

FRESH AIR FOR YOUR LIFE



SMART-ECO **PRO**

Energy Heating Recovery Unit





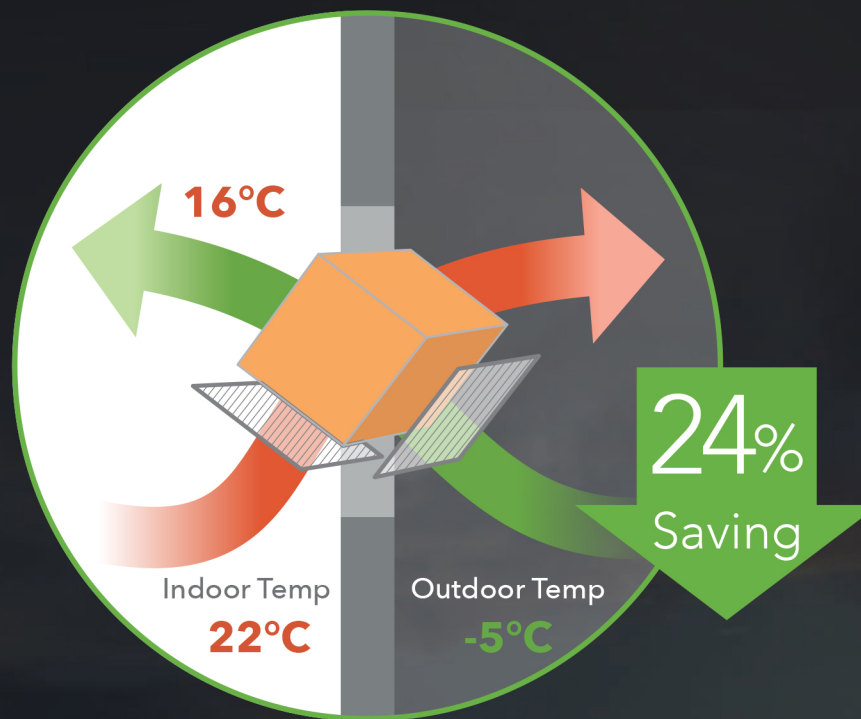
Night Time Free Cooling

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.

EHRU 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

EHRUS - D 150 - 2 A 1 D

1 2 3 4 5 6 7

- 1 SMART-ECO 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

SMART-ECO PRO

Energy Heating Recovery Unit



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



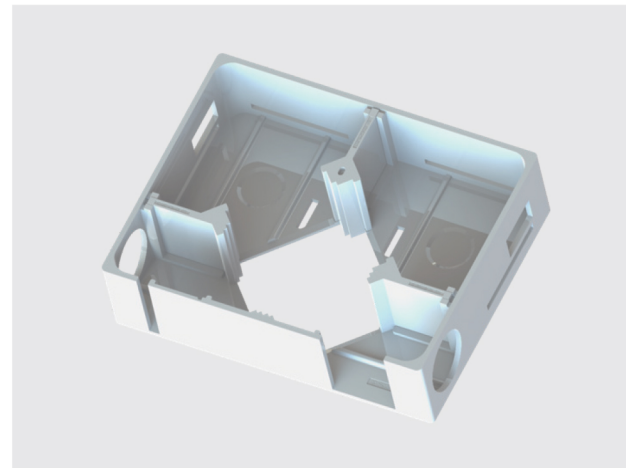
Durable Appearance Design

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



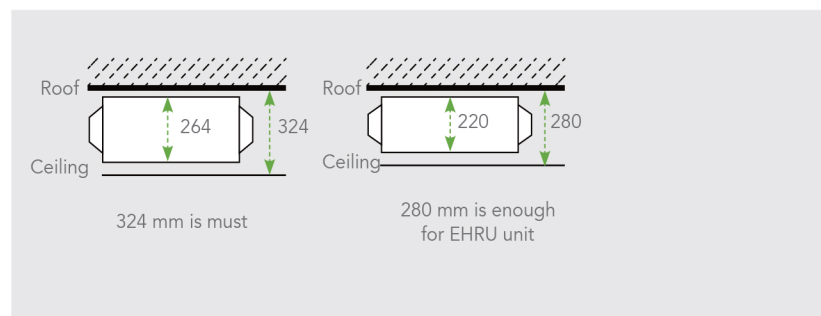
EPS Structure

- 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.



