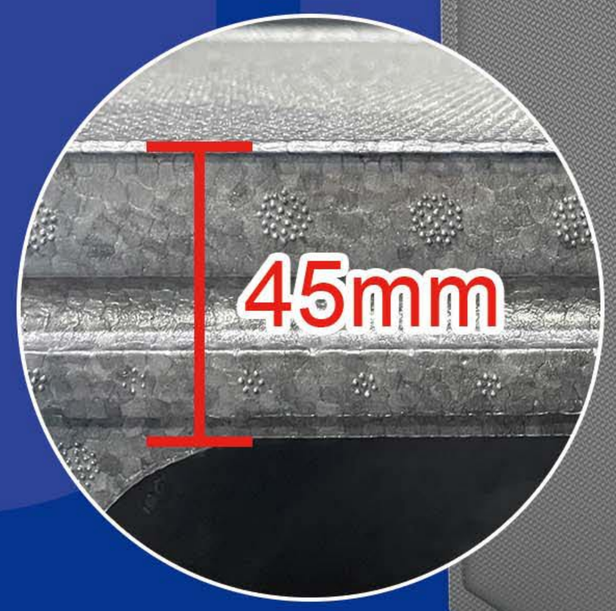
E-VIPO®

HEAT RECOVERY VENTILATION SYSTEM

Advanced Mvhr For Comfort Living

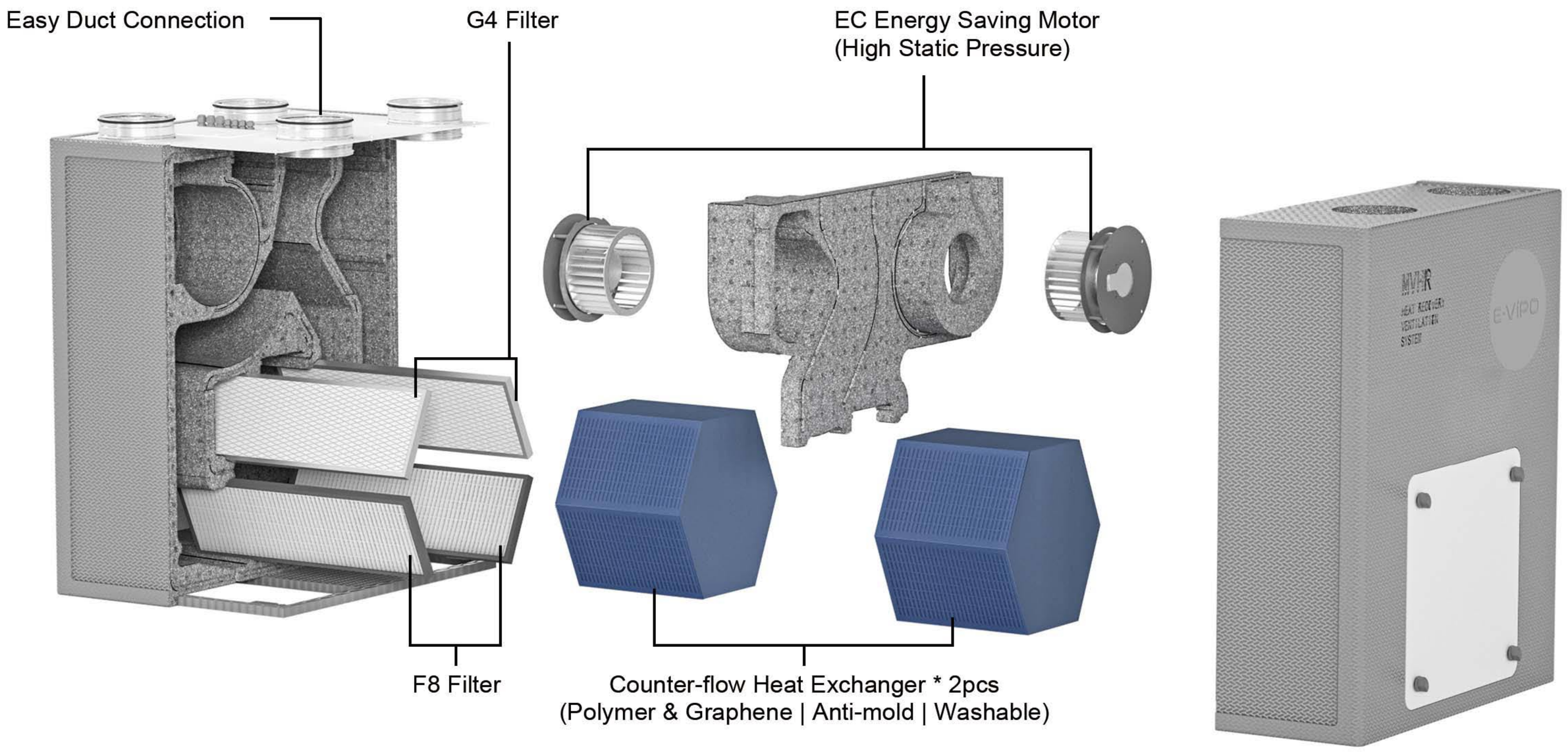
EPP HOUSING

The most efficient in heat & sound insulation



FEATURE

- Heat Recovery Efficiency up to 97%
- High Static Pressure Energy Saving EC Motor
- Counter-flow Heat Recovery Core
- Summer Bypass Integration
- Independent Fan Speed Control
- 30mm-45mm Internal Heat and Sound Insulation
- Ultra Silent Operation
- Automated Frost Protection
- Vertical / Horizontal Installation
- Service Panels on Both Sides
- Same Unit for Left or Right Orientation Installation
- Internal Temperature / Relative Humidity Sensors
- Optional Electrical Heaters Integration
- Compact Design / Comfort Design
- EU1253/2014 ErP2016 ErP2018 EcoDesign Compliant



