

01 Ventilation + Heat Recovery

Multiple purification

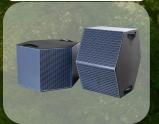
03 Built-in DC inverter heat pump

Smart touch screen control + Wi-Fi App control

05 Indoor air quality control

06 Dehumidification

Counterflow heat exchanger



Brushless EC motor



WiFi control



DC inverter compressor



Primary filter + F8 filter



Intelligent Touch screen panel



Advantages

Main function?

- Supply fresh air
- Remove contaminants, PM2.5/ TVOC/ CO2/ dust etc.
- Remove the excess humidity, keep your indoor air at a confortable temp. & humidity
- Supply heating or cooling to fresh air, save electricity bills for the whole HVAC system
- Can work as air conditioner in Autumn/ Spring or at night, when outdoor is 10-28°C
- 0 emission to climate

Suitable weather condition?

Temperature range between -15°C ~ 50°C

Target client?

Commercial: restaurant, hotel, workshop, offices etc.

Residential: villa, apartments, etc.

Advantages

5 Modes

Ventilation + Cooling + Heating + Auto + Dehumification

Multiple purification

• - G4 primary filter + Activated carbon filter +F8, purification efficiency >95%

Energy saving

• - Equip with EC fans and DC inverter compressor, Joint brand of Midea and Toshiba

Optional electrical heater

Available; reheating the fresh air before it passes through the ERV;

Auto defrosting

When EA temperature is lower than -1°C, at this time, SA fan is stopped, and the EA fan will run at high speed automatically to heat the air, until the EA temperature higher than 15°C.

Technical Parameters

*The parameters are tested accordion to EN308 standards.

Model		AV-HTPF30/EI
Rated airflow	СМН	300
Exhaust Airflow (Ventilation mode)	СМН	300
Exhaust Airflow (Heating/Cooling mode)	CMH	350
External static pressure	Pa	100
Noise	dB(A)	37 / 42
Power		220V 1P 50/60Hz
Dimension	mm (LWH)	760×600×850
Air Inlet/Outlet Diameter	mm	188
Air Inlet/Outlet Height	mm	60
Machine Base Height	mm	61.5
Drainage pipe	Inch	1/2"
Refrigerant		R410A
Operation Temperature	°C	-15~50°C

	Model	AV-HTPF30/EI		
	Temperature Effi. (Heating)	%	76.5	
Ventilation mode	Temperature Effi. (Cooling)	%	72	
	Enthalpy Effi. (Heating)	%	72.6	
	Enthalpy Effi. (Cooling)	%	69.4	
	Input power	W	121	
	Input current	Α	1.23	
	Norminal Cooling Capacity	W	3303	
	Max Cooling Capacity	W	3768	
	Input power (Cooling)	W	832	
Cooling/ Heating	Operation Current (Cooling)	Α	5.71	
	Norminal Heating Capacity	W	3964	
	Max Heating Capacity	W	4768	
	Input power (Heating)	W	723	
	Operation Current (Heating)	Α	5.2	

Ecodesign information according to Commission Regulation(EU) 1254/2014

Model	AC-HTPF30/EI		
Energy class-Averag	А		
Specific energy consumption-Average (KWh/m2.a)	-40.51		
Specific energy consumption-Cold (KWh/m2.a)	-84.34		
Specific energy consumption-Warm (KWh/m2.a)	-15.39		
Maximum internal and external leakage rates(%)	< 5% Internal, <5% External		
Visual filter warming	Timer		
The annual electricity consumption (AEC) (kWh electricity/a)	2.13		
The annual heating saved-Average(KWh primary energy/a)	Wh 45.84		
The annual heating saved-Cold (KWh primary energy/a)	89.68		
Electric power input of the fan drive at maximum flow rate(W)	121 (Ventilation mode)		
The annual heating saved-Cold (KWh primary 20.73 energy/a)			

Reference flow rate(m3/s)	0.08
Reference pressure difference(Pa)	100.00
Specific power input(SPI)(W/(m3/h))	0.40
Control factor	0.65
Type control system	Local demand control
Type of airflow	DF
Type of motor	EC motor
Type of heat recovery system	Recuperative
Thermal efficiency of heat recovery(%)	76.5
Maximum flow rate(m3/h)	300.00
Sound power level dB(A)	37.00

