

HOLTOP

FRESH AIR FOR YOUR LIFE

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ECO-SMART **PRO**
Energy Recovery Ventilators



* Data is subject to changes without notification due to product improvement



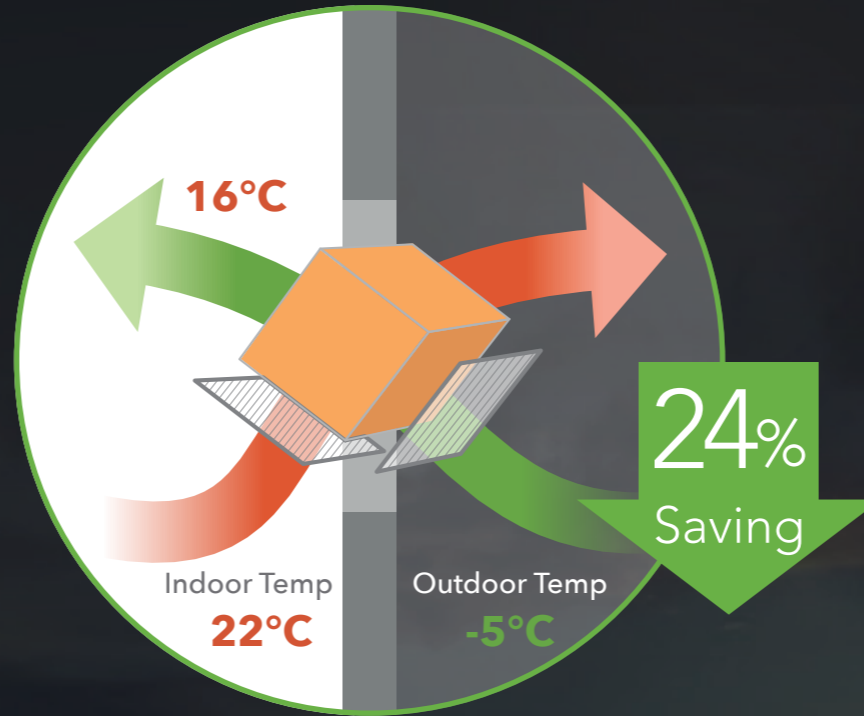
Night Time Free Cooling

Supplies cool air during nighttime to reduce cooling load



Timer Operation

ON/OFF timer can be set by users for automatic control to minimize the unnecessary operation



Comfort Air + Energy Saving

Compare to natural ventilation

High efficiency heat exchanger recover wasted energy while ventilating.



CO₂ Operation

Controls the fan speed automatically according to CO₂ level



Seasonal Auto Operation

Automatically changes operation mode based on the weather condition by sensing different temperature.

ERV saves energy Max.39% compare to natural ventilation

**FRESH AIR IS ESSENTIAL TO IMPROVE BUILDING AIR QUALITY.
WE IMPROVE THE QUALITY OF AIR,
SO YOU CAN ENJOY THE QUALITY OF LIFE.**

FRESH AIR MAKES YOU HEALTHY
FRESH AIR MAKES YOU EFFICIENT
FRESH AIR MAKES YOU COMFORTABLE
FRESH AIR MAKES YOU SLEEP BETTER

FRESH AIR FOR YOUR LIFE

Model Descriptions



- 1 ECO-SMART PRO energy recovery ventilator
- 2 Installation type, D for suspended type
- 3 Rated airflow (m³/h), for airflow more than 1000m³/h, H is for a hundred
- 4 Series Code
- 5 A is built in PM2.5 filter, B is without PM2.5 filter
- 6 1 is without bypass, 2 is with bypass.
- 7 D is for advanced intelligent control, C is for black cool intelligent control

ECO-SMART PRO
Energy Recovery Ventilators



ERVQ-D150-2A1 / ERVQ-D250-2A1 / ERVQ-D350-2A1
ERVQ-D150-2B1 / ERVQ-D250-2B1 / ERVQ-D350-2B1

DC motor	10 speeds	Physical filtering	Energy recovery	Slim design
EPS structure	Durable	Good insulation	Easy access	Silent operation
Energy saving	Smart control	Filter alarm	RS-485 Central control	IAQ monitor