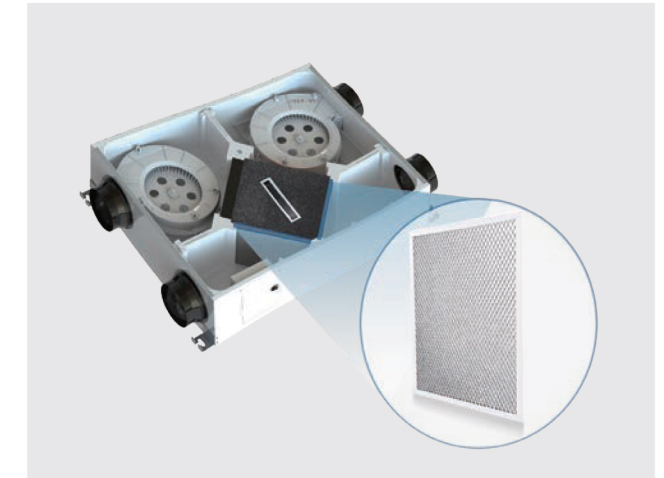
Supper Slim Body Design

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



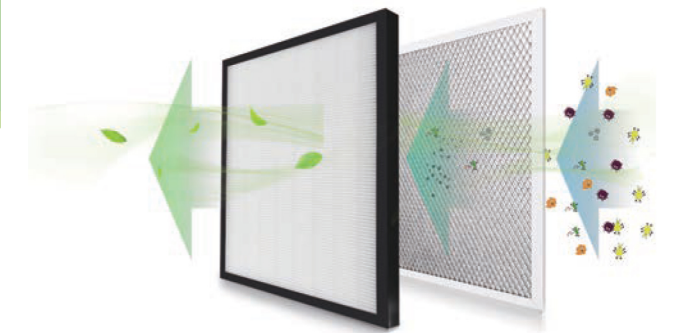
New Primary Filter

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



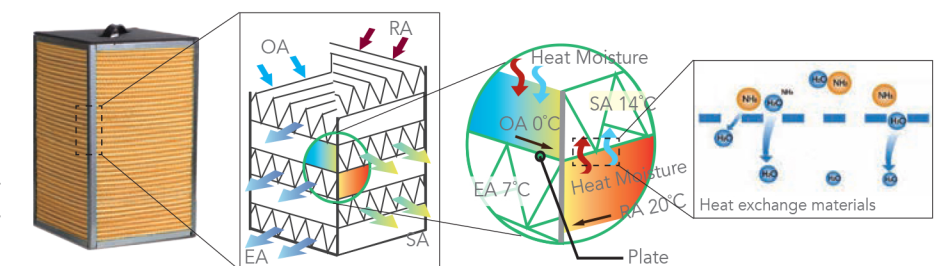
Sub-HEPA F9 Filter Integrated Optional

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.