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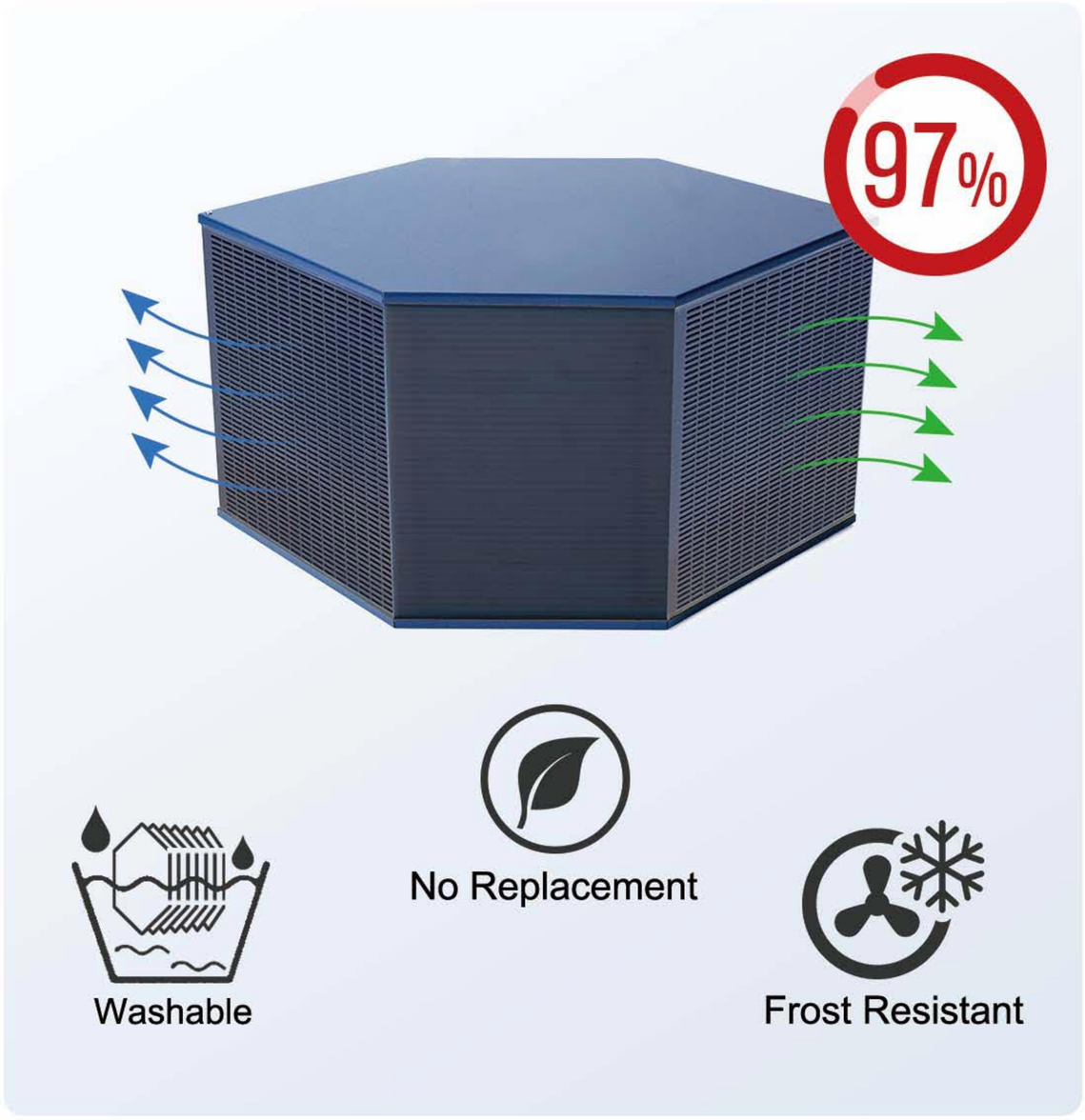
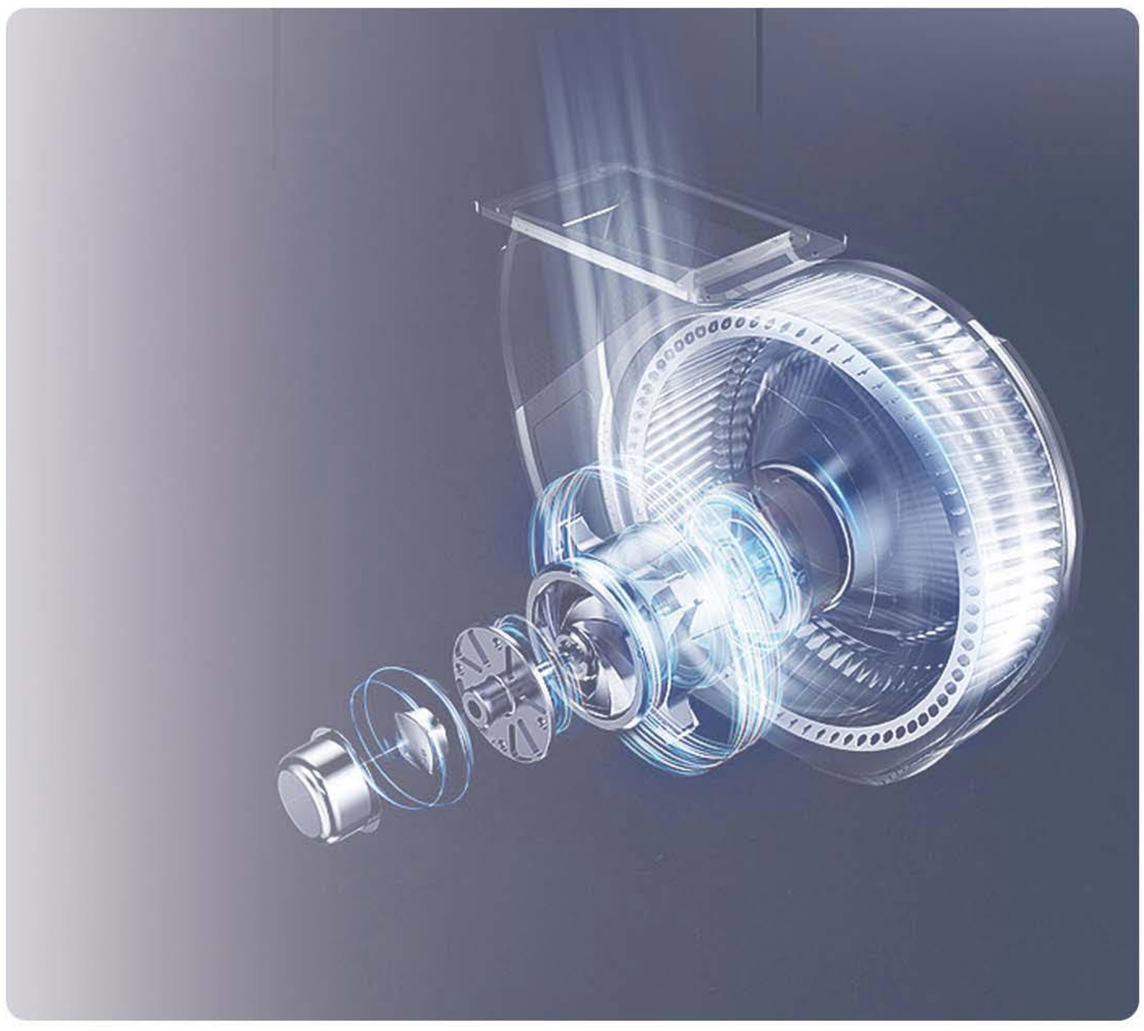


