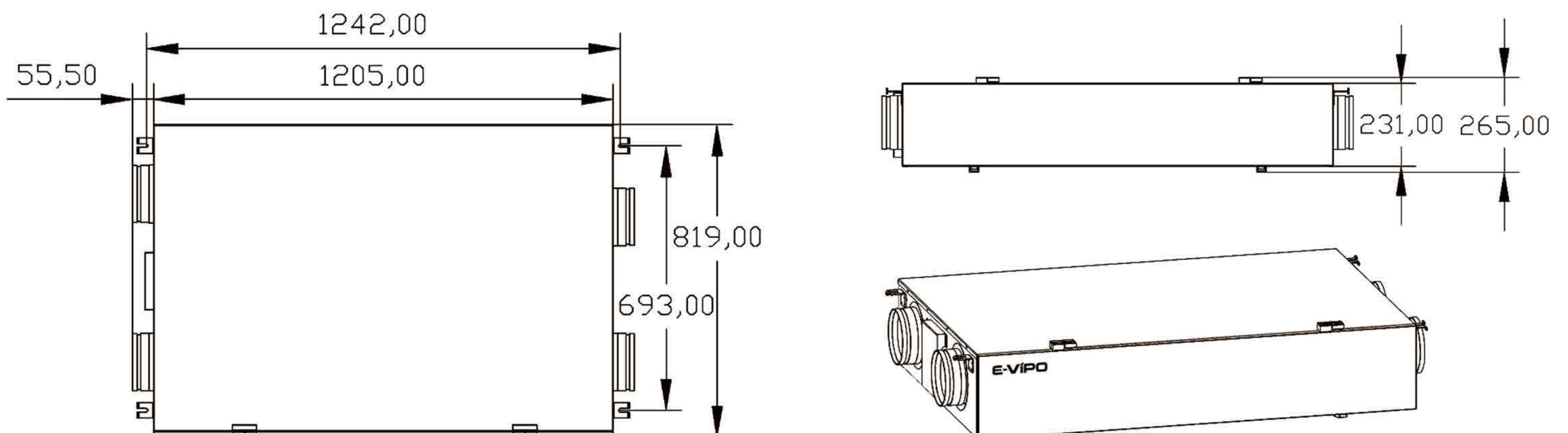


TECHNICAL SPECIFICATION

Model	CS350-ERV-B-Z-EC	CS400-ERV-B-Z-EC
Fan Motor Type	EC	EC
Max. Airflow [m ³ /h]	350 @ 100Pa	400 @ 100Pa
Rated Max. Power	230V~50Hz, 160W, 1A	230V~50Hz, 218W, 1.3A
Power Input Range	200-240V~, 50/60Hz	200-240V~, 50/60Hz
Net Weight [kg]	60.3	60.3
Extract Filter	G4	G4
Supply Filter	G4	G4
Supply Filter	F8 (Optional)	F8 (Optional)
Max. Static Pressure [Pa]	585	585
Heat Exchanger Type	Counter-flow	Counter-flow
Heat Recovery Efficiency [%]	84-96	82-96
Internal Insulation Material	Polyethylene Foam	Polyethylene Foam
Case Material	Coated Sheet Steel	Coated Sheet Steel
Transferred Air Temperature [°C]	(-25 to +50)	(-25 to +50)
Operating Ambient Temperature [°C]	(+5 to +40)	(+5 to +40)
Operating Ambient Relative Humidity [%]	<80	<80
Connected Air Duct Diameter [mm]	150	150

* A 10% reduction of supply airflow may occur when Supply Filter F8 applied

OVERALL DIMENSION (mm)

