

FRESH AIR FOR YOUR LIFE

HOLTOP

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

HOLTOP



ECO-SMART PRO **PLUS**

Energy Recovery Ventilators





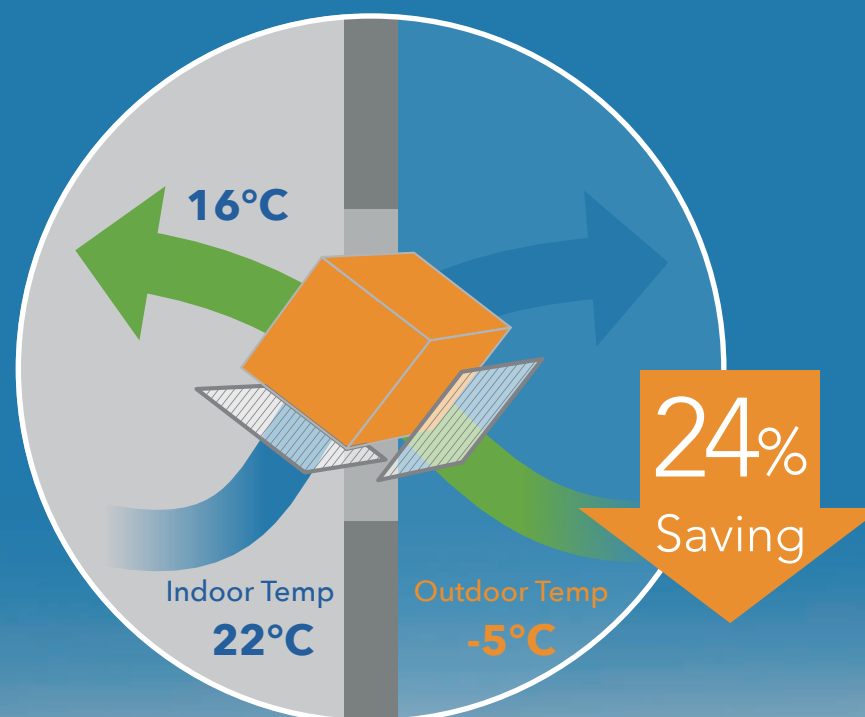
Night Time Free Cooling

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.

Model Descriptions

ERVQ

-

D

600

-

2

C

1

C

1

2

3

4

5

6

7

- 1 ECO-SMRAT 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 C is built in PM2.5 filter, D 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 **PLUS**
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