HIGH Efficiency

Heat Recovery

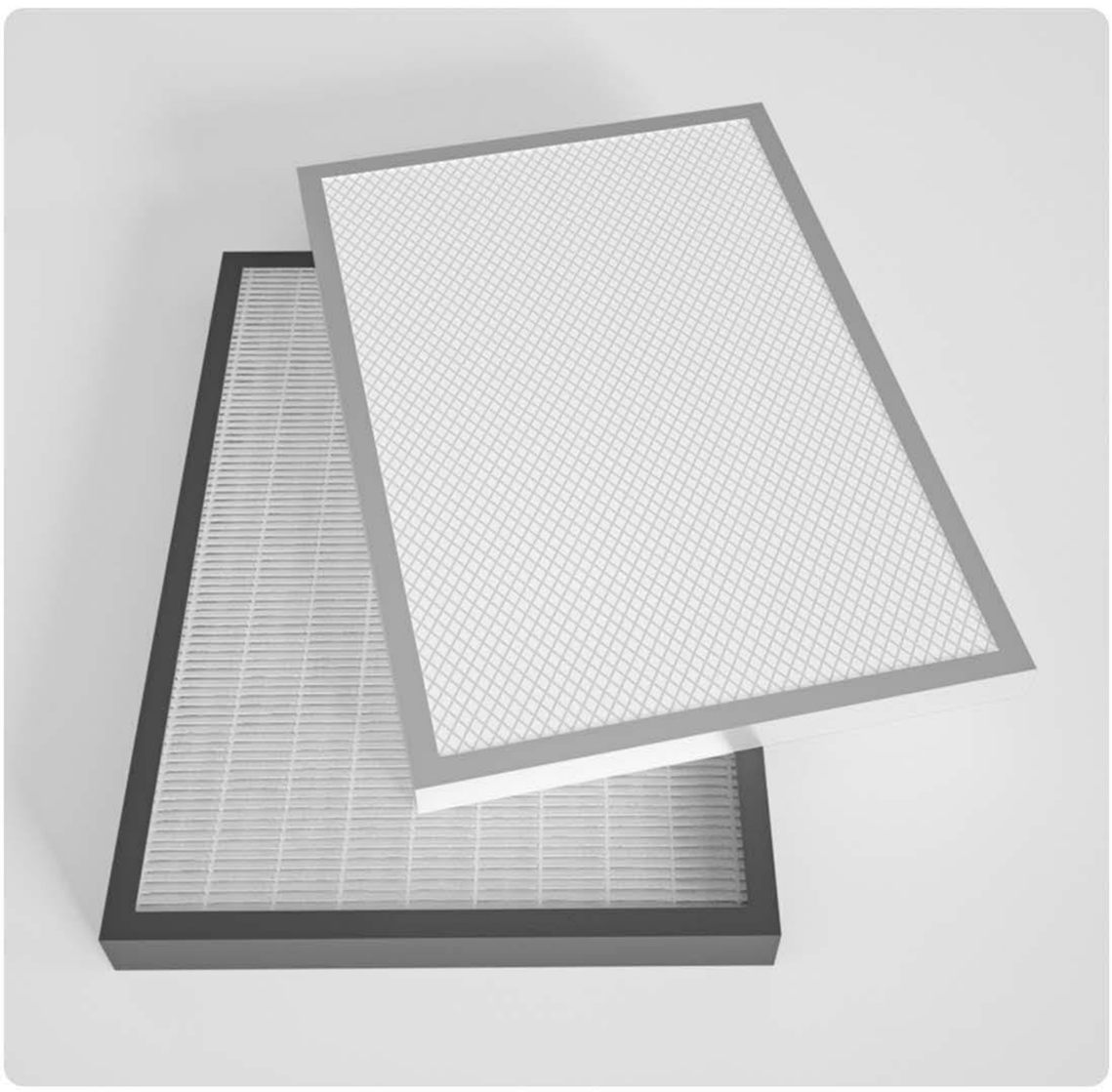
Counter-flow plate heat exchanger (no moving parts), with an optimal distance between layers to ensure a high heat recovery efficiency and a smooth movement of the airflows. Material with Graphene used further enhances heat recovery efficiency.
The core is washable and durable, anti-mold, anti-viral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



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.



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%).

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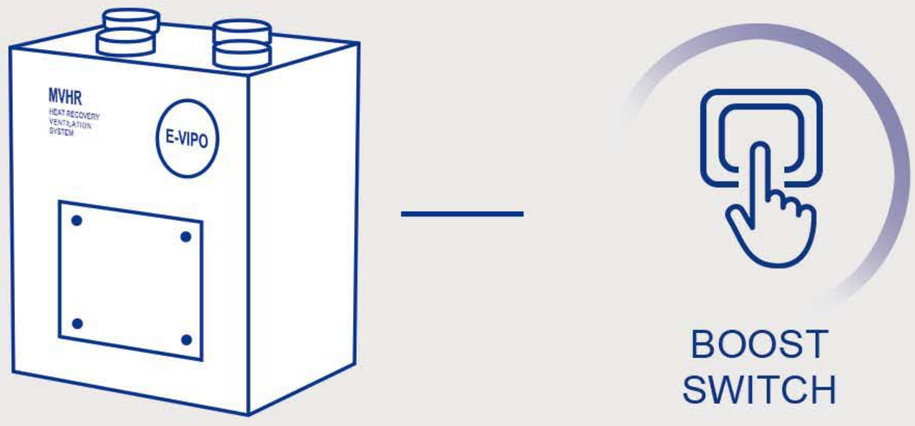
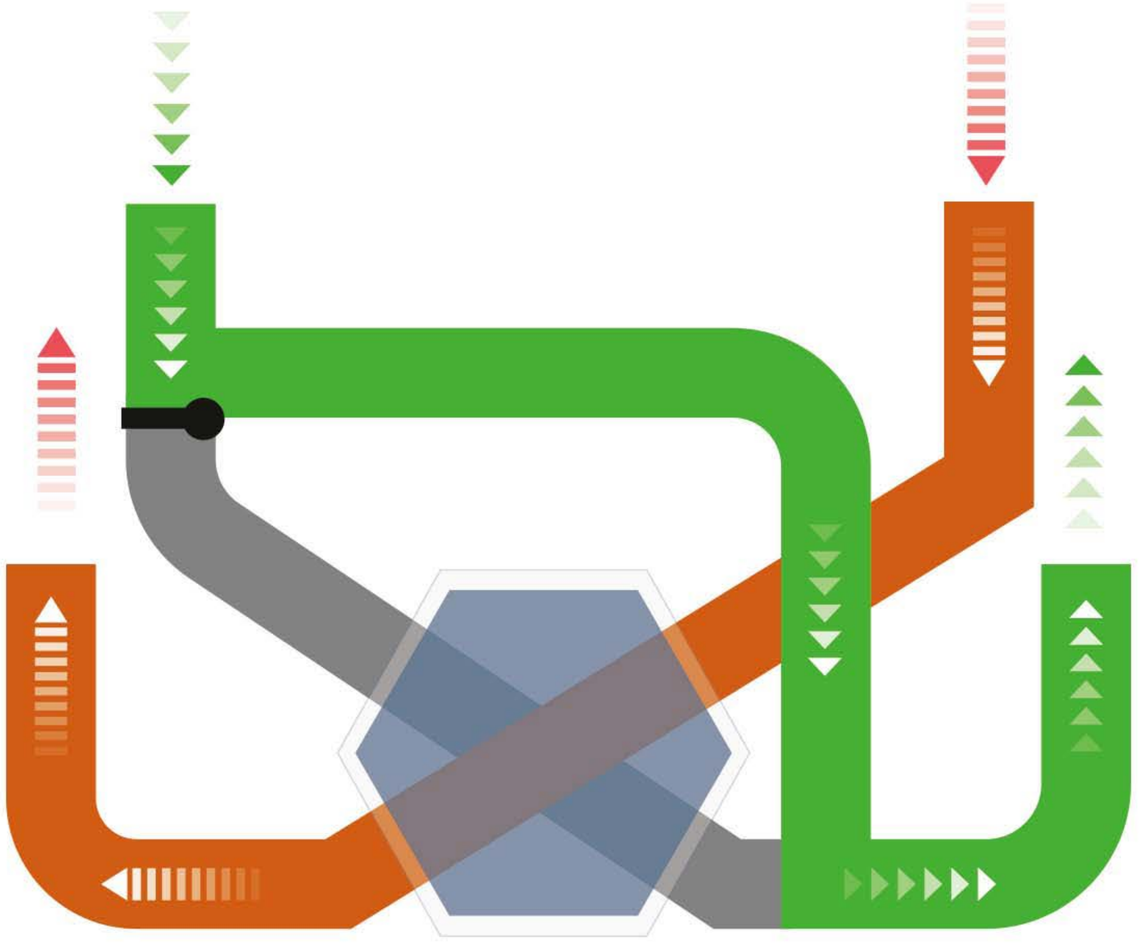