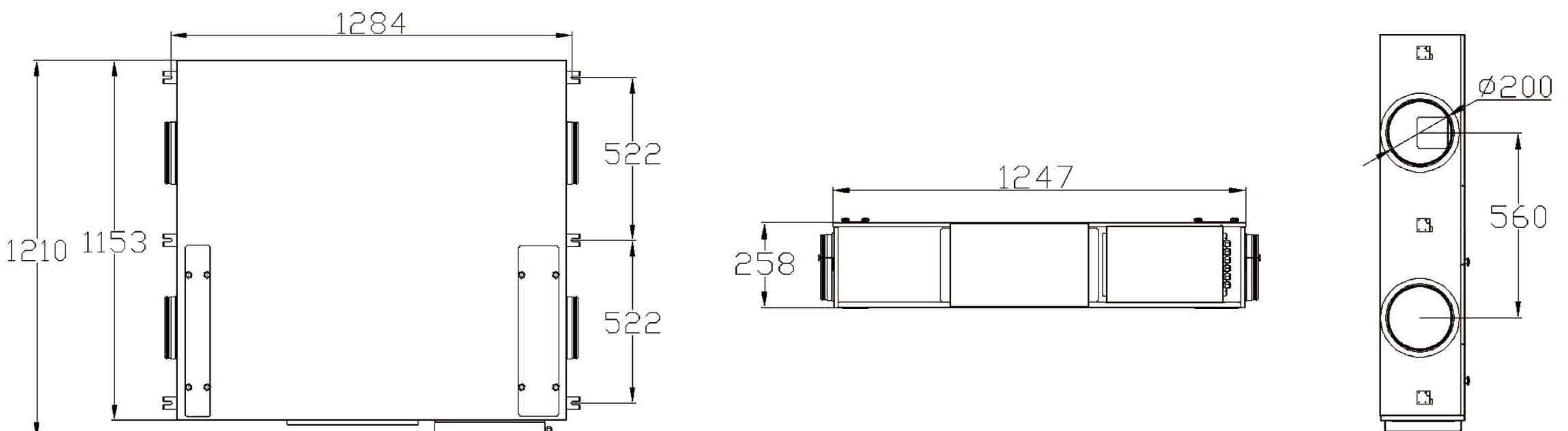


TECHNICAL SPECIFICATION

Model	CS450-ERV-B-Z-EC	CS500-ERV-B-Z-EC	CS550-ERV-B-Z-EC
Fan Motor Type	EC	EC	EC
Max. Airflow [m ³ /h]	450 @ 100Pa	500 @ 100Pa	550 @ 100Pa
Rated Max. Power	230V~50Hz, 235W, 1.6A	230V~50Hz, 310W, 2A	230V~50Hz, 370W, 2.4A
Power Input Range	200-240V~, 50/60Hz	200-240V~, 50/60Hz	200-240V~, 50/60Hz
Net Weight [kg]	77	77	77
Extract Filter	G4	G4	G4
Supply Filter	G4	G4	G4
Supply Filter	F8 (Optional)	F8 (Optional)	F8 (Optional)
Max. Static Pressure [Pa]	570	570	570
Heat Exchanger Type	Counter-flow	Counter-flow	Counter-flow
Heat Recovery Efficiency [%]	87-96	84-96	80-96
Internal Insulation Material	Polyethylene Foam	Polyethylene Foam	Polyethylene Foam
Case Material	Coated Sheet Steel	Coated Sheet Steel	Coated Sheet Steel
Transferred Air Temperature [°C]	(-25 to +50)	(-25 to +50)	(-25 to +50)
Operating Ambient Temperature [°C]	(+5 to +40)	(+5 to +40)	(+5 to +40)
Operating Ambient Relative Humidity [%]	<80	<80	<80
Connected Air Duct Diameter [mm]	200	200	200

* A 10% reduction of supply airflow may occur when Supply Filter F8 applied

OVERALL DIMENSION (mm)