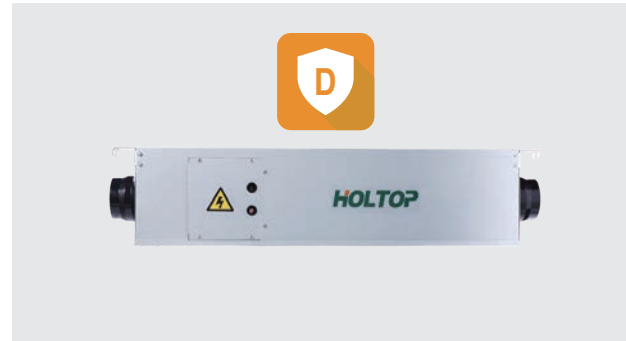
Central control

IAQ monitor



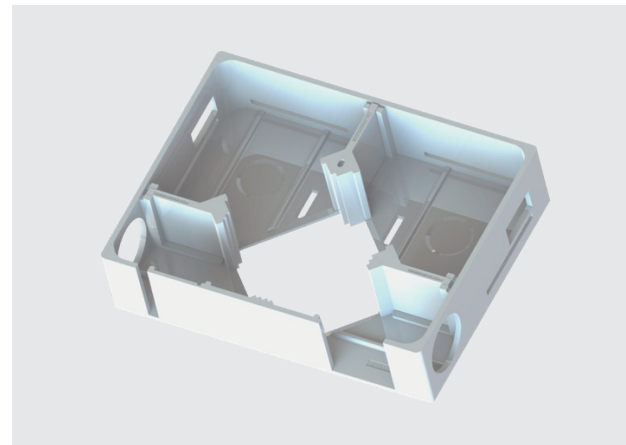
Durable Appearance Design

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



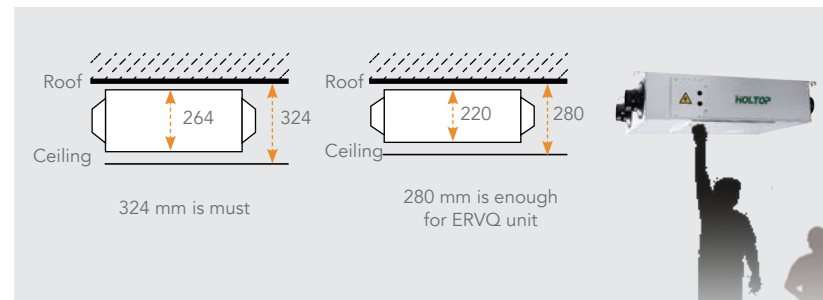
EPS Structure

- 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.



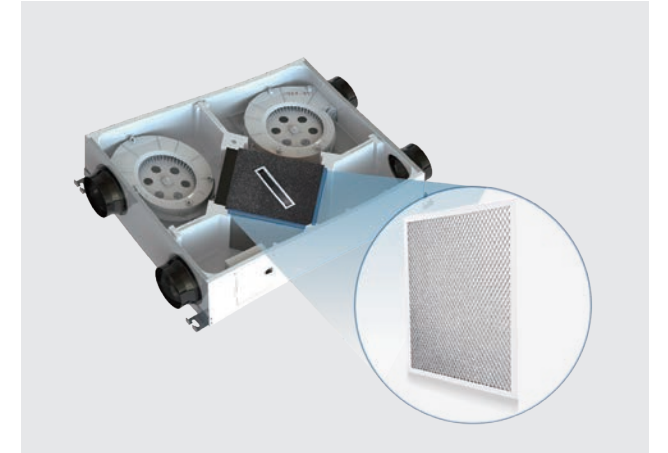
Supper Slim Body Design

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



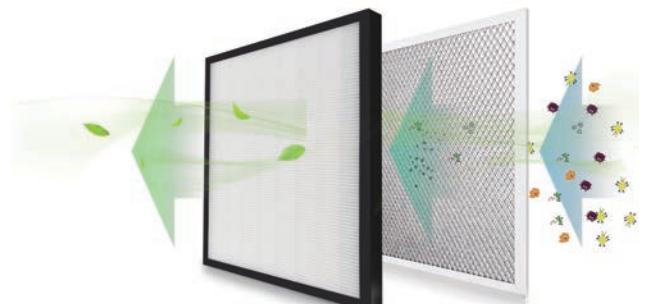
New Primary Filter

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



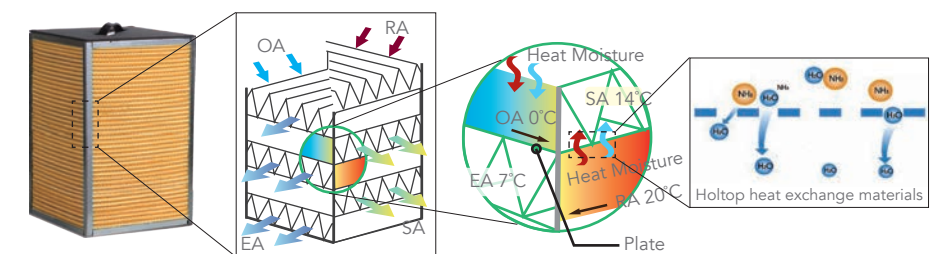
Sub-HEPA F9 Filter Integrated Optional

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.