Boost Function

Rapid Circulation

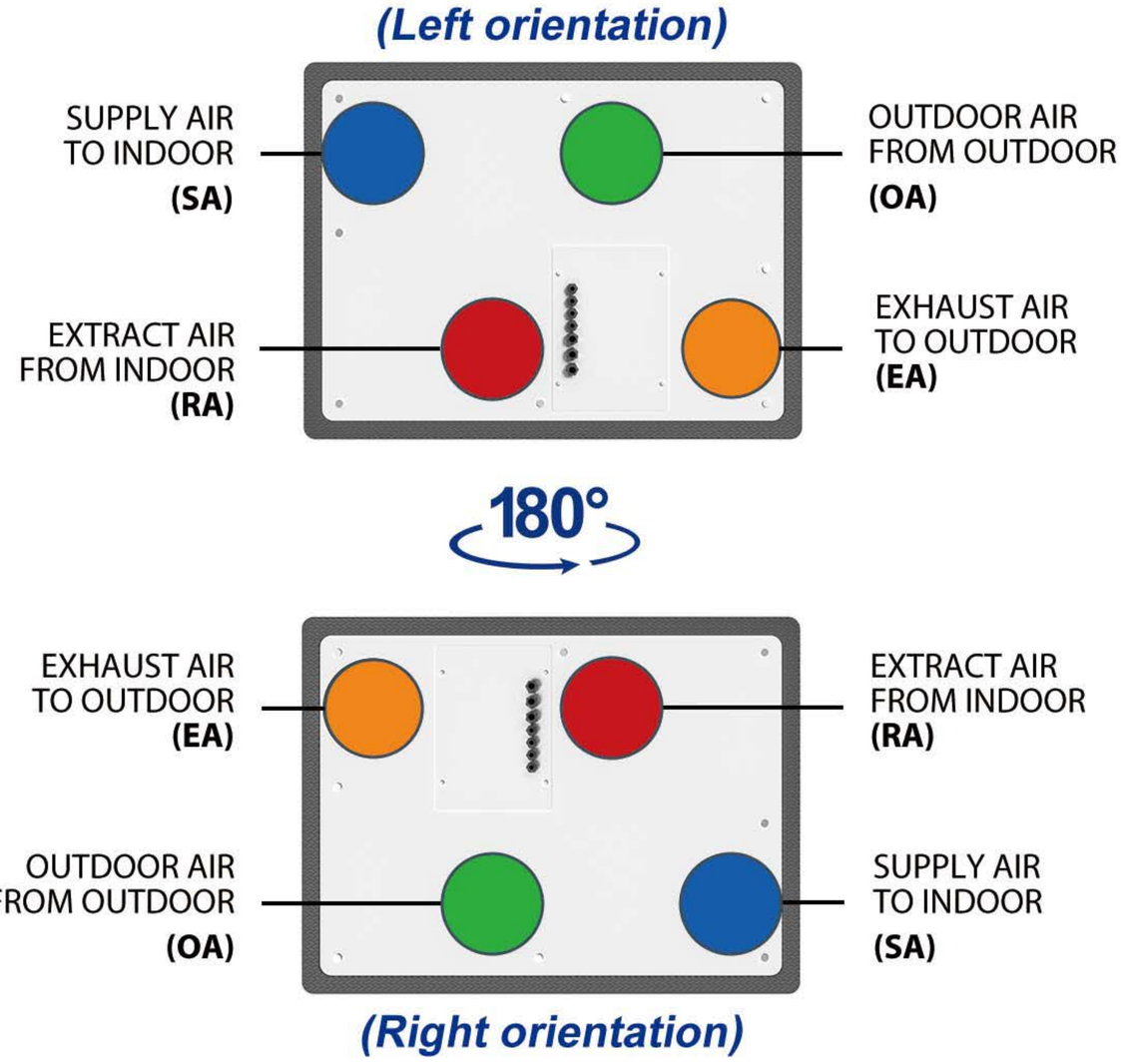
Boost ventilation is a function that can be triggered when indoor needs a fast circulation of air with outdoor fresh air.
When the IAQ is bad, or indoor humidity is high, boost function can be triggered to ensures pollutants are extracted immediately at the highest fan speed.
Up to 10 external boost switches can be connected to the control system.



Bypass Damper

Integration

Bulit-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.



(Left orientation)

(Right orientation)

ON-SITE Inversion

Flexible Installation

Service panels are on the both sides, left or right installation can be adjusted at site to meet different installation requirements.
A quick and easy process allows the system to be inverted on-site, changing the external duct connections from the right to the left of the system as required for specific property types thus minimising ducting runs, system pressure and installation time.