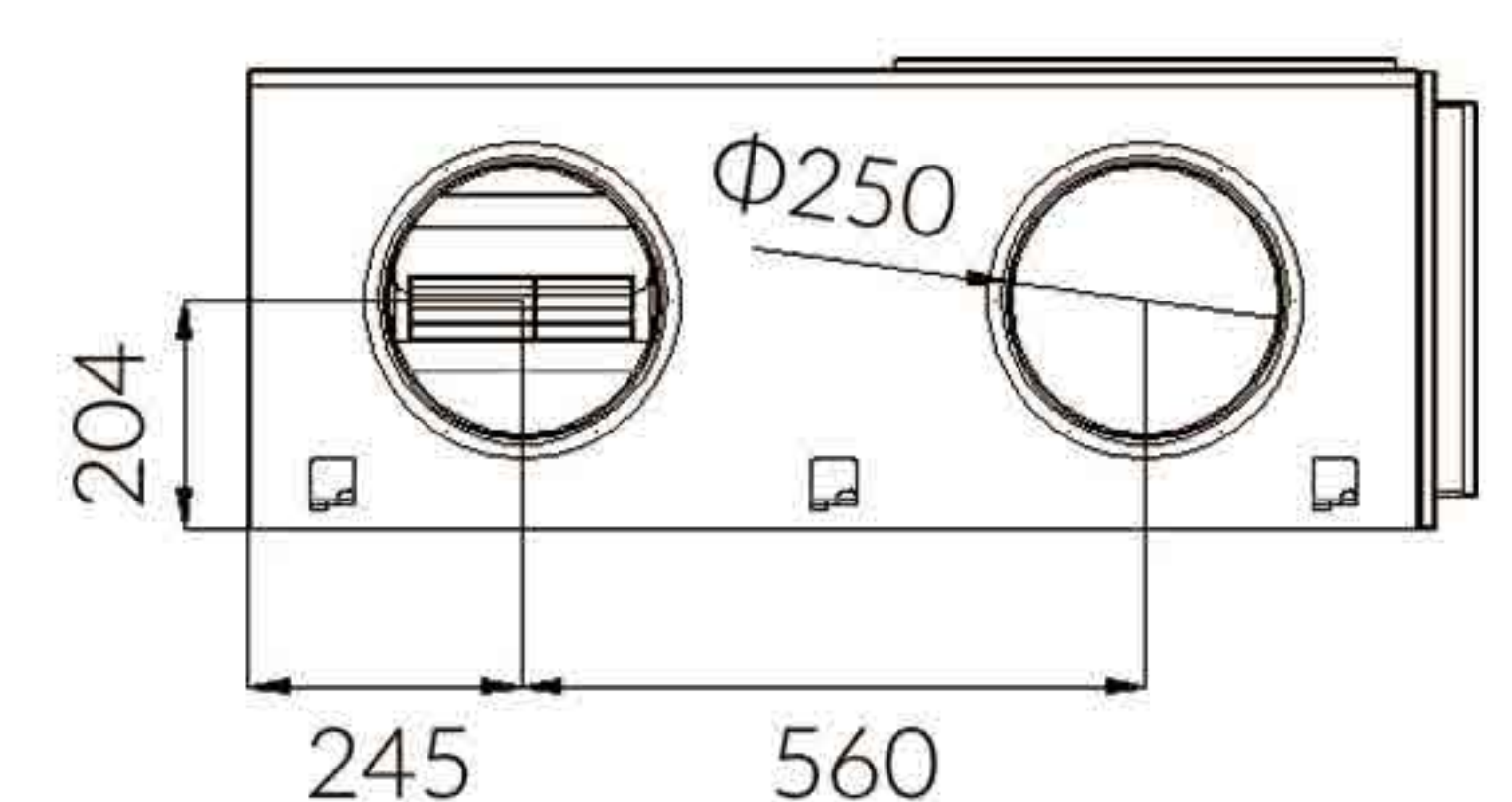
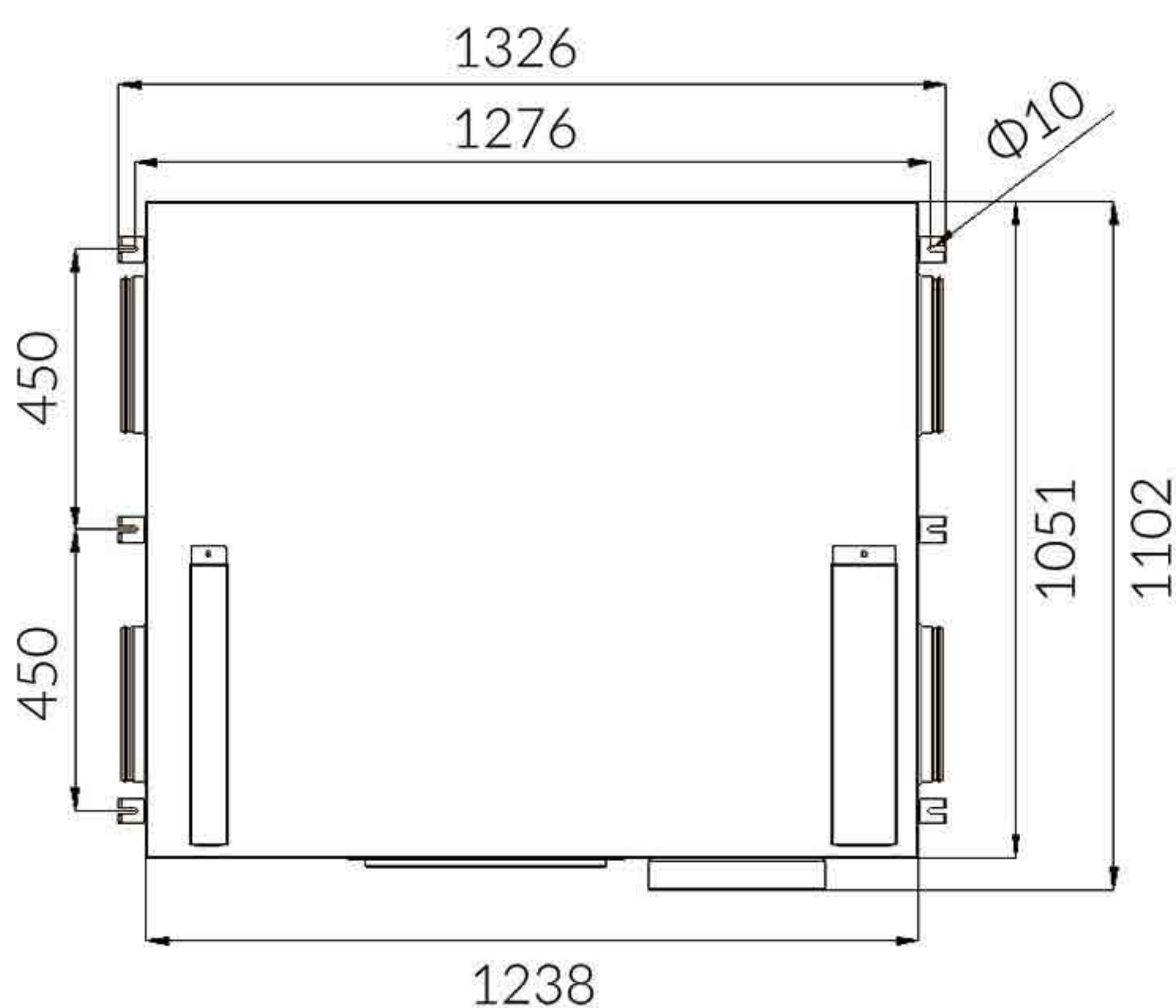