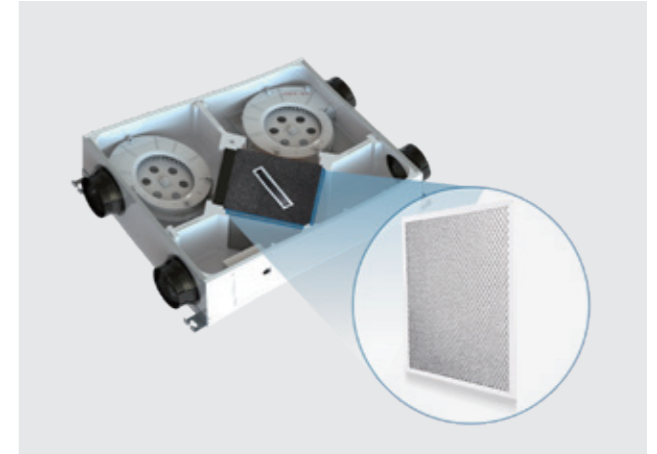
Durable Appearance Design

- Anticorrosive, beautiful, durable
- Excellent anti-corrosion performance
- Metallic texture



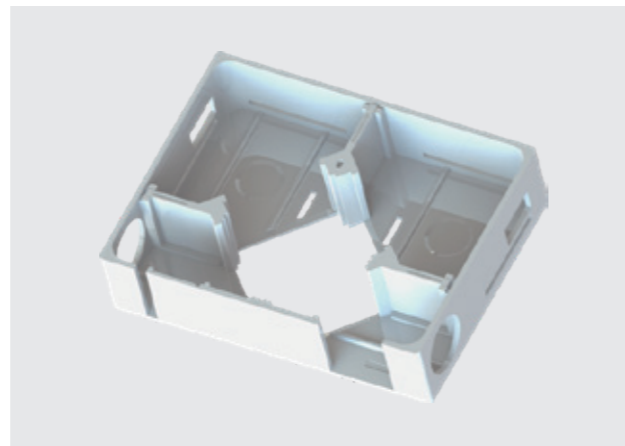
New Primary Filter

New primary filter is made of aluminium alloy frame and rubber filtration materials with nicer appearance and longer service life.



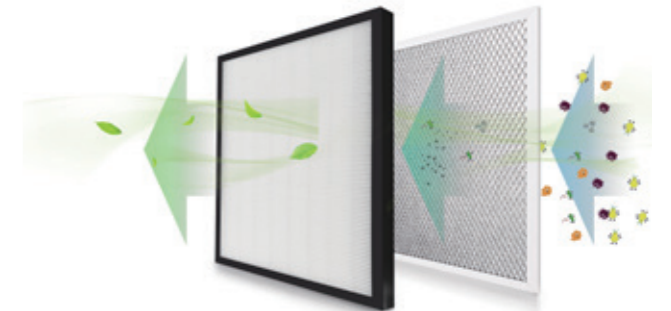
EPS Structure

- Integrated EPS for good insulation and air tightness.
- No condensation.
- Light weight, heat preserve, silent, environmental friendly, no odor
- EPS is a high polymer material widely used for building insulation, floor heating, refrigeration, industrial casting and other industries.



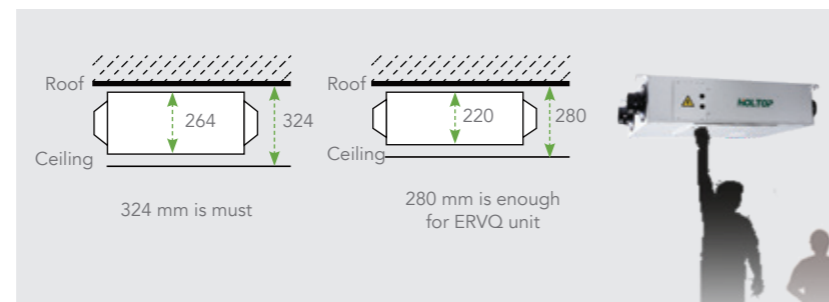
Sub-HEPA F9 Filter Integrated Optional

Optional sub HEPA F9 filter, particle diameter under $2.5\mu\text{m}$ can be filtered effectively, IAQ (indoor air quality) will be increased obviously.