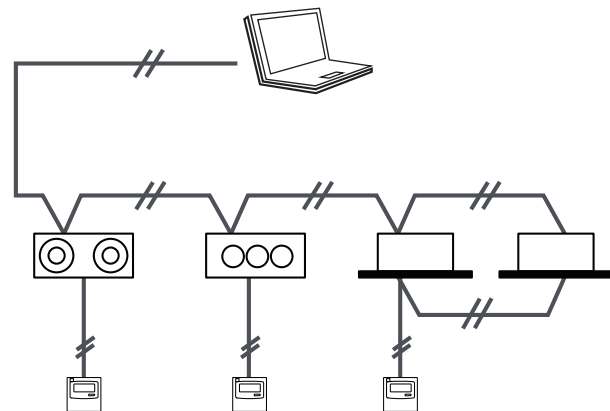


High Efficiency Temperature and Humidity Recovery

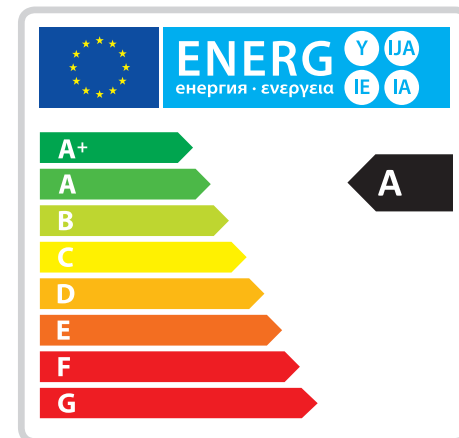
The full Eco-Smart Pro series ERV is built with Holtop crossflow enthalpy exchanger, with efficiency up to 82% in winter, the allowance of moisture exchange between fresh air and exhaust air make a comfortable indoor temperature and humidity.



Linkage with External A/C System or BMS Control



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



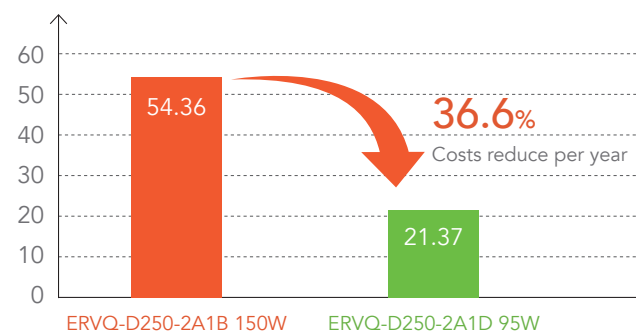
Specifications

Model	Airflow (m³/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	31.5	81	220-240	29
ERVQ-D250-2A1 ERVQ-D250-2B1	250	100	55-70	68-78	73-82	34	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

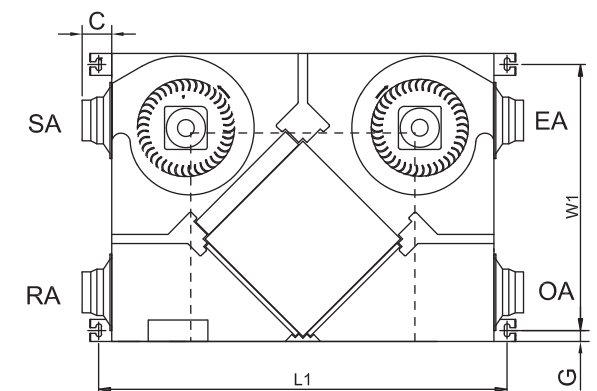
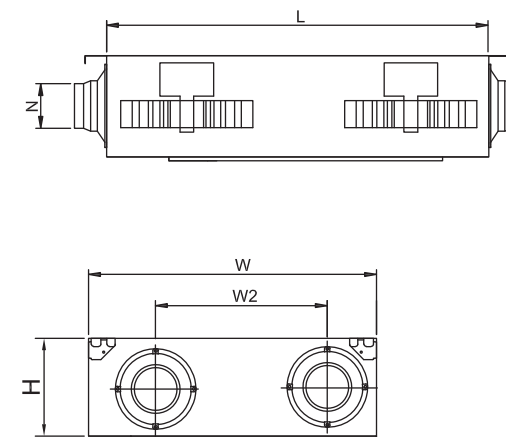
Full series Eco Smart energy recovery ventilator are built with higher efficiency brushless DC motors, power consumption is reduced by up to 70%, resulting in significant energy saving. VSD control is suitable for most of the projects air volume and ESP requirement.