TECHNICAL SPECIFICATION

Model	CS600-ERV-B-Z-EC	CS700-ERV-B-Z-EC	CS800-ERV-B-Z-EC
Fan Motor Type	EC	EC	EC
Max. Airflow [m ³ /h]	600 @ 100Pa	700 @ 100Pa	800 @ 100Pa
Rated Max. Power	230V~50Hz, 340W, 2.4A	230V~50Hz, 425W, 3A	230V~50Hz, 445W, 3.1A
Power Input Range	200-240V~, 50/60Hz	200-240V~, 50/60Hz	200-240V~, 50/60Hz
Net Weight [kg]	92.5	92.5	92.5
Extract Filter	G4	G4	G4
Supply Filter	G4	G4	G4
Supply Filter	F8 (Optional)	F8 (Optional)	F8 (Optional)
Max. Static Pressure [Pa]	303	370	418
Heat Exchanger Type	Counter-flow	Counter-flow	Counter-flow
Heat Recovery Efficiency [%]	81-92	80-92	78-92
Internal Insulation Material	Polyethylene Foam	Polyethylene Foam	Polyethylene Foam
Case Material	Coated Sheet Steel	Coated Sheet Steel	Coated Sheet Steel
Transferred Air Temperature [°C]	(-25 to +50)	(-25 to +50)	(-25 to +50)
Operating Ambient Temperature [°C]	(+5 to +40)	(+5 to +40)	(+5 to +40)
Operating Ambient Relative Humidity [%]	<80	<80	<80
Connected Air Duct Diameter [mm]	250	250	250

* A 10% reduction of supply airflow may occur when Supply Filter F8 applied

OVERALL DIMENSION (mm)