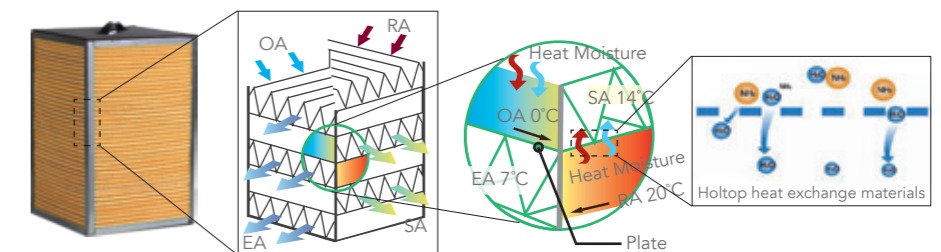
Supper Slim Body Design

Eco-vent pro ventilators are designed specially for the projects which have very strict ventilator height requirement, compared with the traditional congeneric products, eco-vent pro height is 20% less. Access door is at the bottom so maintenance is much easier.

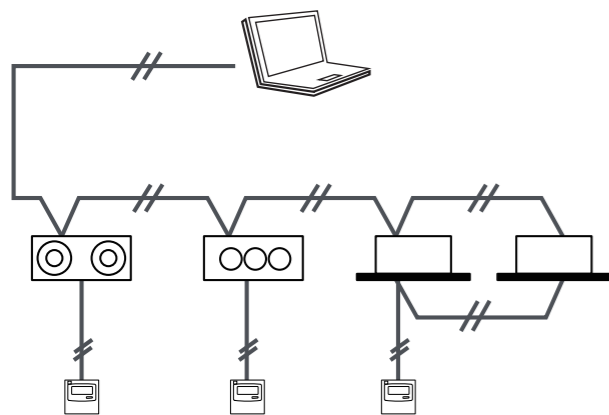


High Efficiency Temperature and Humidity Recovery

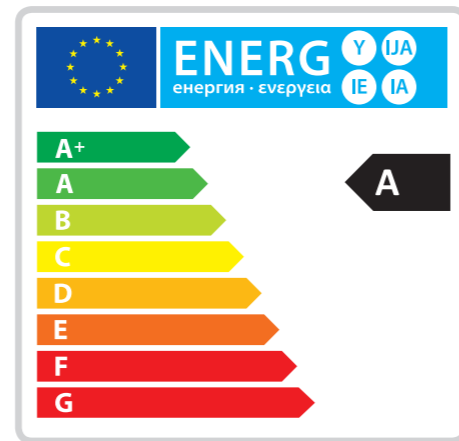
The full Eco-Smart Pro series ERV is built with Holtop crossflow enthalpy exchanger, with efficiency up to 82% in winter, the allowance of moisture exchange between fresh air and exhaust air make a comfortable indoor temperature and humidity.



Linkage with External A/C System or BMS Control



Energy Efficiency Class of A (According to EU NO. 1254/2014)



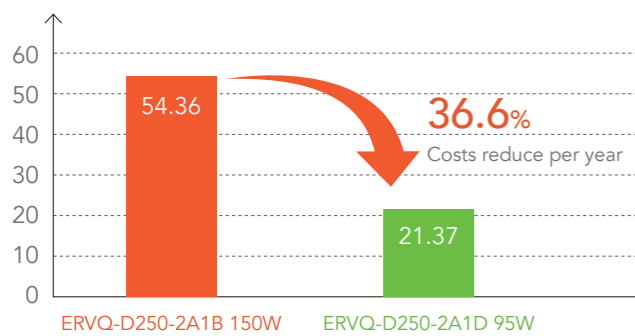
Specifications

Model	Airflow (m ³ /h)	External pressure (Pa)	Enthalpy Eff.(%)		Temp. Eff. (%)	Noise dB(A)	Input power (W)	Volt. (V)	N. W. (Kg)
			Summer	Winter					
ERVQ-D150-2A1 ERVQ-D150-2B1	150	90	59-66	73-80	80-89	35	81	220-240	29
ERVQ-D250-2A1 ERVQ-D250-2B1	250	100	55-70	68-78	73-82	35	121	220-240	32
ERVQ-D350-2A1 ERVQ-D350-2B1	350	130	57-70	68-78	76-83	37	208	220-240	42