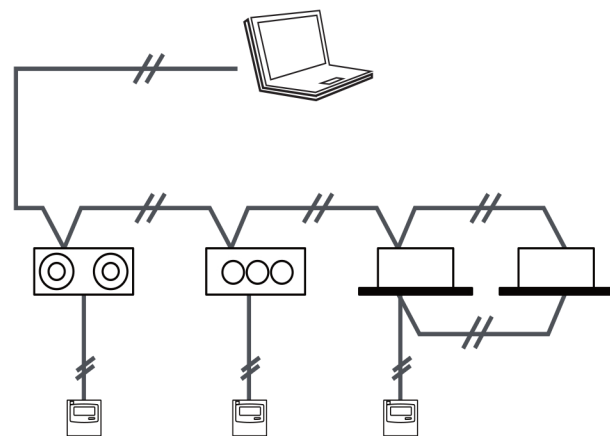


High Efficiency Temperature and Humidity Recovery

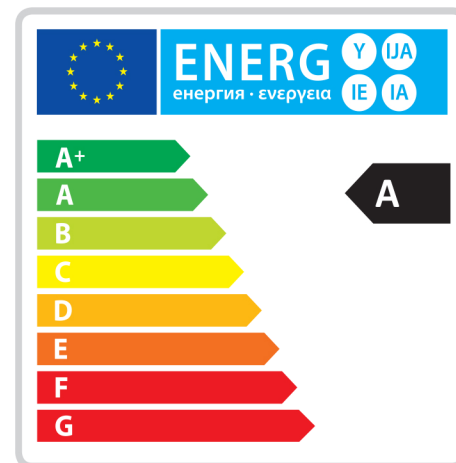
The full Smart-Eco Pro series EHRU is built with crossflow enthalpy exchanger, with efficiency up to 82% in winter, the allowance of moisture exchange between fresh air and exhaust air make a comfortable indoor temperature and humidity.



Linkage with External A/C System or BMS Control



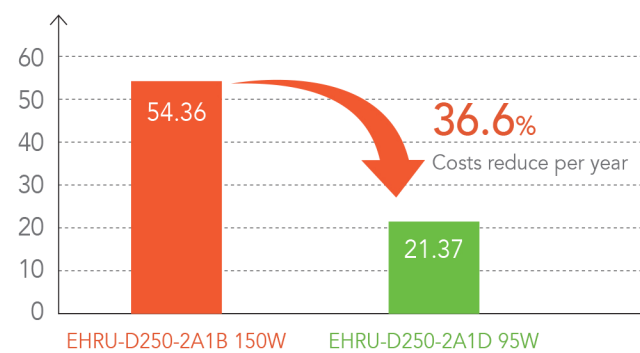
Energy Efficiency Class of A (According to EU NO. 1254/2014)



Higher Energy Efficiency and Ecology by Powerful Motors

Full series Smart Eco energy heating recovery units 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 Vent-Eco pro EHRU and Smart-Eco pro EHRU

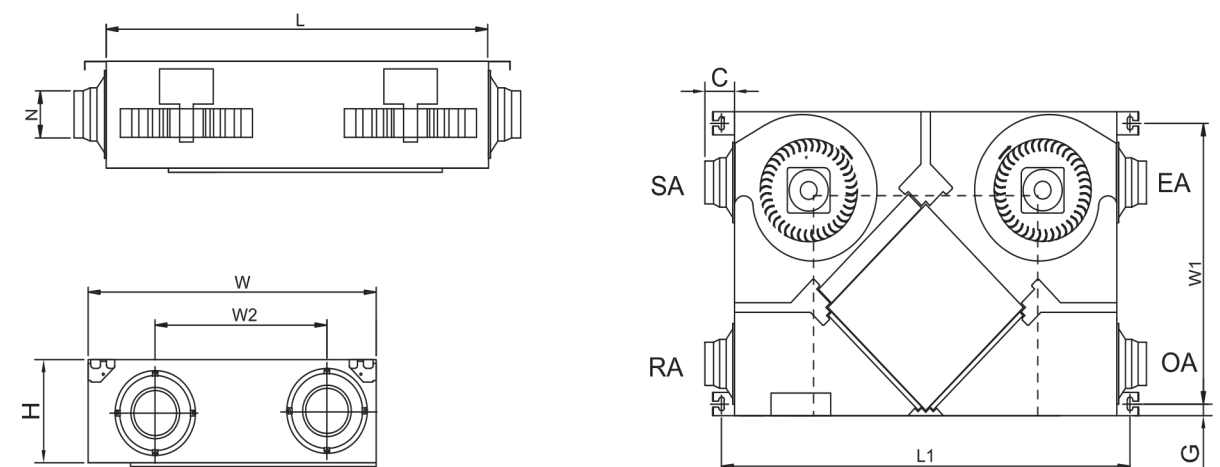


Location: Beijing
 Airflow: 250 m³/h
 Summer: 24h/day x 122days = 2928h (Jun. To Sep.)
 Winter: 24h/day x 120days = 2880h (Nov. To Mar.)
 Electric charge: 0.08 USD/Kw.h