Working principle of HRV

At EN 308 condition

Fresh air DB/WB: 5°C / 3°C Indoor air DB/WB: 25°C / 18°C

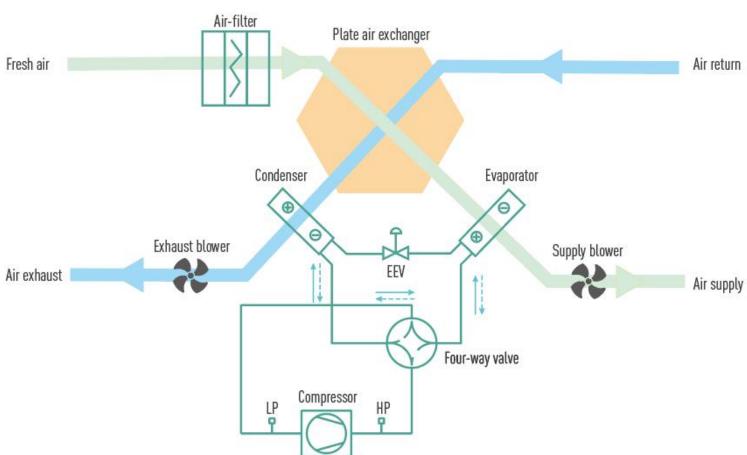
Supply Air: **23°C** when efficiency at 90%

Fresh air from outside Air exhaust to outside Heat Recovery Ventilator (HRV) Stale air from home Warm air supply

Heat Recovery Unit

to home

Working Principle

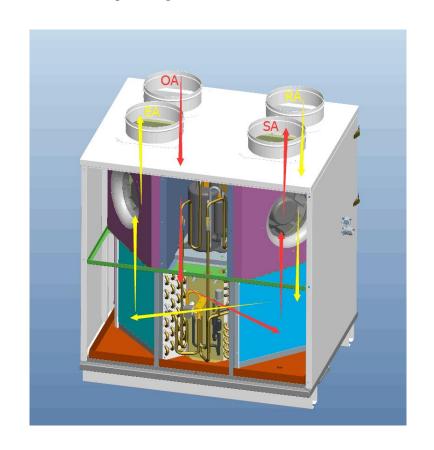


Working principle of ERV with DC inverter heat pump

At EN 308 condition

Fresh air DB/WB: 5°C / 3°C Indoor air DB/WB: 25°C / 18°C

Supply Air: 35°C



Multifunctions

Ventilation and Heat recovery

extract the stale air out; It recovers the heating in winter and recover cooling in summer

Pre-heating/ Pre-cooling

After the first stage heat recovery, the air passes through the condensor for further heating/cooling.

1 Purification

Outdoor fresh air passes through the primary filter and F8 filter at OA side, to arrest the dust/ PM2.5/ other pollutants.

3

4 Dehumidification

The two airstreams run through the heat exchanger and condensor, it can decrease the moisture of fresh air.

Testing Parameters Of Heating

Outdoor Temperature	Supply Air Temperature	Airflow	Heating Capacity	Power	СОР
(DB/WB) °C	(DB/WB) °C	m³/h	W	W	
5/3	35.35/19.69	300	3964	723	5.155
5/3	37.01/20.07	350	4768	971	6.20

Testing conditions of heating:

Indoor temperature (DB/WB): 25°C/18°C, Outdoor temperature (DB/WB): 5°C/3°C (According to EN308 standards)

Testing Parameters Of Cooling

Outdoor Temperature	Supply Air Temperature	Airflow	Cooling Capacity	Power	EER
(DB/WB) °C	(DB/WB) °C	m³/h	w	w	
35/28	23.74/19.71	300	3303	832	3.32
35/28	22.96/19.78	350	3768	871	4.33

Testing conditions of cooling:

Indoor temperature (DB/WB): 27°C/19.5°C, Outdoor temperature (DB/WB): 35°C/28°C

Testing Parameters Of Dehumidification

Outdoor Temperature (DB/WB)°c	Supply Air Temperature (DB/WB)°c	Airflow m³/h	Cooling Capacity w	Power w	Dehumidificat ion capacity L/h
35/28	22.03/18.5	240	2933	766	1.4

Testing conditions of cooling:

Indoor temperature (DB/WB): 27°C/19.5°C, Outdoor temperature (DB/WB): 35°C/28°C

HIGHLIGHT FEATURE

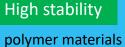
If it needs to be cleaned, you can use tap water to clean it simply.

After drying it, it can be used again (it can be washed several times).











