

5 years
warranty
for motors



CE

MISS SLIM SERIES

Energy Recovery Ventilator



22



Beijing Holtop Air Conditioning Co., Ltd.



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ENERGY RECOVERY VENTILATION SPECIALIST

Holtop is the leading manufacturer in China specializing in the production of air to air heat recovery equipment. Founded in 2002, it is dedicated to the research and technology development in the field of heat recovery ventilation and energy saving air handling equipment for more than 17 years.

Holtop headquarters is located in the foot of Beijing Baiwangshan Mountain, covering area of 30,000 square meters. The manufacturing base is in Beijing's Badaling Economic Development Zone, covering an area of 60 acres, with an annual production capacity of 200,000 units of air heat recovery equipment. Holtop builds a sound certificate system of ISO9001, ISO14001 and OHSAS18001 as well as product certification systems. Moreover, it has a laboratory certified by nation authority. As a well-known manufacturer in the field of heat recovery, Holtop has a strong R&D team and possesses dozens of national invention patents, and has participated in the compilation work of several national standards, and is also certified as Zhongguancun High-Tech Enterprise.

Holtop has mastered the core technology of heat recovery, independently developing products like plate and rotary heat exchanger, various heat & energy recovery systems and air handling units. Products have been exported to more than 41 countries and regions. Holtop continuously ranks the top in domestic market of heat and energy recovery ventilators.

Holtop will always committed to the mission of delivering highly efficient and energy saving products and solutions to improve indoor air quality, to ensure people's health and protect our earth.



CERTIFICATION

After years of dedication to the research and technology development in the filed of heat recovery and indoor air quality, Holtop has many achievements on the product innovation and quality management, which is certified by National and International authorities.



Product Patent Certificates



Energy Saving Product Certificates



Test lab Verification Certificates



CE Certificates



ISO9001 / ISO14001 / OHSAS18001 Certificates



Model description

ERVQ - D - 2 A 1

① ② ③ ④ ⑤



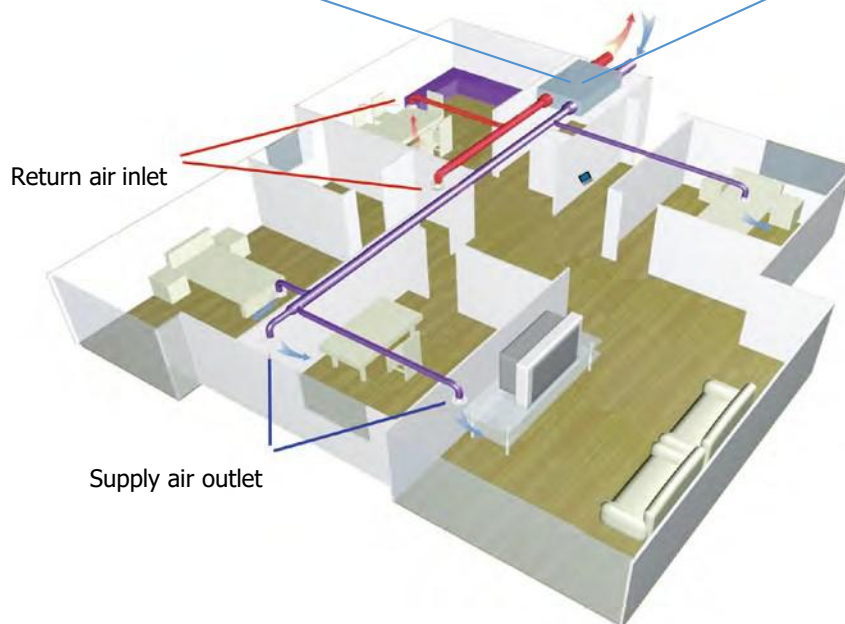
- ① *Holtop energy recovery ventilator*
- ② *“D” stands for Ceiling Suspended type*
- ③ *Nominal airflow (CMH)*
- ④ *Series No.*
- ⑤ *“A” stands for standard model; “1” for design No.*