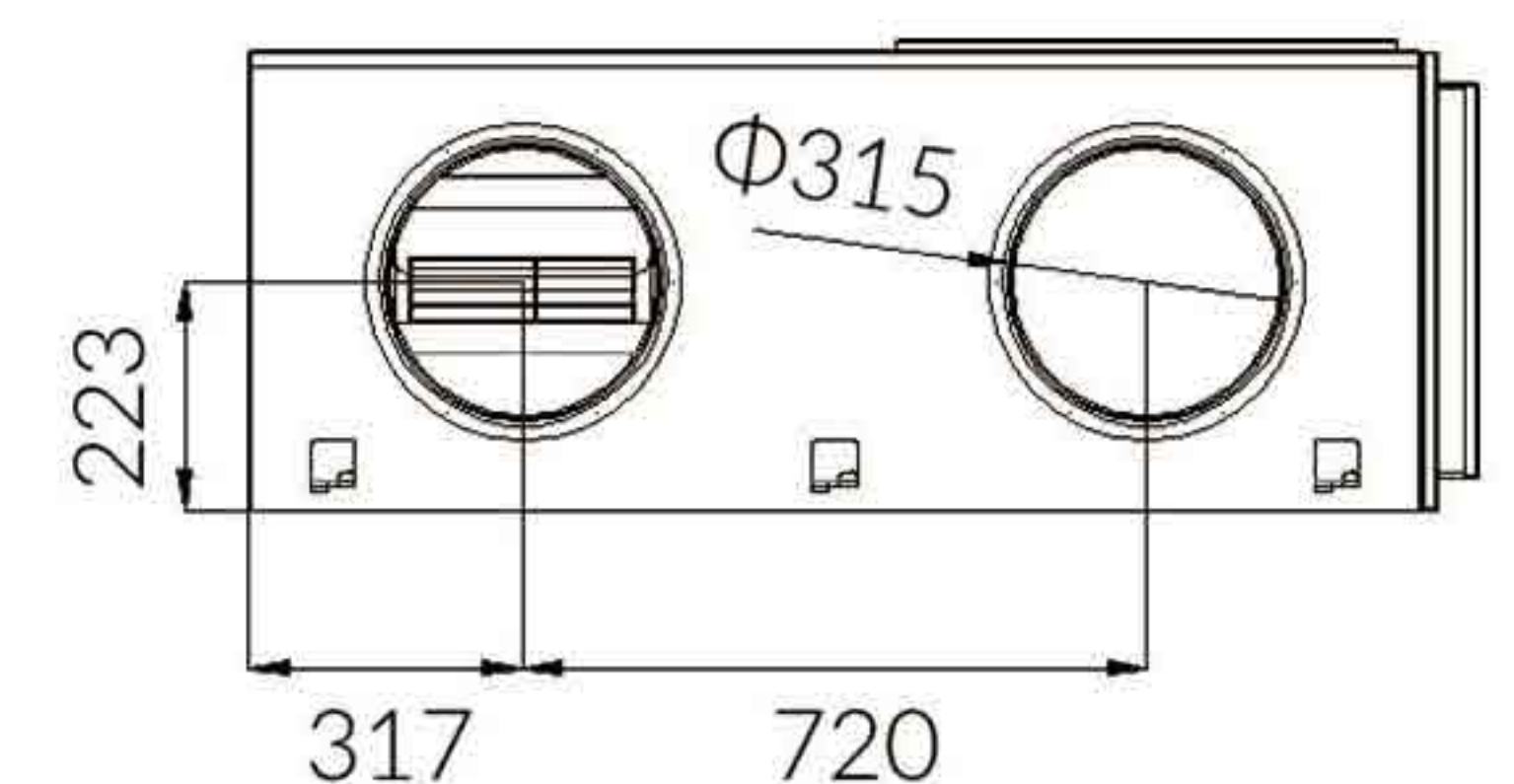
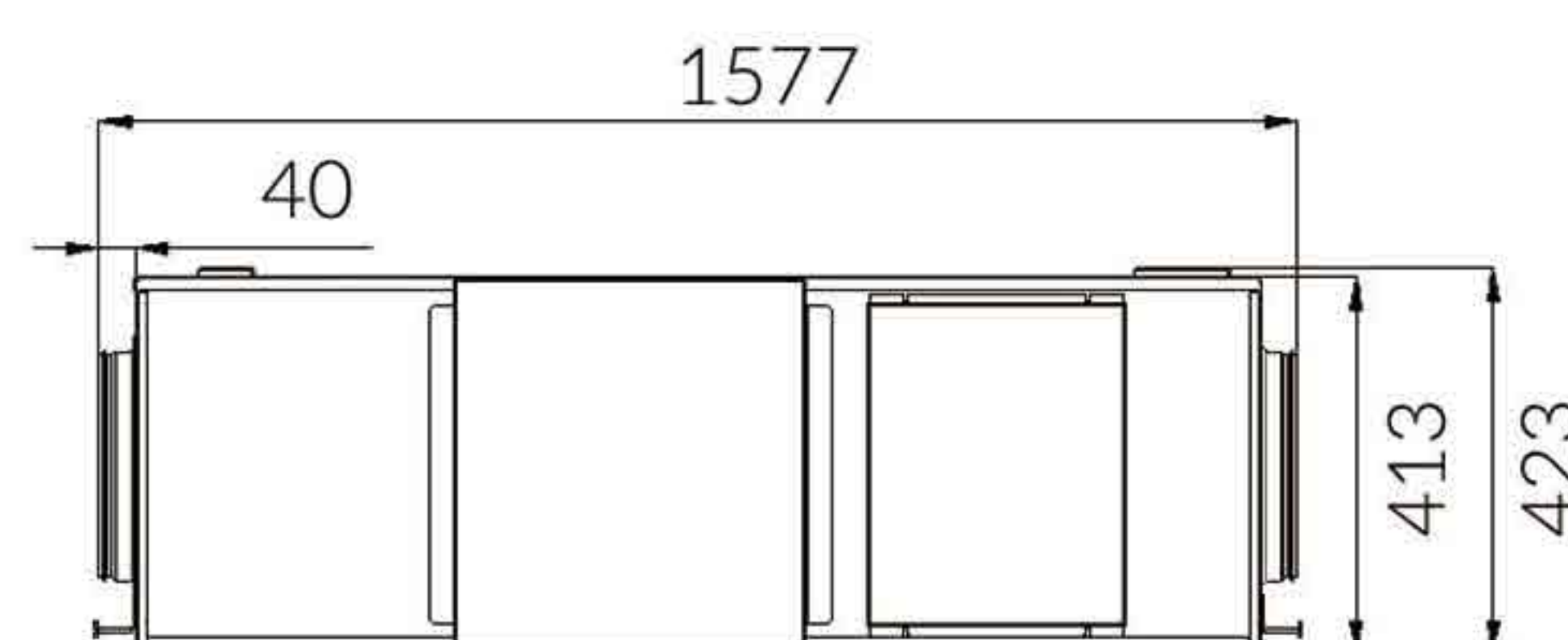
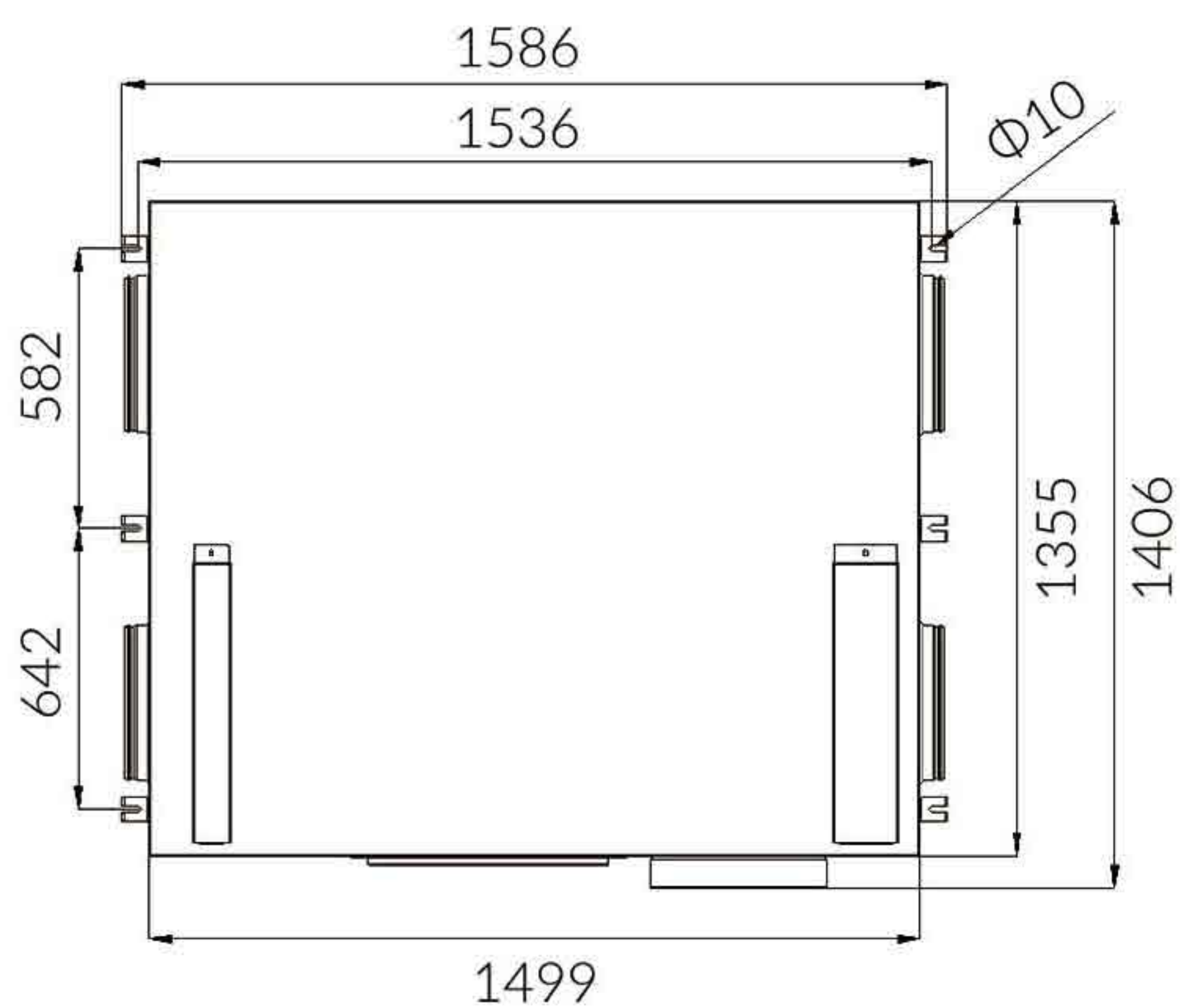