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					
EHRUS-D150-2A1 EHRUS-D150-2B1	150	90	59-66	73-80	80-89	31.5	81	220-240	29
EHRUS-D250-2A1 EHRUS-D250-2B1	250	100	55-70	68-78	73-82	34	121	220-240	32
EHRUS-D350-2A1 EHRUS-D350-2B1	350	130	57-70	68-78	76-83	37	208	220-240	42

Dimensions



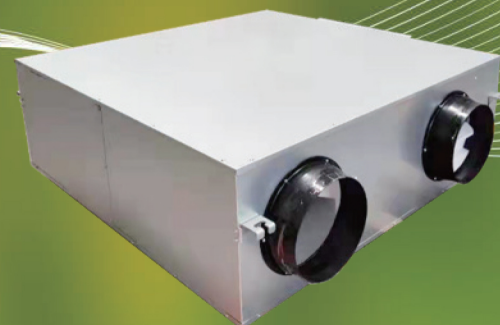
Model	L	L1	W	W1	W2	H	H1	C	G	N
EHRUS-D150-2A1 EHRUS-D150-2B1	860	920	685	618	405	220	-	70	26	Ø98
EHRUS-D250-2A1 EHRUS-D250-2B1	930	990	700	633	425	220	-	70	26	Ø144
EHRUS-D350-2A1 EHRUS-D350-2B1	1070	1130	820	753	550	230	-	70	26	Ø144