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

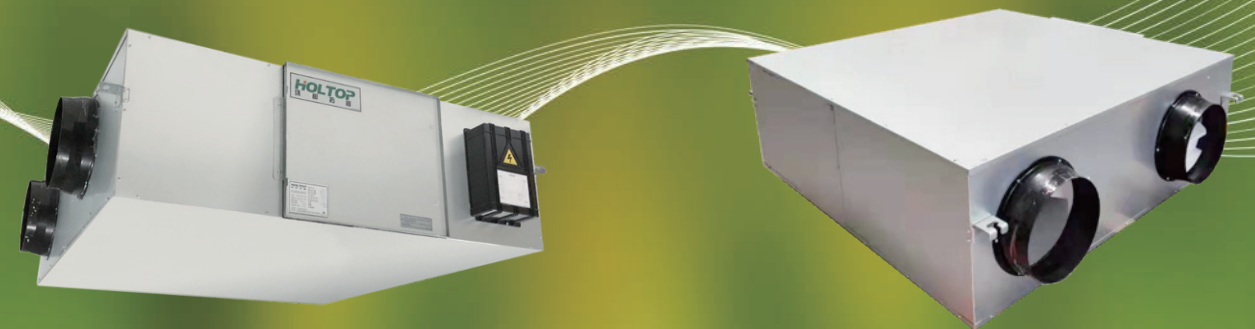


Location: Beijing
 Airflow: 250 m³/h
 Summer: 24h/day x 122days =2928h (Jun. To Sep.)
 Winter: 24h/day x 120days =2880h (Nov. To Mar.)
 Electric charge: 0.08 USD/Kw.h

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



ERVQ-D500-2C2~ERVQ-D10H-2C2

ERVQ-D500-2D2~ERVQ-D10H-2D2



DC motor



10 speeds



Physical filtering



Energy recovery



EPS structure



Durable



Good insulation



Easy access



Silent operation



Bypass function



Energy saving



Smart control



Filter alarm



Central control

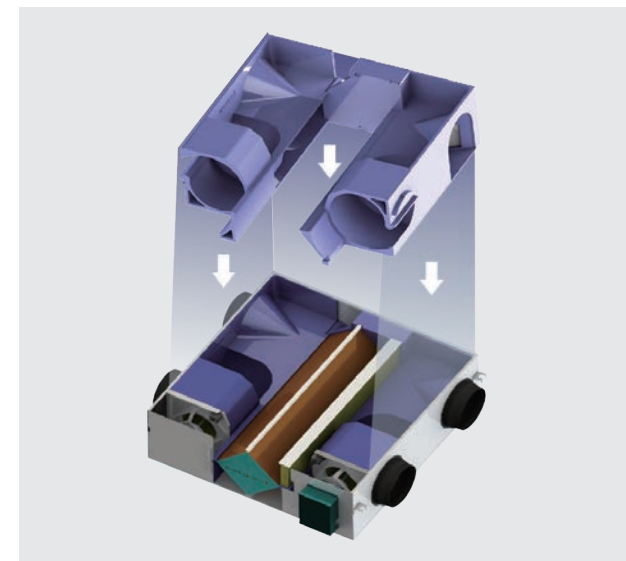


IAQ monitor



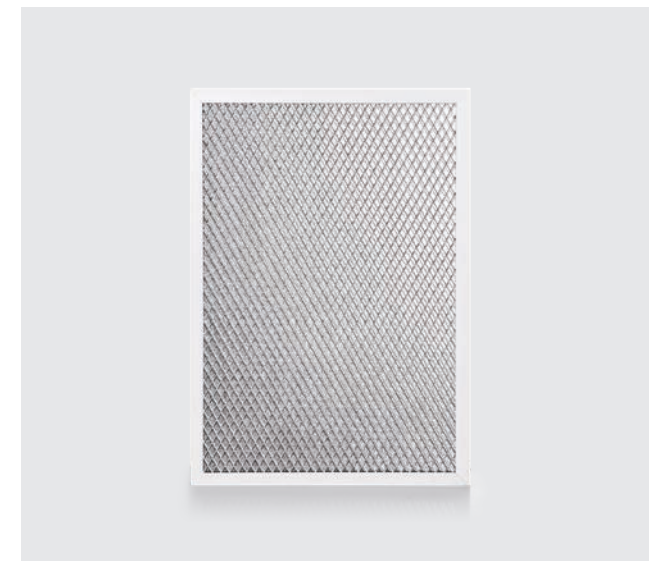
Good Thermal Insulation

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.



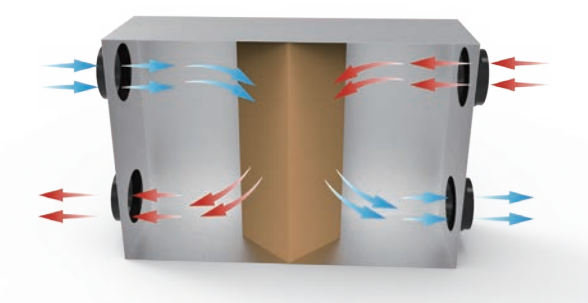
Sub-HEPA F9 Filter Integrated Optional

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.