TECHNICAL SPECIFICATION

Model	CS900-ERV-B-Z-EC	CS1000-ERV-B-Z-EC	CS1200-ERV-B-Z-EC
Fan Motor Type	EC	EC	EC
Max. Airflow [m ³ /h]	900 @ 100Pa	1000 @ 100Pa	1200 @ 100Pa
Rated Max. Power	230V~50Hz, 395W, 2.5A	230V~50Hz, 455W, 2.9A	230V~50Hz, 535W, 3.3A
Power Input Range	200-240V~, 50/60Hz	200-240V~, 50/60Hz	200-240V~, 50/60Hz
Net Weight [kg]	149.2	149.2	149.2
Extract Filter	G4	G4	G4
Supply Filter	G4	G4	G4
Supply Filter	F8 (Optional)	F8 (Optional)	F8 (Optional)
Max. Static Pressure [Pa]	358	388	492
Heat Exchanger Type	Counter-flow	Counter-flow	Counter-flow
Heat Recovery Efficiency [%]	80-92	79-92	75-92
Internal Insulation Material	Polyethylene Foam	Polyethylene Foam	Polyethylene Foam
Case Material	Coated Sheet Steel	Coated Sheet Steel	Coated Sheet Steel
Transferred Air Temperature [°C]	(-25 to +50)	(-25 to +50)	(-25 to +50)
Operating Ambient Temperature [°C]	(+5 to +40)	(+5 to +40)	(+5 to +40)
Operating Ambient Relative Humidity [%]	<80	<80	<80
Connected Air Duct Diameter [mm]	315	315	315