Higher Energy Efficiency and Ecology by Powerful Motors

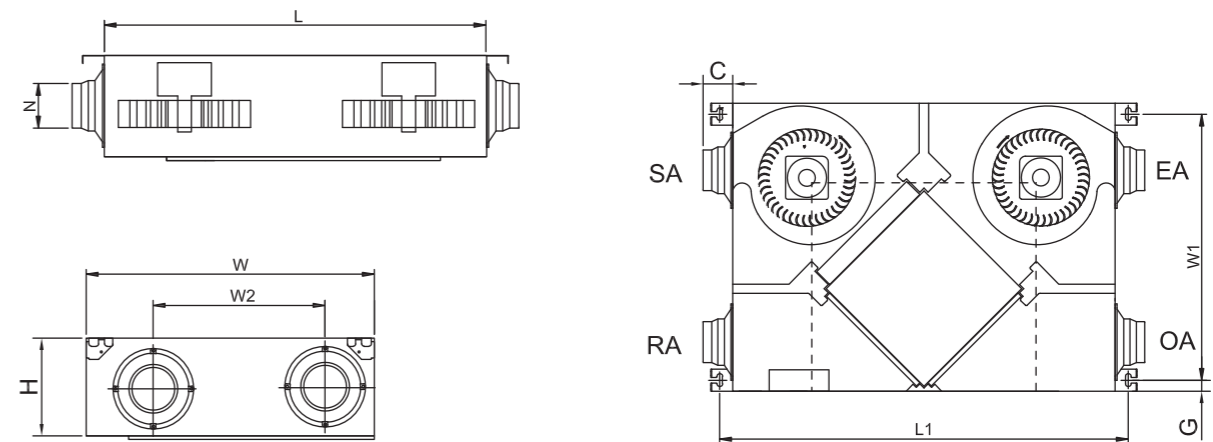
Full series Eco Smart energy recovery ventilator are built with higher efficiency brushless DC motors, power consumption is reduced by up to 70%, resulting in significant energy saving. VSD control is suitable for most of the projects air volume and ESP requirement.

Running costs comparison of Eco-vent pro ERV and Eco-smart pro ERV



Location: Beijing
 Airflow: 250 m³/h
 Summer: 24h/day x 122days =2928h (Jun. To Sep.)
 Winter: 24h/day x 120days =2880h (Nov. To Mar.)
 Electric charge: 0.08 USD/Kw.h

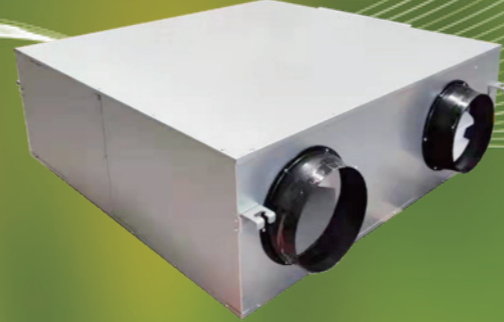
Dimensions



Model	L	L1	W	W1	W2	H	H1	C	G	N
ERVQ-D150-2A1 ERVQ-D150-2B1	860	920	685	618	405	220	-	70	26	Ø98
ERVQ-D250-2A1 ERVQ-D250-2B1	930	990	700	633	425	220	-	70	26	Ø144
ERVQ-D350-2A1 ERVQ-D350-2B1	1070	1130	820	753	550	230	-	70	26	Ø144