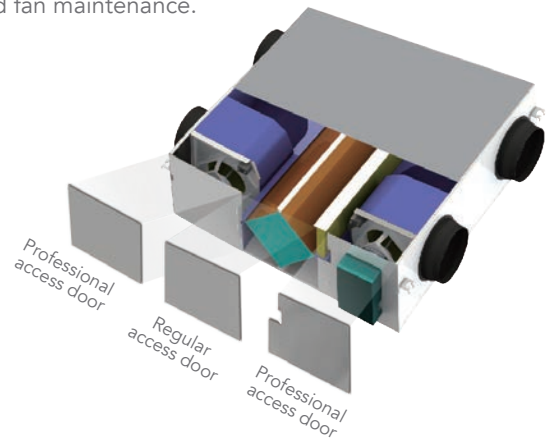
New Compact Structure

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.

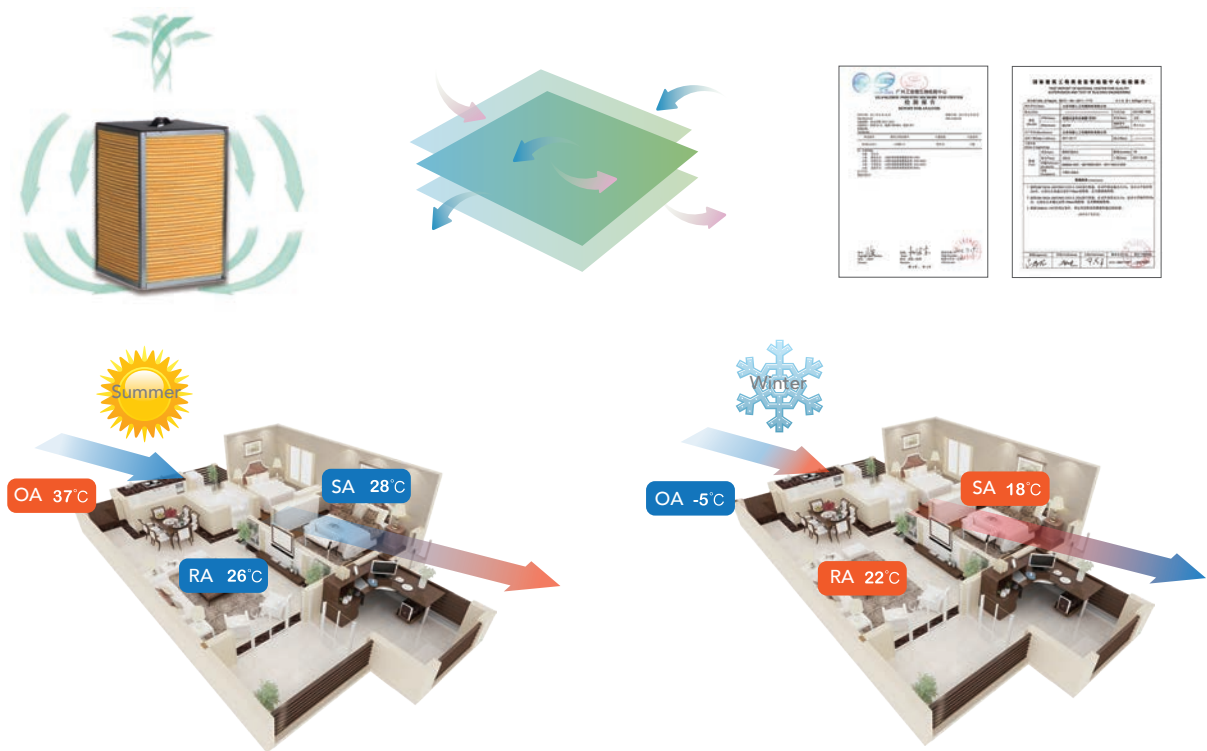


Specifications

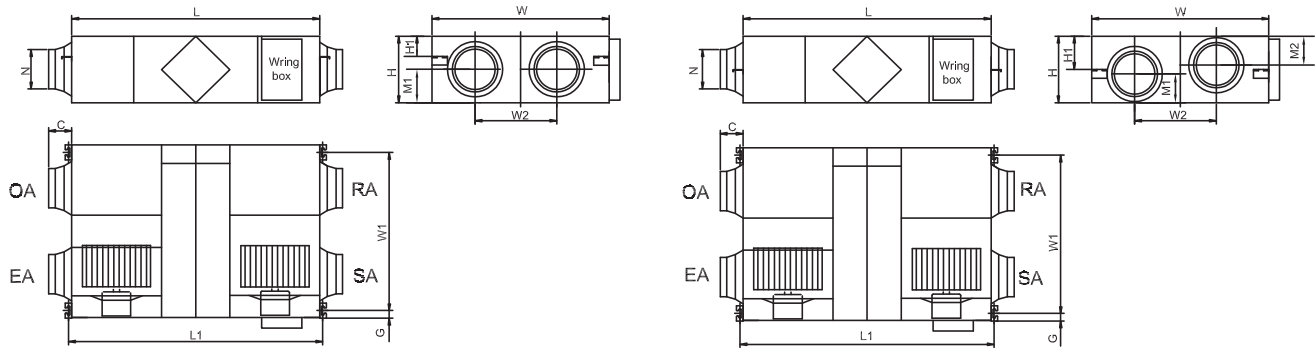
Model	Airflow (m ³ /h)	External pressure (Pa)	Enthalpy Eff.(%)		Temp. Eff. (%)	Noise dB(A)	Voltage (V)	Input power (W)	N. W. (Kg)	Remarks
			Summer	Winter						
ERVQ-D500-2C2	500	110	60-74	63-78	76-85	39	220-240	230	35	With PM2.5 filters
ERVQ-D650-2C2	650	110	63-72	65-76	74-85	41	220-240	363	54	
ERVQ-D800-2C2	800	140	63-71	65-75	76-85	42	220-240	368	62	
ERVQ-D10H-2C2	1000	140	60-70	62-72	76-85	43	220-240	430	72	
ERVQ-D500-2D2	500	120	60-74	63-78	76-85	39	220-240	230	34	Without PM2.5 filter