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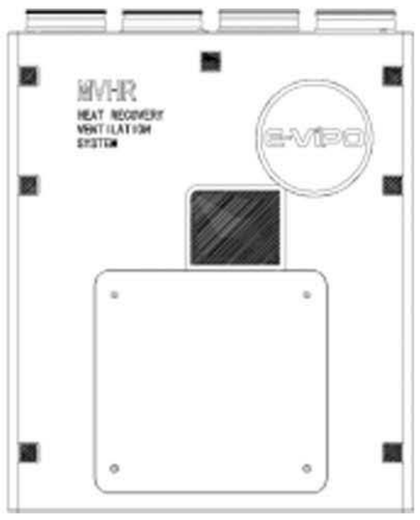
TECHNICAL SPECIFICATION

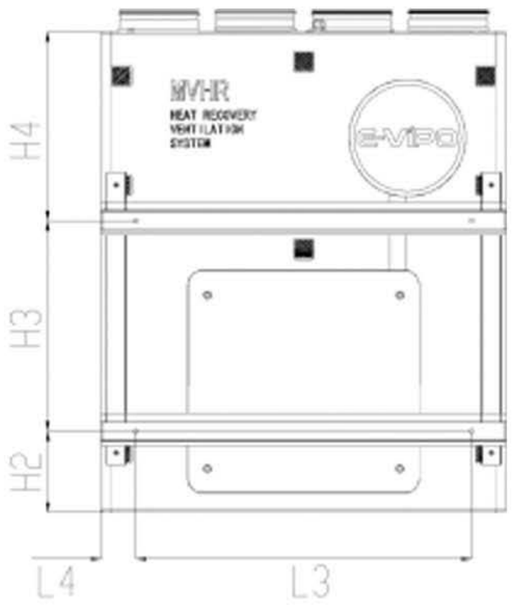
Model	TP350-ERV-B-Z-EC	TP400-ERV-B-Z-EC	TP450-ERV-B-Z-EC	TP500-ERV-B-Z-EC	TP550-ERV-B-Z-EC	TP600-ERV-B-Z-EC
Fan Motor Type	EC	EC	EC	EC	EC	EC
Max. Airflow	350m³/h @ 100Pa	400m³/h @ 100Pa	450m³/h @ 100Pa	500m³/h @ 100Pa	550m³/h @ 100Pa	600m³/h @ 100Pa
Rated Max. Power	230V~50Hz 115W, 0.9A	230V~50Hz 150W, 1.1A	230V~50Hz 190W, 1.3A	230V~50Hz 250W, 1.7A	230V~50Hz 320W, 2.1A	230V~50Hz 390W, 2.6A
Power Input Range	200-240V~ 50/60Hz	200-240V~ 50/60Hz	200-240V~ 50/60Hz	200-240V~ 50/60Hz	200-240V~ 50/60Hz	200-240V~ 50/60Hz
Weight	47.5kg	47.5kg	47.5kg	47.5kg	47.5kg	47.5kg
Extract Filter	G4	G4	G4	G4	G4	G4
Supply Filter	G4	G4	G4	G4	G4	G4
Supply Filter	F8 (Optional)	F8 (Optional)	F8 (Optional)	F8 (Optional)	F8 (Optional)	F8 (Optional)
Max. Static Pressure	575Pa	707Pa	720Pa	720Pa	720Pa	725Pa
Heat Exchanger Type	Counter-flow	Counter-flow	Counter-flow	Counter-flow	Counter-flow	Counter-flow
Heat Recovery Efficiency	89% - 97%	87% - 97%	84% - 97%	81% - 97%	78% - 97%	75% - 97%
Internal Insulation Material	EPP	EPP	EPP	EPP	EPP	EPP
Case Material	EPP	EPP	EPP	EPP	EPP	EPP
Transferred Air Temperature	(-25°C to +50°C)	(-25°C to +50°C)	(-25°C to +50°C)	(-25°C to +50°C)	(-25°C to +50°C)	(-25°C to +50°C)
Operating Ambient Temperature	(+5°C to +40°C)	(+5°C to +40°C)	(+5°C to +40°C)	(+5°C to +40°C)	(+5°C to +40°C)	(+5°C to +40°C)
Operating Ambient Relative Humidity	<80%	<80%	<80%	<80%	<80%	<80%
Connected Air Duct Diameter	160mm	160mm	160mm	160mm	160mm	160mm

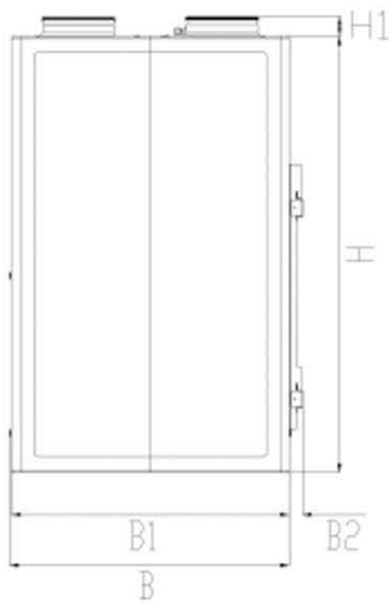
* A 10% reduction of supply airflow may occur when Supply Filter F8 applied

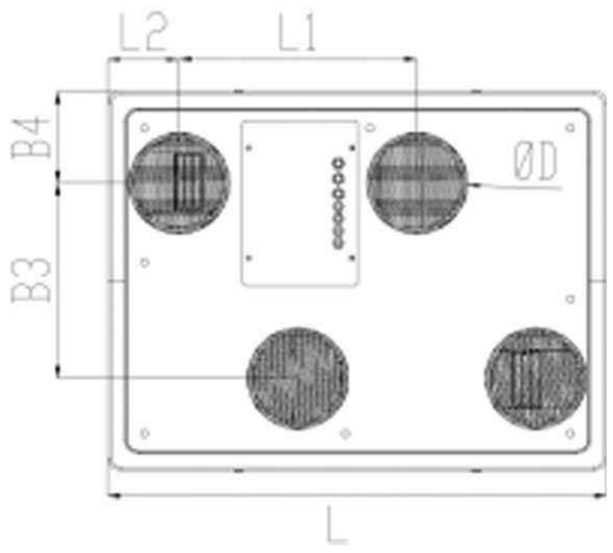
OVERALL DIMENSION (mm)