* A 10% reduction of supply airflow may occur when Supply Filter F8 applied

OVERALL DIMENSION (mm)



VK8 CONTROL SYSTEM

- ✓ Comprehensive Control System
- ✓ HD 7" Color Touchscreen with Real-time IAQ Display
- ✓ Variable Speed Local Demand Control
- ✓ Modbus RS485 Smart Home Connection
- ✓ IAQ Sensors CO₂ / PM2.5 / VOCs / TEMP / RH
- ✓ Weekly Scheduled Operation
- ✓ Optional Fans Separately Control
- ✓ Multiple External CO₂ / RH / TEMP Sensors Connection
- ✓ Multiple External Boost Switches Connection
- ✓ Bypass / Defrost / IAQ Automation
- ✓ APP Remote Control Available
- ✓ Filter Countdown / Replacement Notification
- ✓ Complete Settings on Control Panel



Bypass Auto



Defrost Auto



RH Control Auto



CO₂ Control Auto



Weekly Timer



Boost Function



Independent Fan Control



5 Speeds



Filter Notification



Remote Control



VK2 CONTROL SYSTEM

- ✓ 3.5" Display & Touchscreen
- ✓ iOS & Android APP
- ✓ Independent Fan Adjustment
- ✓ Filter Management with Filter Timer & Notification
- ✓ Week Scheduled Operation
- ✓ Boost Ventilation Function