Supper Slim ERV

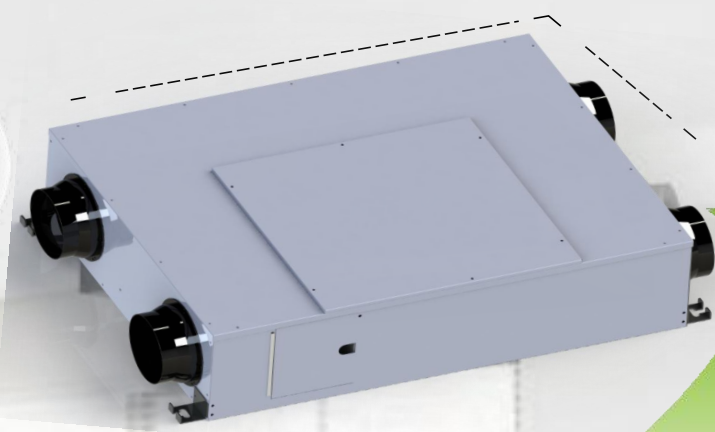


ERV with PM2.5 filter



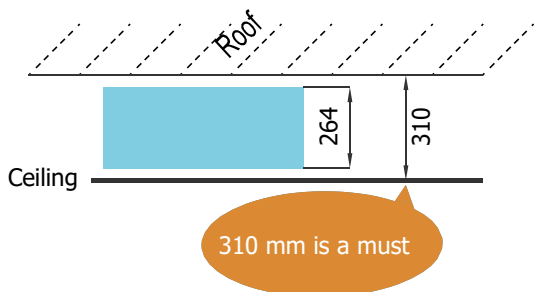
MISS SLIM SERIES ERV

- Slim Design
- Energy Efficient
- Quiet Operation

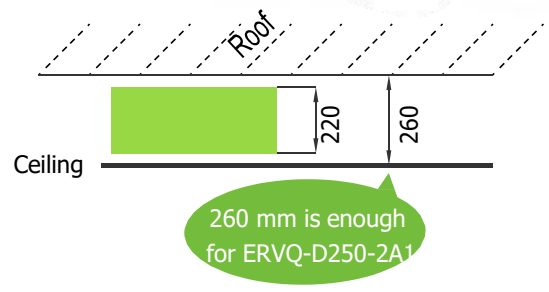


Super slim design, minimizing installation space

Thickness down from 264mm to 220mm, saving space by about 20%



Conventional unit



slim unit

Energy saving for long term cooperation

Live in Beijing, save your running costs **USD267.195/year**

Airflow (m ³ /h)	Heat recovery efficiency (%)	Electricity saving in summer (Kw.h)	Electricity saving in winter (Kw.h)	Electricity saving in a year (Kw.h)	Running costs saving (USD)
250	59/73	1001.38	2338.56	3339.94	267.195

Conditions:

- Airflow: 250m³/h
- Running time of air conditioning system
- Summer: 24h/day X 122days = 2928h (Jun. to Sep.)
- Winter: 24h/day X 120days = 2880h (Nov. to Mar.)
- Electric charge: 0.08USD/Kw.h
- Indoor conditions: Cooling 26 °C (RH 50%), Heating 20 °C (RH50%)
- Outdoor conditions: Cooling 33.2 °C (RH 59%), Heating -10 °C (RH45%)

Quiet operation

- High quality motor

Japanese NSK specially used bearing
longer service life
less operating noise
Closed construction
5 years warranty