L	L1	L2	L3	L4	B	B1	B2	B3	B4	H	H1	H2	H3	H4	ΦO
820	391	116	680	70	623	620	29	320	150	970	40	163	425	382	160









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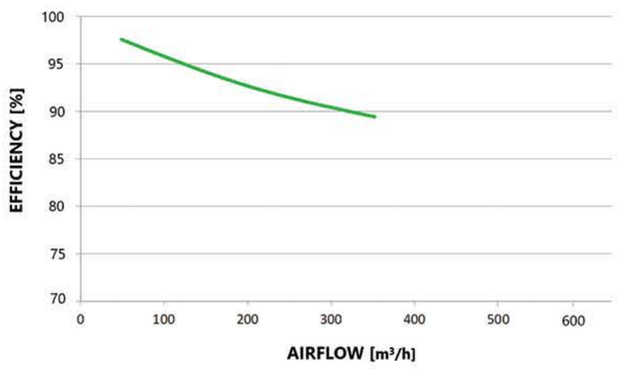
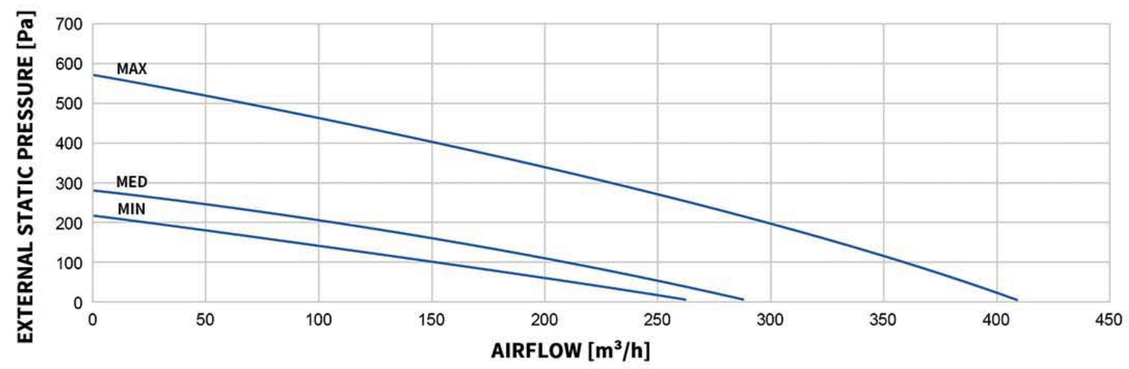
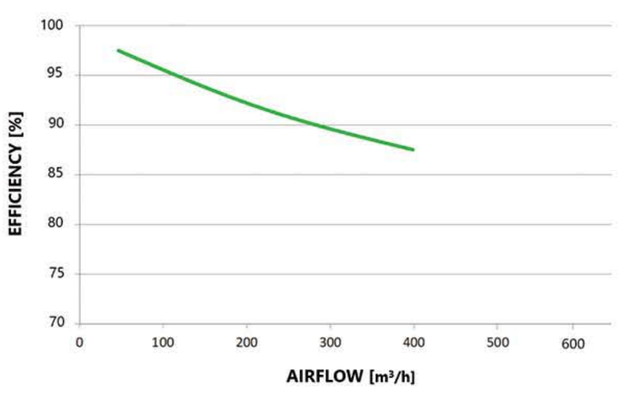
HEAT RECOVERY EFFICIENCY ATRE ERV ECO