5 Speeds



Weekly Timer



Remote Control

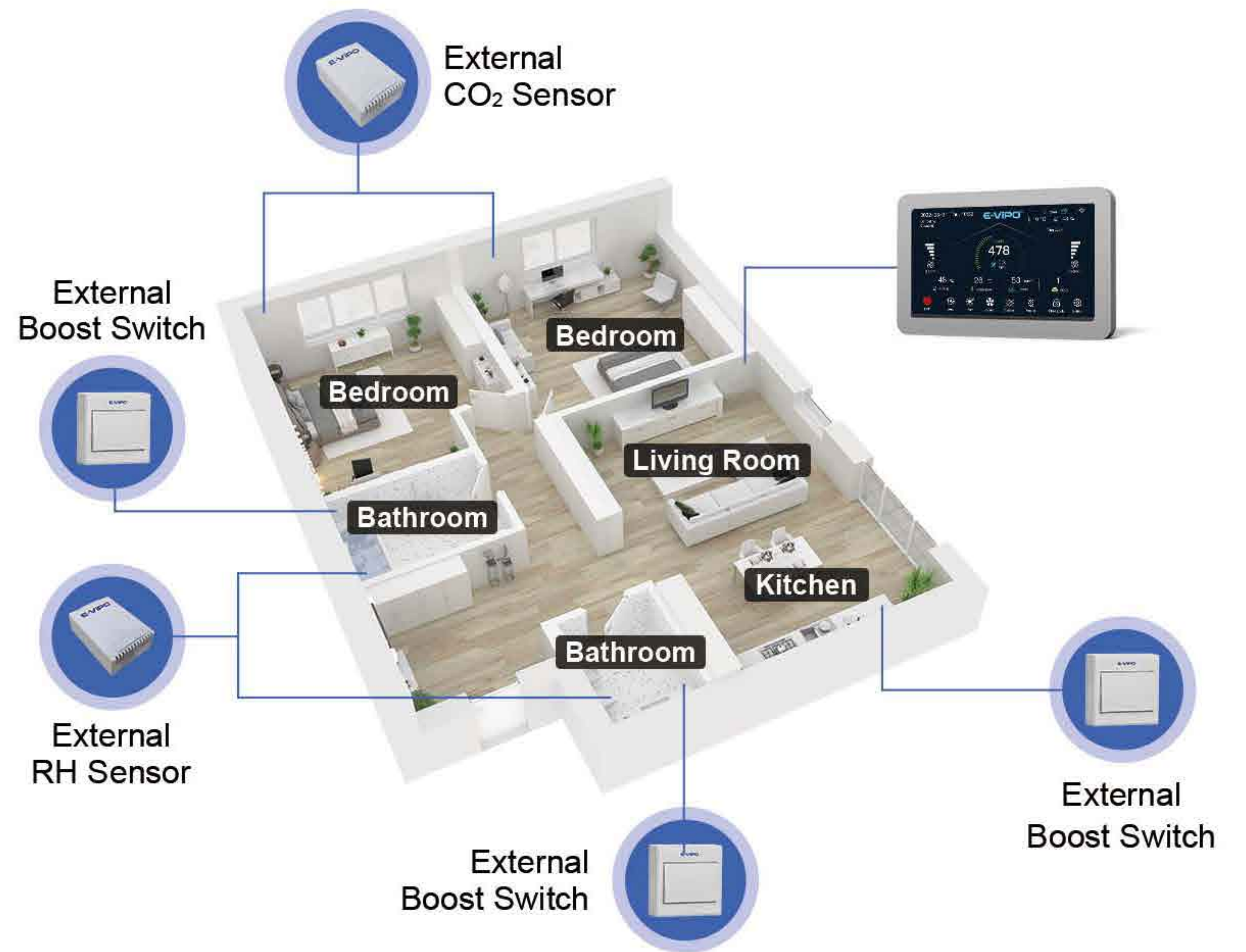


Filter Notification

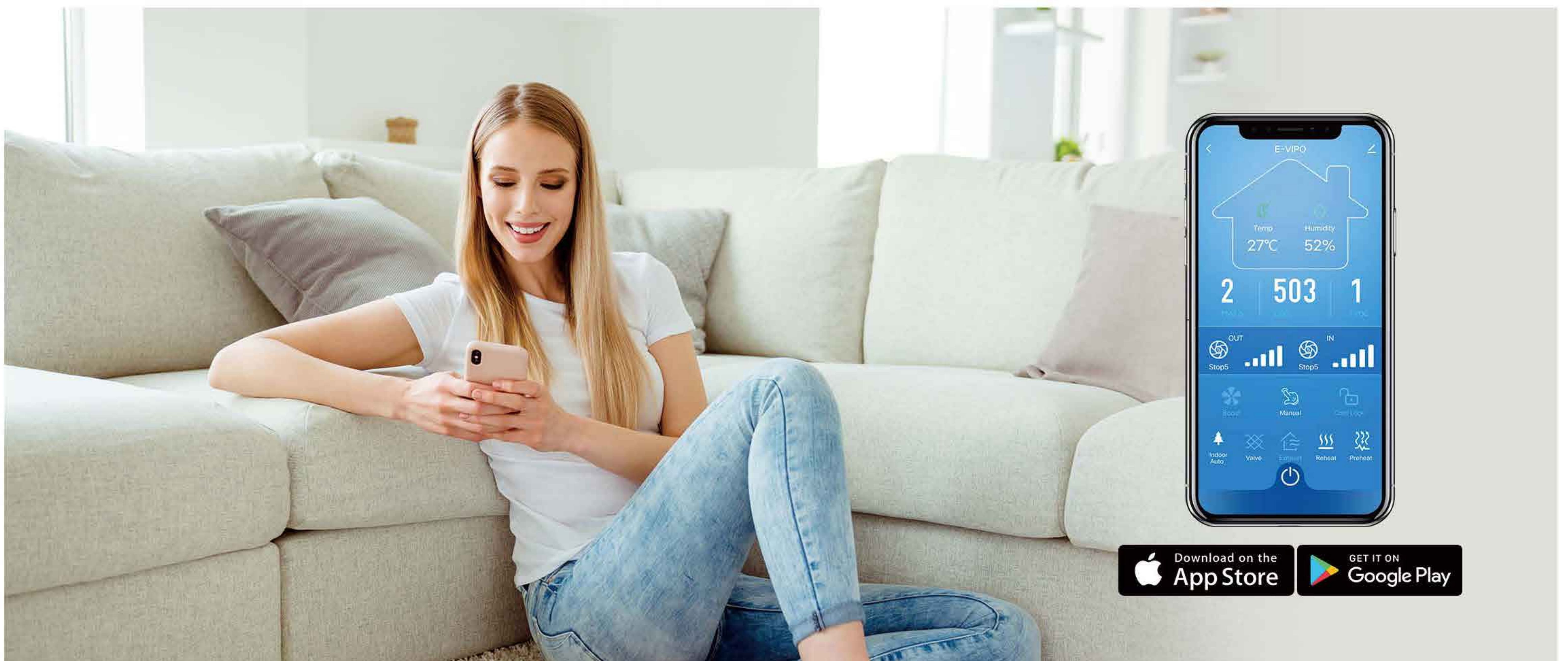
TECHNICAL SPECIFICATION

Model	VK8	VK2
Touchscreen	7" HD (Color)	3.5"
Mode	AUTO / Manual / Sleep	Manual
Fan Speeds	5-Speeds	5-Speeds
Bypass Control	AUTO / Manual	Manual
Boost Function	✓	✓
Built-in CO ₂ Sensor	✓	—
Built-in TEMP Sensor	✓	✓
Built-in RH Sensor	✓	—
Built-in PM2.5 Sensor	✓	—
Built-in VOCs Sensor	✓	—
Defrosting	✓	✓
WiFi & APP	✓	✓
Timer Control	✓	✓
IAQ Indication	✓	—
Filter Notification	✓	✓
RS485 (Smart Home)	✓	—
Bluetooth	✓	✓
External CO ₂ Sensor	× 8 Pcs Max.	—
External RH Sensor	× 8 Pcs Max.	—
External Boost Switch	× 10 Pcs Max.	✓
External Air Damper	✓	✓
External Heater	✓	✓

VK8 Control System



VK2 Control System





E-VIPO[®]