SMART-ECO ^{PRO}

Energy Heating Recovery Unit



EHRUS-D600-2B2~EHRUS-D13H-2B2



EHRUS-D600-2A2~EHRUS-D13H-2A2



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



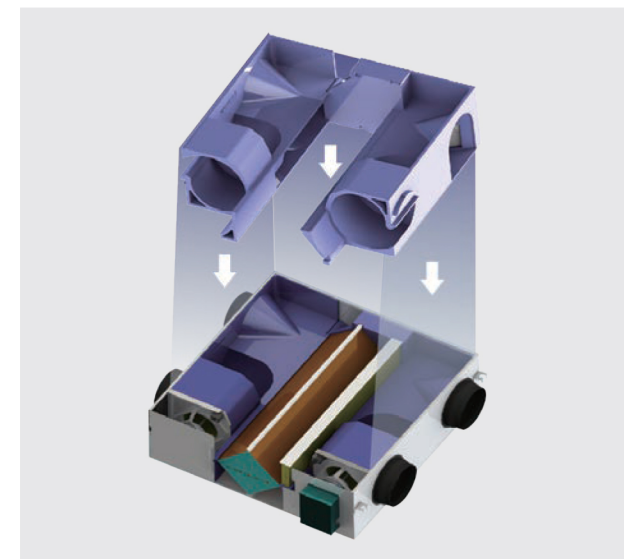
Central control



IAQ monitor

Good Thermal Insulation

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



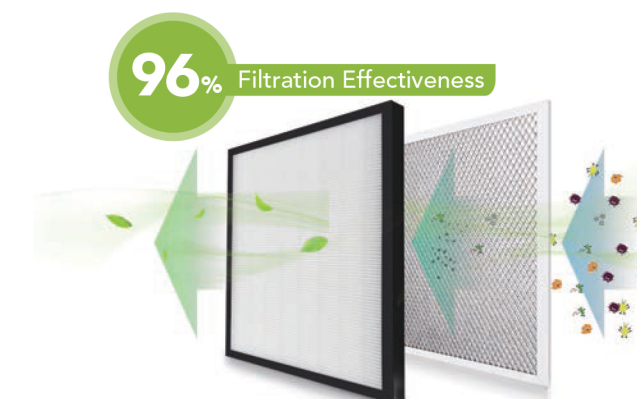
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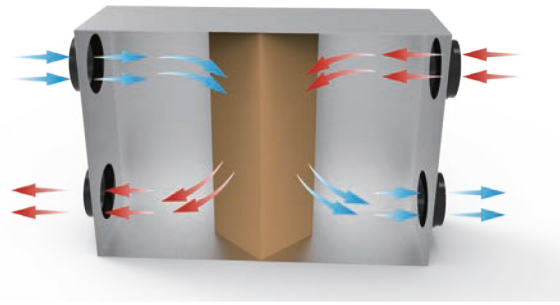
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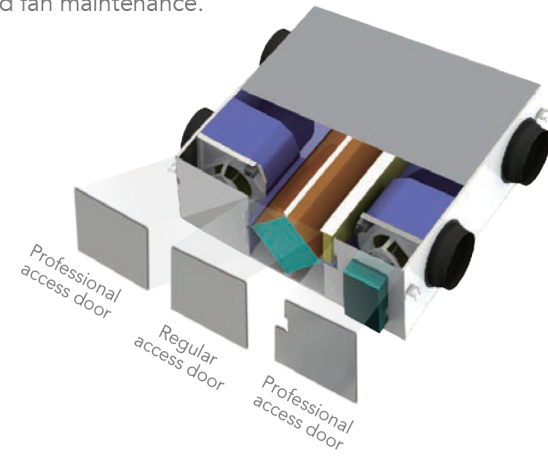
New Compact Structure

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



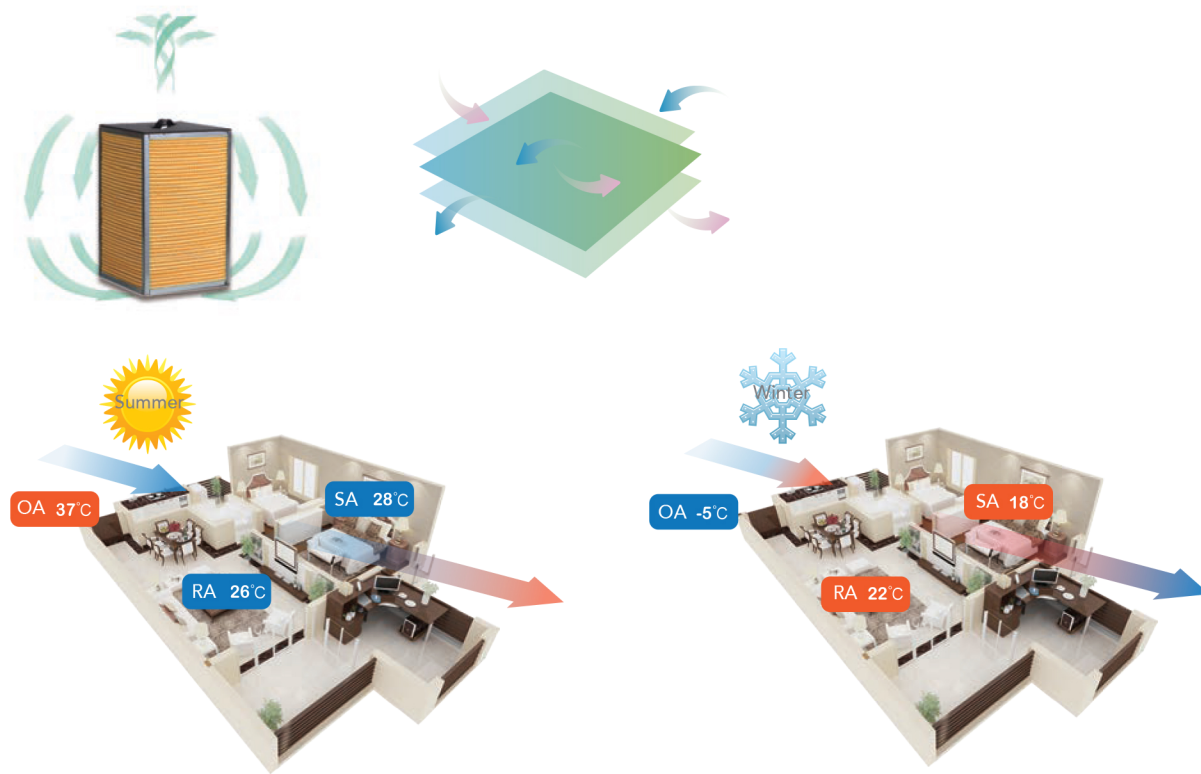
Easy Maintenance

- 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.