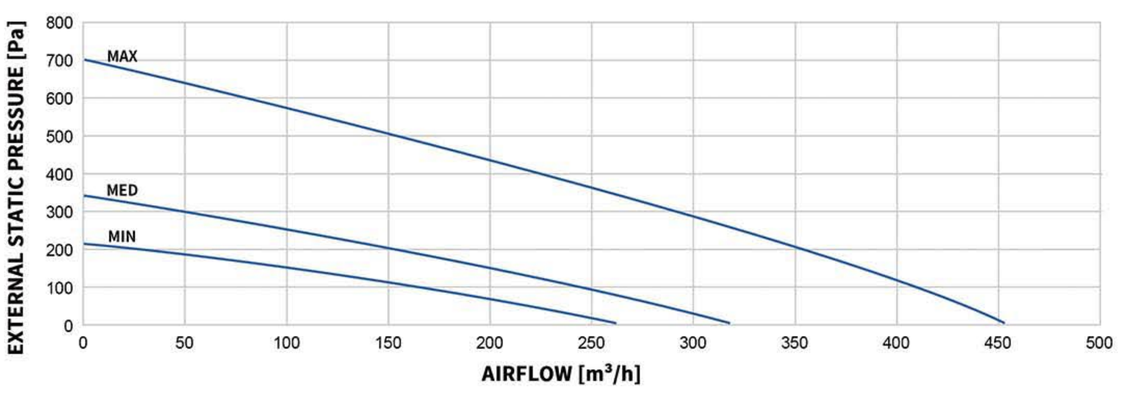
MODEL: TP350-ERV-B-Z-EC



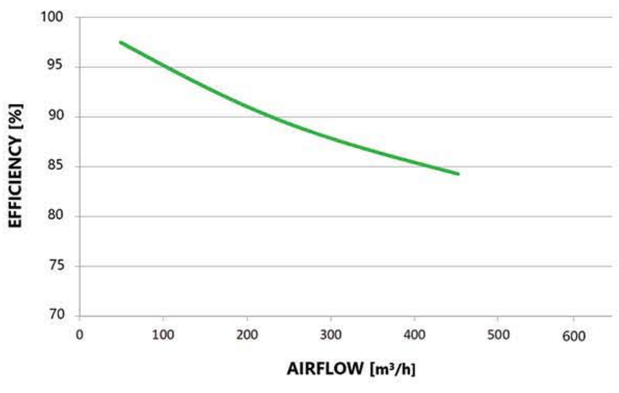


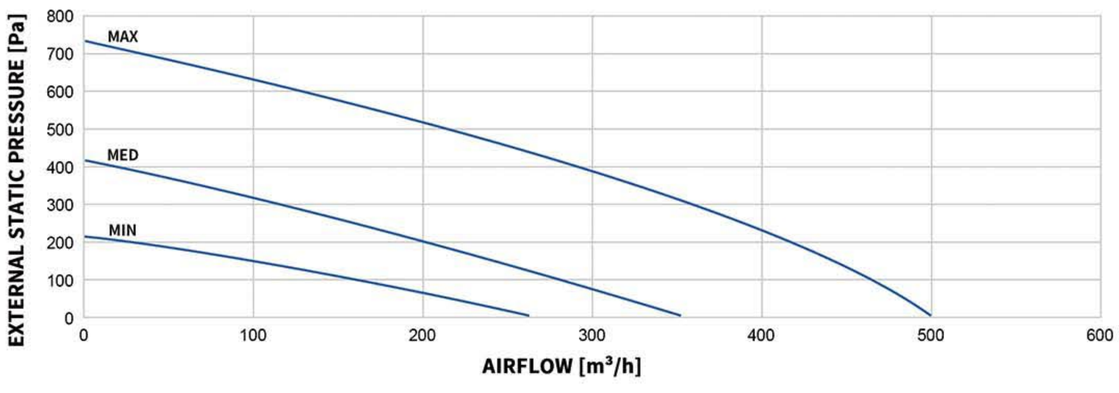
MODEL: TP400-ERV-B-Z-EC



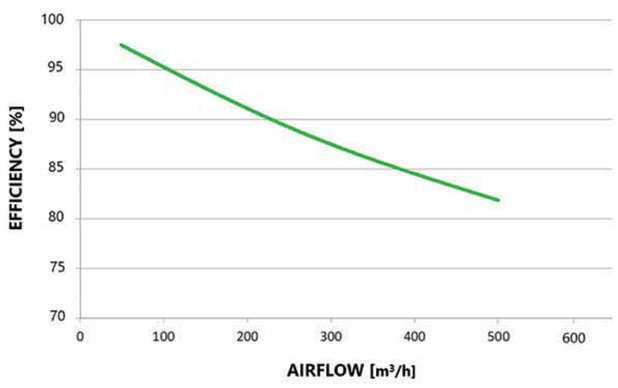


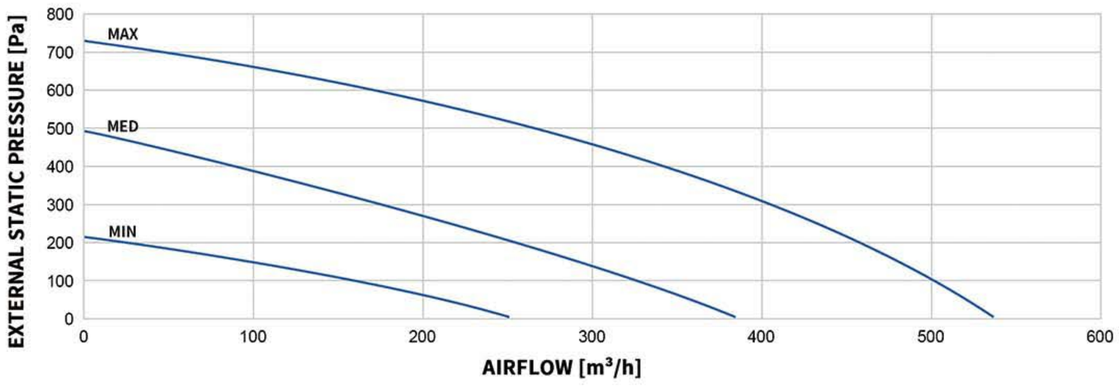
MODEL: TP450-ERV-B-Z-EC



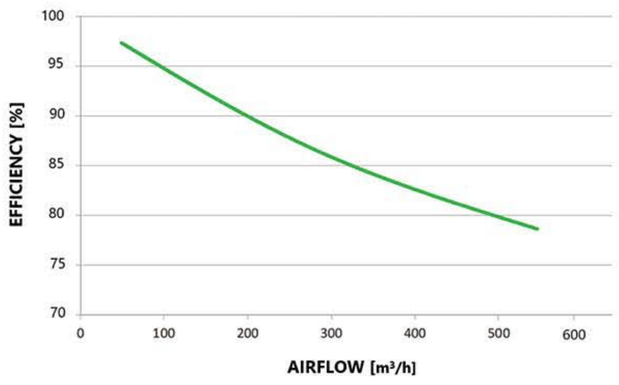


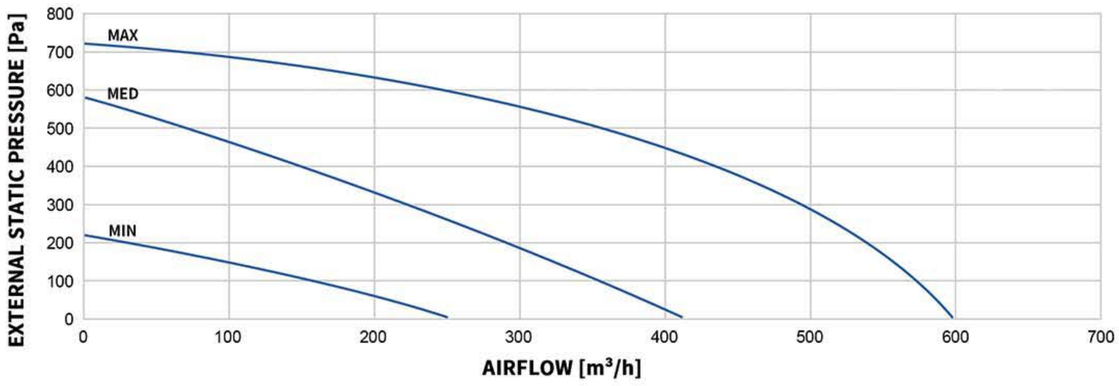
MODEL: TP500-ERV-B-Z-EC



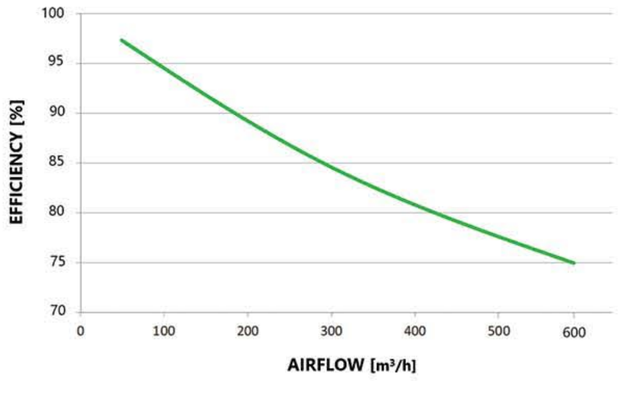


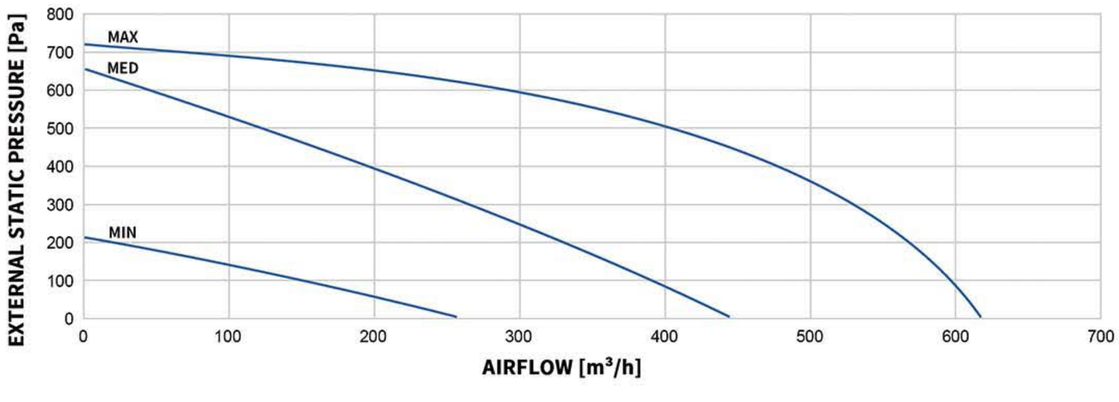
MODEL: TP550-ERV-B-Z-EC





MODEL: TP600-ERV-B-Z-EC





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VK8 CONTROL SYSTEM

- Comprehensive Control System
- HD 7” Color Touchscreen with Real-time Indoor Air Quality Display
- Variable Speed Local Demand Control
- Modbus RS485 Smart Home Connection
- IAQ Sensors CO_2 / PM2.5 / VOCs / TEMP / RH
- Weekly Scheduled Operation
- Optional Fans Separately Control
- Multiple External CO_2 / 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