Longer service life
-30° C~60° C



Anti-mold and Anti-bacterial



High air tightness

Air tightness 98%



Washable

washed by clean water



Functions of touch screen panel



- ① Cooling mode
- 2 Ventilation mode
- ③ Filter alarm
- 4 Heating mode
- 5 SA setting
- 6 Dehumidification mode
- 7 Temperature type
- 8 Fan speed
- 9 Weekly timer on/off
- ① Temperature display
- 11 Week day
- ① Clock
- ① ON/OFF button
- 14 Mode button
- 15 Up/Down button
- 16 Set button

2. WIFI CONTROL

✓ Monitoring Indoor Air Quality

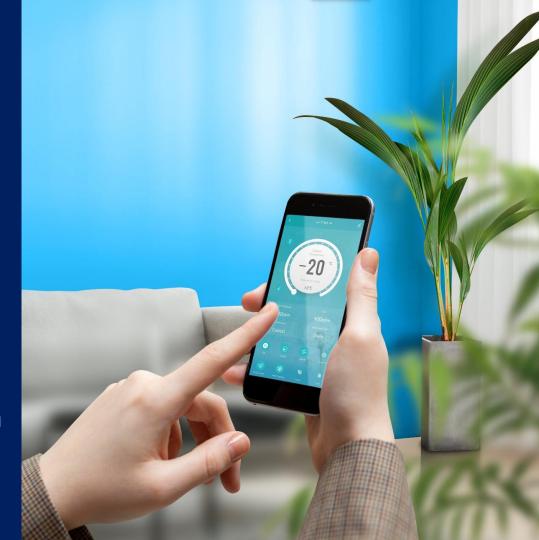
Monitor local weather, temperature, humidity, CO2
concentration, VOC at your hand for healthy living

✓ Group Control

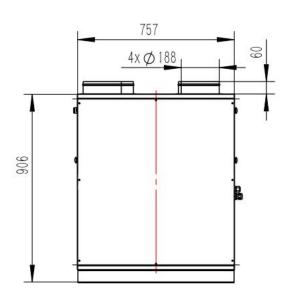
One APP can control multiple units

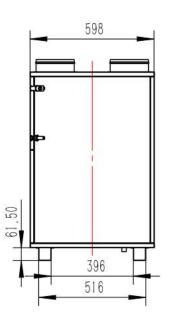
✓ Different Language available

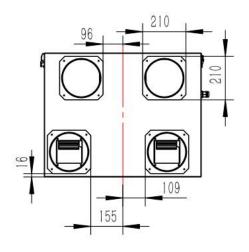
Different language English/French/Italian/Spanish and so on to meet your requirement.



Dimensions

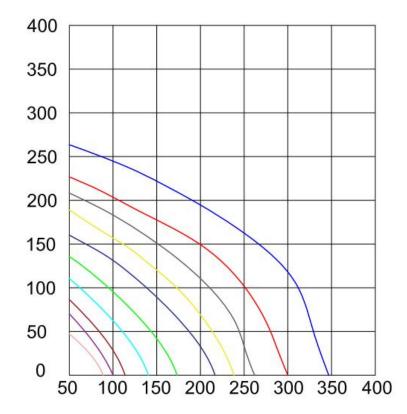






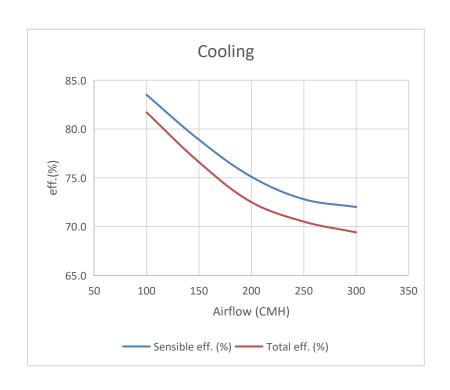
Performance Chart

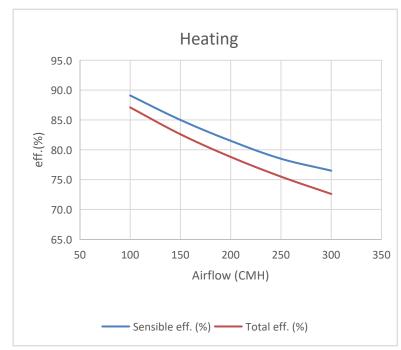




Airtlow(cmh)

Performance Chart





THANK YOU

THANKS FOR WATCHING THIS PRESENTATION