ERVQ-D650-2D2	650	120	63-72	65-76	74-85	41	220-240	363	53	
ERVQ-D800-2D2	800	150	63-71	65-75	76-85	42	220-240	368	61	
ERVQ-D10H-2D2	1000	150	60-70	62-72	76-85	43	220-240	430	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-D500-2C2~ERVQ-D800-2C2, ERVQ-D500-2D2~ERVQ-D800-2D2

ERVQ-D10H-2C2, ERVQ-D10H-2D2

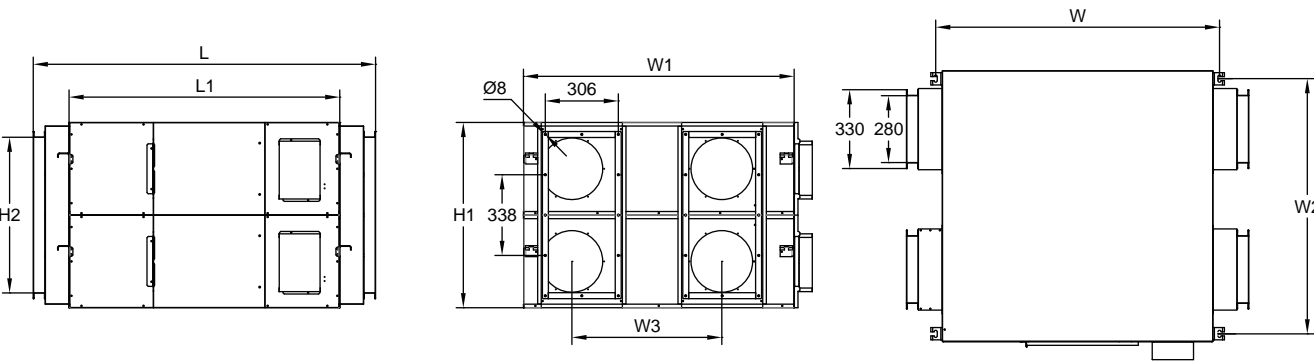
Model	L	L1	W	W1	W2	H	H1	C	G	M1	M2	N
ERVQ-D500-2C2, ERVQ-D500-2D2	867	922	902	833.5	451.5	280	115.5	107	26	139.5	/	Ø194
ERVQ-D650-2C2, ERVQ-D650-2D2	1134	1189	884	818	378	388	128	85	26	194	/	Ø242
ERVQ-D800-2C2, ERVQ-D800-2D2	1134	1189	1134	1068	628	388	128	85	26	194	/	Ø242
ERVQ-D10H-2C2, ERVQ-D10H-2D2	1193	1248	1243	1173	629.5	388	133	85	26	139.5	241	Ø242