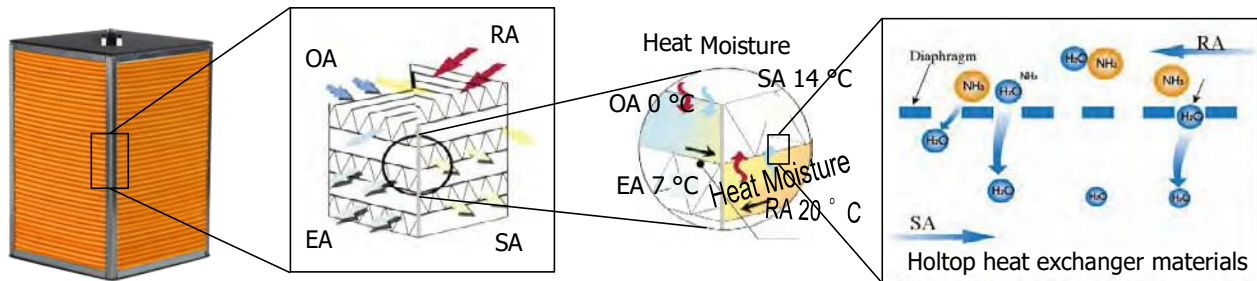
- Stable operation of blower

Blower made of ABS
Moulding production
Good dynamic balance



High energy recovery

Equipped with Holtop crossflow energy exchanger with following features:



- Higher energy exchange efficiency

The heat recovery efficiency is up to 82% in winter.

- Selective molecule permeability

Holtop energy exchanger is made of 3rd generation ER paper featured by high moisture permeability, good air tightness, excellent tear resistance, and aging resistance. The clearance between the fibers can penetrate small moisture molecules only, preventing the pollutants infiltrating to the fresh air.

- Flame retardant and Mildew resistance

Mildew resistance reaches
0 grade of American ASTM
G21 standards



Mildew resistance test report



Flame retardant test report

Easy installation and maintenance

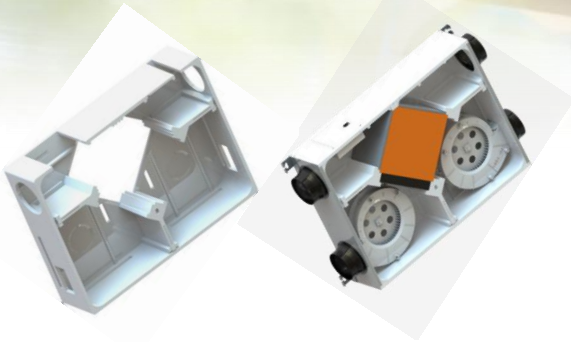
The access panel is at the bottom, the maintenance space requires 550*550mm only, saving installation works and easy to maintain. User can maintain the motors, heat exchangers, filters and the control system through it.



MISS SLIM SERIES ERV

High efficient PM2.5 filter
filtration efficiency up to 99%,
Breathing cleaner air

PM2.5 Filtration effectiveness 99%



Slim Series

EPS Integrated Inner construction

1. Double high efficient filters, PM2.5 filtration efficiency up to 99%.
2. EPS integrated thermal inner construction
3. Operating theatre clean class material
4. Filtration class is up to F9, passing national GB/T 14295 standards