CO_2 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

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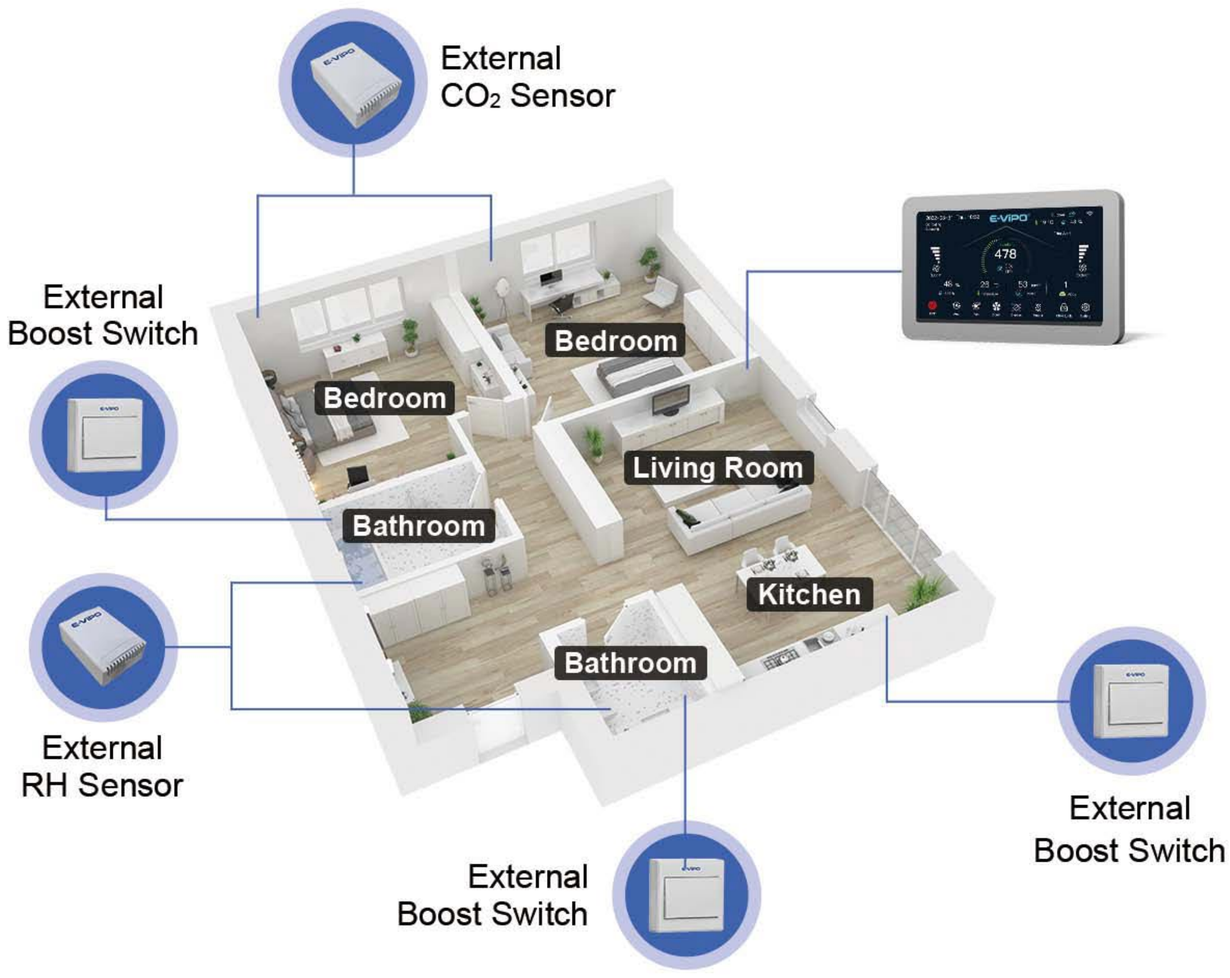
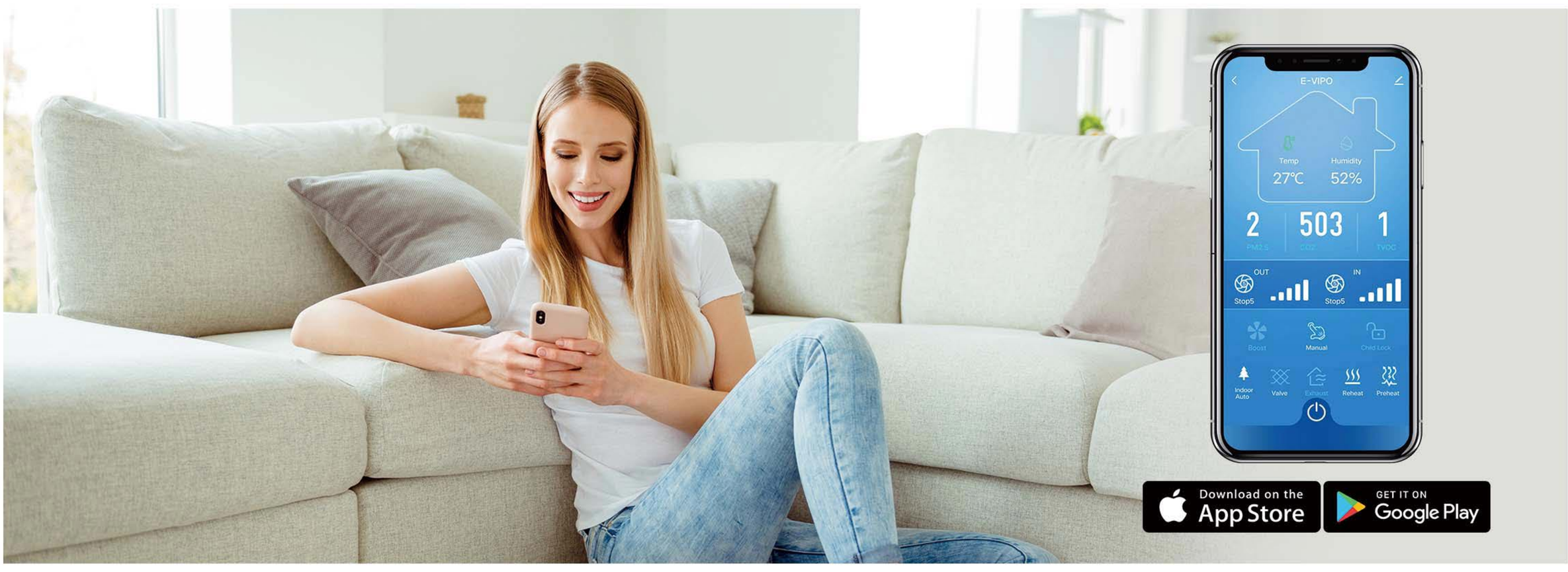
TECHNICAL SPECIFICATION

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



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