Specifications



Model	Airflow (m³/h)	External pressure (Pa)	Enthalpy Eff.(%)		Temp. Eff. (%)	Noise dB(A)	Voltage (V)	Input power (W)	N. W. (Kg)	Remarks
			Summer	Winter						
ERVQ-D15H-2C2	1500	95	63-71	65-75	76-85	50	220-240	700	147	With PM2.5 filters
ERVQ-D20H-2C2	2000	115	60-70	62-72	76-85	51.5	220-240	724	167	
ERVQ-D26H-2C2	2600	115	58-66	59-75	74-82	55	220-240	848	190	
ERVQ-D15H-2D2	1500	105	63-71	65-75	76-85	50	220-240	700	146	Without PM2.5 filter
ERVQ-D20H-2D2	2000	125	60-70	62-72	76-85	51.5	220-240	724	166	
ERVQ-D26H-2D2	2600	125	58-66	59-75	74-82	55	220-240	848	189	

Dimensions

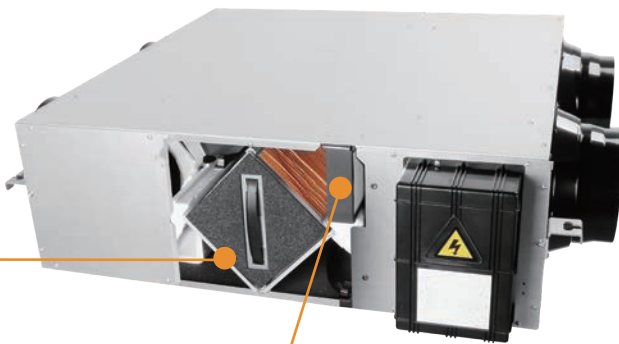


ERVQ-D15H-2C2~ERVQ-D20H-2C2,ERVQ-D15H-2D2~ERVQ-D20H-2D2

Model	L	L1	W	W1	W2	W3	H1	H2
ERVQ-D15H-2C2, ERVQ-D15H-2D2	1434	1134	1189	884	818	378	776	280
ERVQ-D20H-2C2, ERVQ-D20H-2D2	1434	1134	1189	1134	1068	628	776	280
ERVQ-D26H-2C2, ERVQ-D26H-2D2	1493	1193	1248	1243	1173	629.5	776	280

Optional Filters

We also have optional filters for customers to use in different environment of air cleanness. If you need performance curves for different filters, please contact our sales team.



Optional Fresh Air Filters:



Activated Carbon
Primary Filter



F7 Filter

Optional Supply Air Filters:















H10 Filter



H13 High Efficient Filter

Air Filter Guide

G3 / Activated Carbon Primary Filter MERV 6	F7 Filter MERV 11	F9 / H10 Filter MERV 13	H13 Filter MERV 16
 Lasts up to 3 months	 Lasts up to 3 months	 Lasts up to 3 months	 Lasts up to 3 months
 Ideal for home use	 Ideal for home and business use	 Ideal for home and business use	 Ideal for home and business use
 Traps 50% of airborne particles	 Traps 95% of airborne particles	 Traps 98% of airborne particles	 Traps 99.9% of airborne particles



Intelligent Controller

Intelligent control	 HDK-CK-20		 LH-12100		 10307	
Type	Black cool intelligent control		Advanced intelligent control			
Suitable series	ERVQ-D500~D10H-2C2 ERVQ-D500~D10H-2D2	ERVQ-D150~D350-2A1 ERVQ-D150~D350-2B1	ERVQ-D500~D10H-2C2 ERVQ-D500~D10H-2D2	ERVQ-D150~D350-2A1 ERVQ-D150~D350-2B1	ERVQ-D500~D10H-2C2 ERVQ-D500~D10H-2D2	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.