ERVO-D600-2B2~ERVO-D13H-2B2



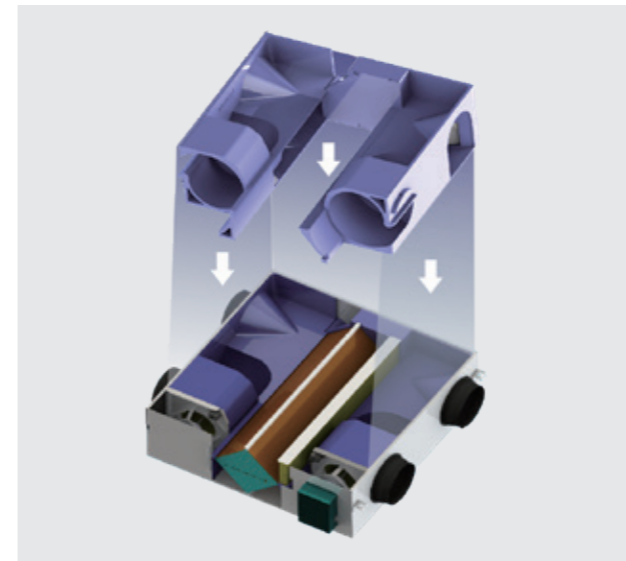
ERVO-D600-2A2~ERVO-D13H-2A2

- | | | | | |
|-----------------------|------------------------|--------------------|---------------------------|-----------------------------|
| DC
DC motor | 10
10 speeds | Physical filtering | Energy recovery | EPS
EPS structure |
| Durable | Good insulation | Easy access | Silent operation | Bypass function |
| Energy saving | Smart control | Filter alarm | RS-485
Central control | IAQ monitor |



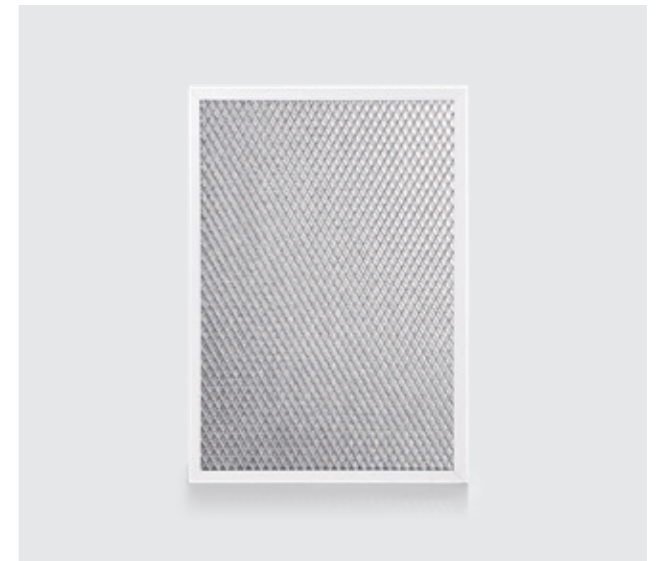
Good Thermal Insulation

The whole series are intergated with EPS structure, effectively preventing condensation, and improving thermal insulation and saving energy consumption.



New Primary Filter

New primary filter is made of aluminium alloy frame and rubber filtration materials with nice appearance and longer service life.



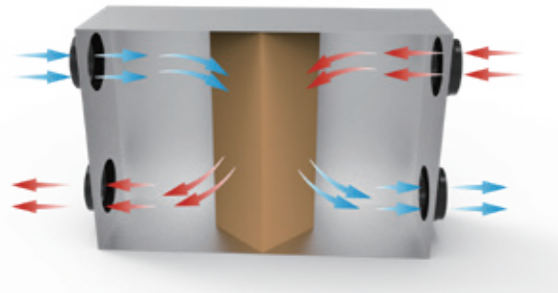
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Optional sub HEPA F9 filter, particle diameter under 2.5µm can be filtered effectively, IAQ (indoor air quality) will be increased obviously.



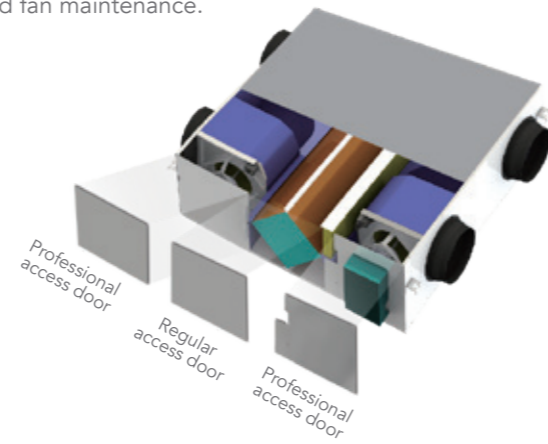
New Compact Structure

New airflow channels are to increase heat exchange surface and improve energy recovery efficiency.



Easy Maintenance

- Regular access door is for maintenance of primary filter, PM2.5 filter and heat exchangers.
- Increase two professional access doors for the control and fan maintenance.