Higher Efficiency with 3rd Generation Enthalpy Exchanger

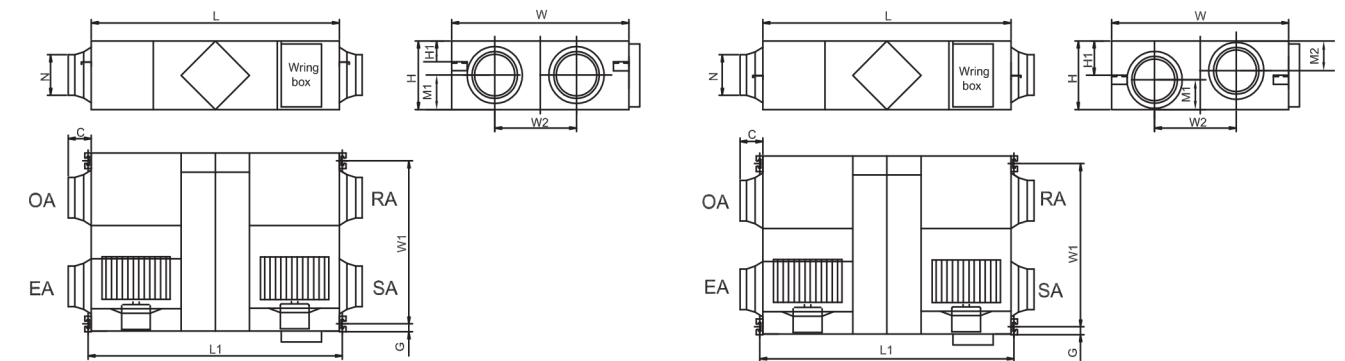
The 3rd generation enthalpy exchanger is made of the latest nanofiber structure to ensure higher efficiency. The heat exchange materials are mildew resistance and fire retardance.



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						
EHRUS-D600-2A2	600	87	59-74	61-78	70-83	39	220-240	162	35	With PM2.5 filters
EHRUS-D800-2A2	800	90	55-66	57-76	68-83	41	220-240	290	54	
EHRUS-D10H-2A2	1000	76	58-70	62-75	70-83	42	220-240	327	62	
EHRUS-D13H-2A2	1300	80	56-68	59-70	70-83	43	220-240	424	72	Without PM2.5 filter
EHRUS-D600-2B2	600	97	59-74	61-78	68-83	39	220-240	162	34	
EHRUS-D800-2B2	800	100	55-66	57-76	68-83	41	220-240	290	53	
EHRUS-D10H-2B2	1000	86	58-70	62-75	70-83	42	220-240	327	61	
EHRUS-D13H-2B2	1300	90	56-68	59-70	70-83	43	220-240	424	71	

Dimensions



EHRUS-D600-2B2-EHRUS-D10H-2B2, EHRUS-D600-2A2-EHRUS-D10H-2A2

EHRUS-D13H-2B2, EHRUS-D13H-2A2

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



Intelligent Controller

Intelligent control	EDK-CK-20		EH-12100		E-10307	
	Black cool intelligent control		Advanced intelligent control			
Type	Black cool intelligent control		Advanced intelligent control			
Suitable series	EHRUS-D600-D13H-2B2 EHRUS-D600-D13H-2A2	EHRUS-D150-D350-2A1 EHRUS-D150-D350-2B1	EHRUS-D600-D13H-2B2 EHRUS-D600-D13H-2A2	EHRUS-D150-D350-2A1 EHRUS-D150-D350-2B1	EHRUS-D600-D13H-2B2 EHRUS-D600-D13H-2A2	EHRUS-D150-D350-2A1 EHRUS-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 is a MOQ for intelligent controller EH-12100 and E-10307.



■ 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.