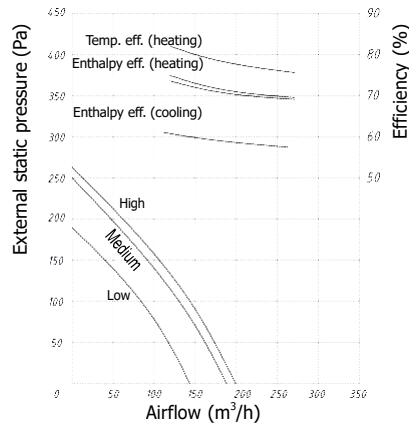
Filtration efficiency test report

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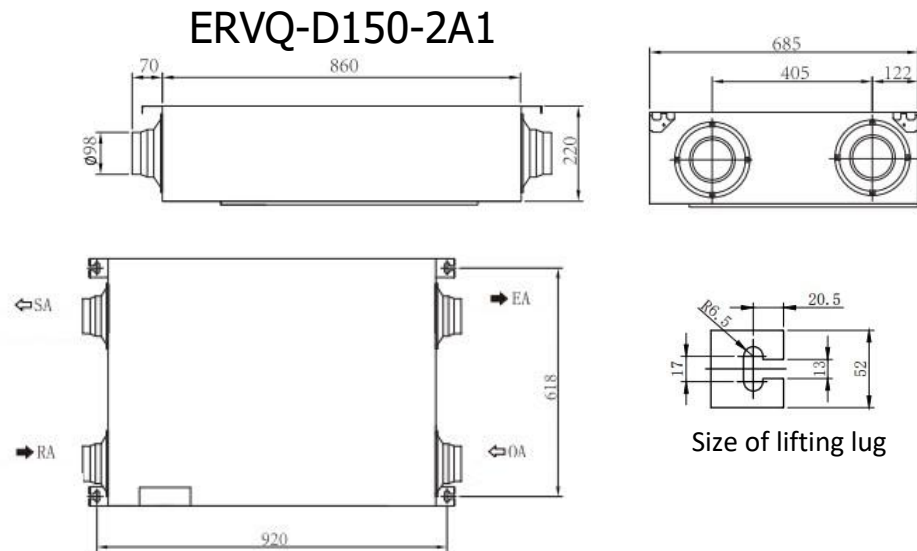


ERVQ-D150-2A1

Performance Chart



Dimensions



Remark:

1. Suitable duct diameter is $\phi 100$
2. The dimensions don't include the thickness of insulation material;
3. It has an access door (500x500mm) on the bottom for the maintenance of filters, heat exchangers, fan, motor;
4. Please clean the filters and heat exchangers 2 to 4 times every year.

Model	Fan speed	Airflow (m³/h)	E.S.P (Pa)	Temp. efficiency (%)	Enthalpy efficiency (%)		Noise dB(A)	Volt (V)	Current (A)	Input power (W)	Weight (kg)
					Cooling	Heating					
ERVQ - D150-2A1	H	150	90	80	59	73	31.5	220V-50Hz	0.47	102	29
	M	150	70	80	59	73	31		0.46	98	
	L	120	45	82	61	75	23		0.45	93	

Remarks:

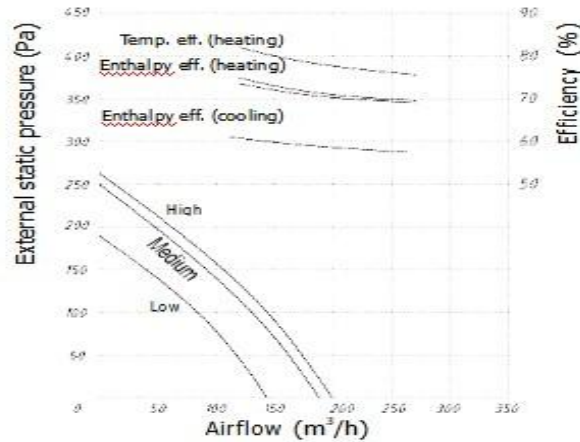
1. The input power, current and temp. efficiency are tested under standard airflow.
2. The noise is tested 1.5m below unit in a semi-anechoic noise testing room. And due to the effect of the ambient noise, it's bigger in the actual applications.
3. All data is tested according to National Standards GB/T 21087-2007.