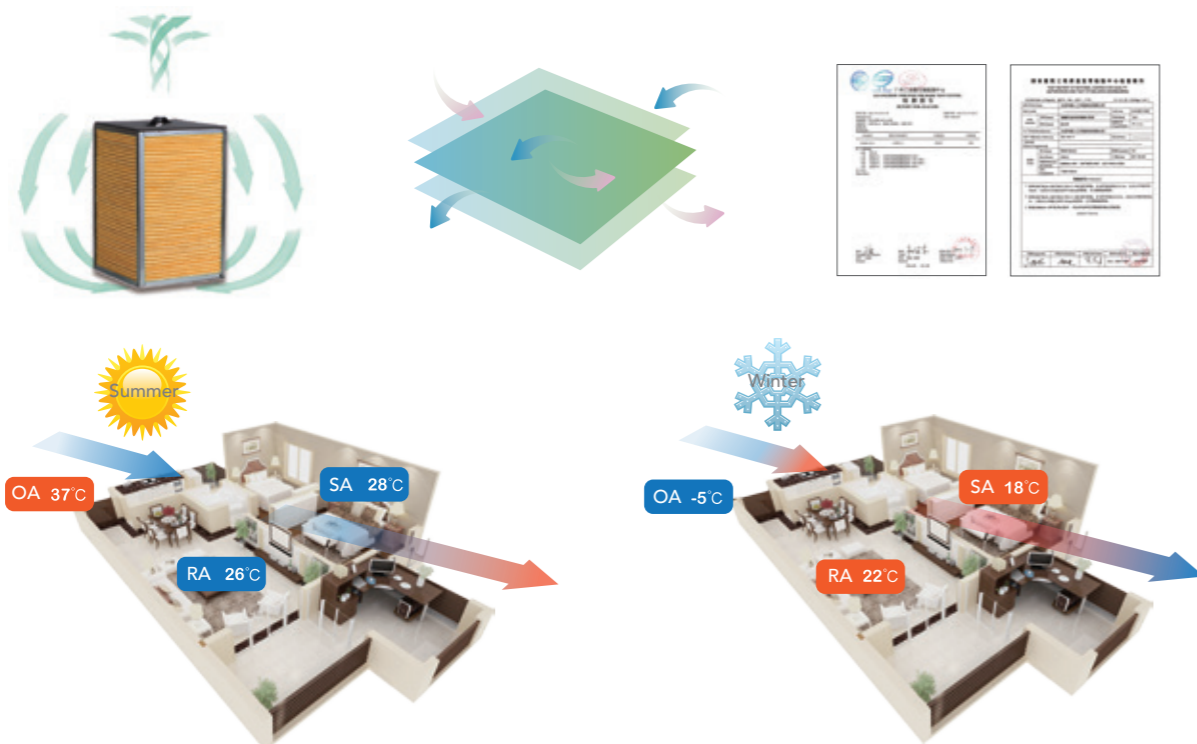


Specifications

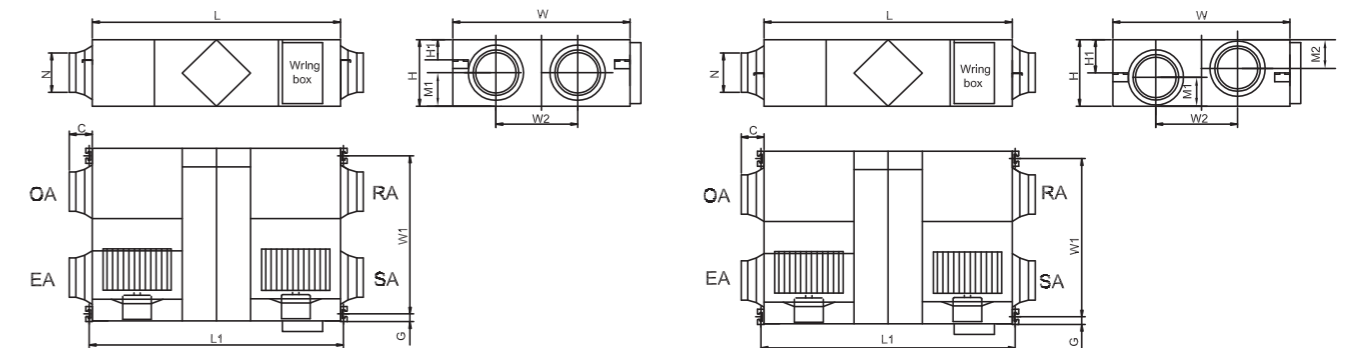
Model	Airflow (m ³ /h)	External pressure (Pa)	Enthalpy Eff.(%)		Temp. Eff. (%)	Noise dB(A)	Voltage (V)	Input power (W)	N. W. (Kg)	Remarks
			Summer	Winter						
ERVQ-D600-2A1	600	87	59-74	61-78	70-83	39	220-240	162	35	With PM2.5 filters
ERVQ-D800-2A1	800	90	55-66	57-76	68-83	41	220-240	290	54	
ERVQ-D10H-2A1	1000	76	58-70	62-75	70-83	42	220-240	327	62	
ERVQ-D13H-2A1	1300	80	56-68	59-70	70-83	43	220-240	424	72	Without PM2.5 filter
ERVQ-D600-2B1	600	97	59-74	61-78	68-83	39	220-240	162	34	
ERVQ-D800-2B1	800	100	55-66	57-76	68-83	41	220-240	290	53	
ERVQ-D10H-2B1	1000	86	58-70	62-75	70-83	42	220-240	327	61	
ERVQ-D13H-2B1	1300	90	56-68	59-70	70-83	43	220-240	424	71	