MISS SLIM SERIES ERV



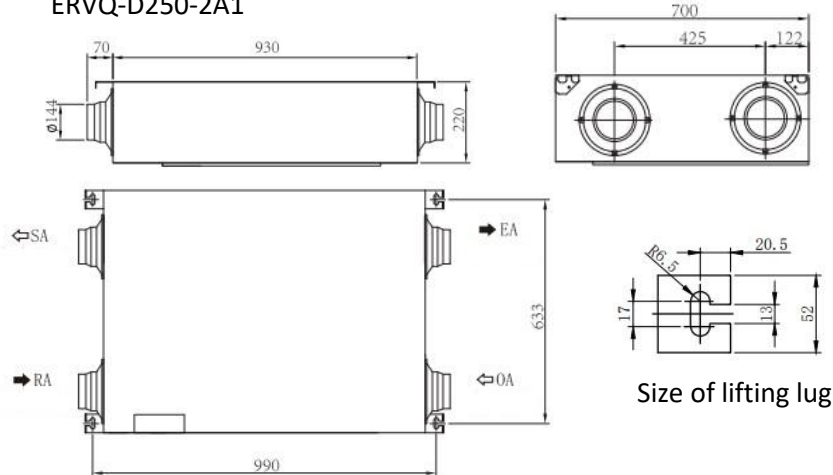
ERVQ-D250-2A1

Performance Chart



Dimensions

ERVQ-D250-2A1



Remark:

1. Suitable duct diameter is $\phi 150$;
2. The dimensions don't include the thickness of insulation material;
3. It has an access door (500x500mm) on the bottom for the maintenance of filters, heat exchangers, fan, motor;
4. Please clean the filters and heat exchangers 2 to 4 times every year.

Specifications

Model	Fan speed	Airflow (m³/h)	E.S.P (Pa)	Temp. efficiency (%)	Enthalpy efficiency (%)		Noise dB(A)	Volt (V)	Current (A)	Input power (W)	Weight (kg)
					Cooling	Heating					
ERVQ - D250-2A1	H	250	100	73	55	68	34	220V-50Hz	0.71	150	32
	M	250	50	73	55	68	33.5		0.60	148	
	L	210	35	75	57	70	26.5		0.58	123	

Remarks:

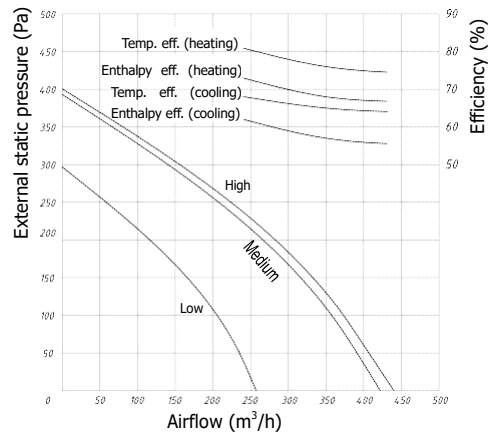
1. The input power, current and temp. efficiency are tested under standard airflow.
2. The noise is tested 1.5m below unit in a semi-anechoic noise testing room. And due to the effect of the ambient noise, it's bigger in the actual applications.
3. All data is tested according to National Standards GB/T 21087-2007.

MISS SLIM SERIES ERV

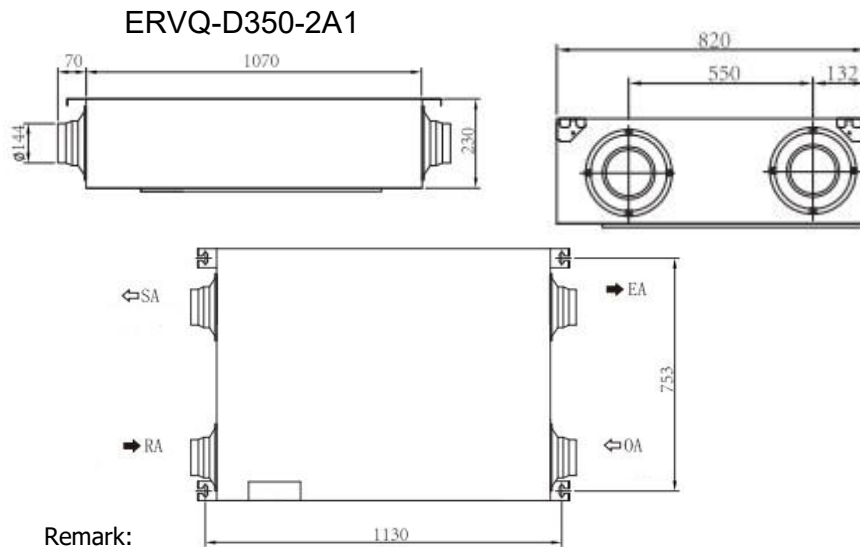


ERVQ-D350-2A1

Performance Chart



Dimensions



Remark:

1. Suitable duct diameter is $\phi 150$;
2. The dimensions don't include the thickness of insulation material;
3. It has an access door (500x500mm) on the bottom for the maintenance of filters, heat exchangers, fan, motor;
4. Please clean the filters and heat exchangers 2 to 4 times every year.