Higher Efficiency with 3rd Generation Enthalpy Exchanger

The 3rd generation enthalpy exchanger is made of the latest nanofiber structure to ensure higher efficiency. The heat exchange materials are mildew resistance and fire retardance.



Dimensions



ERVQ-D600-2B2~ERVQ-D10H-2B2, ERVQ-D600-2A2~ERVQ-D10H-2A2

ERVQ-D13H-2B2, ERVQ-D13H-2A2

Model	L	L1	W	W1	W2	H	H1	C	G	M1	M2	N
ERVQ-D600-2B2, ERVQ-D600-2A2	867	922	902	833.5	451.5	280	115.5	107	26	139.5	/	Ø194
ERVQ-D800-2B2, ERVQ-D800-2A2	1134	1189	884	818	378	388	128	85	26	194	/	Ø242
ERVQ-D10H-2B2, ERVQ-D10H-2A2	1134	1189	1134	1068	628	388	128	85	26	194	/	Ø242
ERVQ-D13H-2B2, ERVQ-D13H-2A2	1193	1248	1243	1173	629.5	388	133	85	26	139.5	241	Ø242



Intelligent Controller

Intelligent control	HDK-CK-20		LH-12100		10307	
	Black cool intelligent control		Advanced intelligent control			
Type	Black cool intelligent control		Advanced intelligent control			
Suitable series	ERVQ-D600~D13H-2B2 ERVQ-D600~D13H-2A2	ERVQ-D150~D350-2A1 ERVQ-D150~D350-2B1	ERVQ-D600~D13H-2B2 ERVQ-D600~D13H-2A2	ERVQ-D150~D350-2A1 ERVQ-D150~D350-2B1	ERVQ-D600~D13H-2B2 ERVQ-D600~D13H-2A2	ERVQ-D150~D350-2A1 ERVQ-D150~D350-2B1
Temperature display	OA/RA/SA/FR temp.		OA/RA/SA/FR temp.		OA/RA/SA/FR temp.	
10 speed	✓		✓		✓	
Weekly timer	✓		✓		✓	
Bypass	Auto	✗	Auto	✗	Auto	✗
External ON/OFF	✓		✓		✓	
Comfortable heater control	✓		✓		✓	
Defrosting	✓		✓		✓	
CO ₂ control	✓		✓		✓	
Filter alarm	✓		✓		✓	
Fault alarm	✓		✓		✓	
Data memory	✓		✓		✓	
Night free cooling	✓	✗	✓	✗	✓	✗
BMS integration	✓		✓		✓	
Humidity control	✓		✓		✓	
Defrosting heater control	✓		✓		✓	
Working condition monitor	✓		✓		✓	
Sleep mode	✓		✗		✗	
Wifi function	✗		✓		✓	

*The MOQ for intelligent controller LH-12100 and 10307 is 100pcs.



■ **Monitoring indoor air quality**

Monitor local weather, temperature, humidity, CO₂ concentration, VOC at your hand for healthy living.

■ **Variable setting**

Timely switch, speed settings, bypass/timer/filter alarm/temperature setting.

■ **Optional language**

Different language English/French/Italian/Spanish and so on to meet your requirement.

■ **Group control**

One APP can control multiple units.