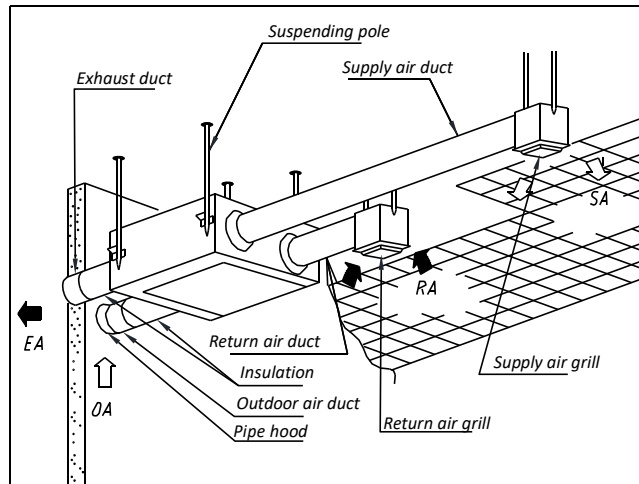
Specifications

Model	Fan speed	Airflow (m³/h)	E.S.P (Pa)	Temp. efficiency (%)	Enthalpy efficiency (%)		Noise dB(A)	Volt (V)	Current (A)	Input power (W)	Weight (kg)
					Cooling	Heating					
ERVQ - D350-2A1	H	350	130	76	57	68	37	220V-50Hz	1.07	233	42
	M	350	110	76	57	68	36.5		1.05	230	
	L	240	40	81	62	73	31		0.97	209	

Remarks:

1. The input power, current and temp. efficiency are tested under standard airflow.
2. The noise is tested 1.5m below unit in a semi-anechoic noise testing room. And due to the effect of the ambient noise, it's bigger in the actual applications.
3. All data is tested according to National Standards GB/T 21087-2007.

Installation Diagram




Attentions

- Heat insulation is needed for outdoor and indoor air ducts.
- Outdoor air may intrude into the room through air ducts when outdoor temperature is very low or air speed is high.
- Outdoor air ducts should incline outdoor in case of the rain inflow.
- Please install product according to the reference diagram, the access door should face down.
- Please connect the air ducts according to the air side indicated on the label of the spigot, to prevent frosting.
- The accessories in the diagram like air ducts, screws, suspending poles, grilles, etc. are not included.

Working conditions

For slim ERV		
Outdoor air conditions Temperature from -10°C ~ 40°C Humidity below 85%	<div style="border: 1px dashed orange; padding: 5px;"> For example Indoor air conditions Cooling Temperature 27°C Humidity 50% Heating Temperature 20°C Humidity 40% </div>	* Indoor air here means the room air with air conditioning. It is not suitable to use in refrigerated storage or anywhere temperature changes rapidly though the temperature is within the range.
Indoor air conditions Temperature from -10°C ~ 40°C Humidity below 85%		
Installation requirements Same as indoor air conditions		

Controller

<p>Controller (HDK-19V-E)</p>	
Type	Intelligent control
Temperature display	●
Speed selection	●
Weekly timer	●
Bypass	✕
External ON/OFF	●
Comfortable heater control	●
Defrosting	●
CO2 control	●
Filter alarm	●
Fault alarm	●
Data memory	●
Night free cooling	✕
BMS integration	●
Humidity control	●
Defrosting heater control	●
Working condition monitor	●

● : Applicable ✕ : Not Applicable



Optional infrared CO₂ sensor or temperature and humidity sensor and heater



HOLTOP

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