



FLIXX

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DC Invert

Fresh Air Heat Pump ERV



EC fan

Multiple Filters

Bypass

Cross-Counterflow
Enthalpy Heat Exchanger

DC Inverter Compressor



FEATURES



Double energy recovery, **COP over 6***.



Fresh air preconditioning, save your electricity bill on heating system and AC system greatly.



Work as an independent air conditioner in suitable seasons and places.



Low noise level



Equipped with EC fans & DC inverter compressor to minimize energy consumption.



Wide working ambient conditions from -15°C ~ 50°C .



Indoor air quality monitoring like CO_2 , humidity, TVOC and $\text{PM}_{2.5}$.



** The lab condition is: indoor: $21^{\circ}\text{C}/13^{\circ}\text{C}$, outdoor: $-7^{\circ}\text{C}/-9^{\circ}\text{C}$.*

EC Fan

To save energy and meet the ERP2018 standard, it's built with the forward EC motors with 0-10 Voltage control. It has 10 speeds and is featured by small vibration, low noise, energy-saving, and longer service life.



Bypass

In summer, the 100% bypass contributes to improved comfort and it is controlled automatically on the basis of the measured outdoor temperatures.

Multiple Filters

The standard filters are G4 and F8 grade filters. The primary filter can remove dust, pollen and other pollutants from the incoming fresh air. They also protect the heat exchanger from clogging or corrosion. And the F8 filter can further purify the air. The PM2.5 particle filtration efficiency is over 95%. An optional air disinfection filter is available for higher filtration efficiency.

DC Inverter Compressor

It comes from the well-known brand GMCC. It compresses and expands refrigerant to transfer heat between the outdoor and indoor air streams. It is DC inverter type which can adjust its speed and output according to the load demand, ensuring energy saving performance and low noise level. It can also operate in a wide temperature range of -15°C to 50°C. Both R32 and R410a refrigerant available.

Advantages	DC Inverter Compressor	Fix-frequency Compressor
High efficiency	√	X
Quiet operation	√	X
Longer lifespan	√	X
Smooth start-stop	√	X
Accurate and fast temperature control	√	X
Energy saving	√	X
Operation temperature	-15°C to 50°C	-7°C to 40°C

CROSS-COUNTERFLOW ENTHALPY HEAT EXCHANGER

The cross-counterflow enthalpy heat exchanger can transfer heat and moisture between the outdoor and indoor air streams without mixing them.

It can recover up to 80% of the energy from the exhaust air, reducing the heating or cooling load on the compressor. It is washable and easy to maintain. It has a lifetime of up to 15 years.



Anti-mold &
Anti-bacteria



High Strength
& Stability



Special
Polymer
Membrane



Washable



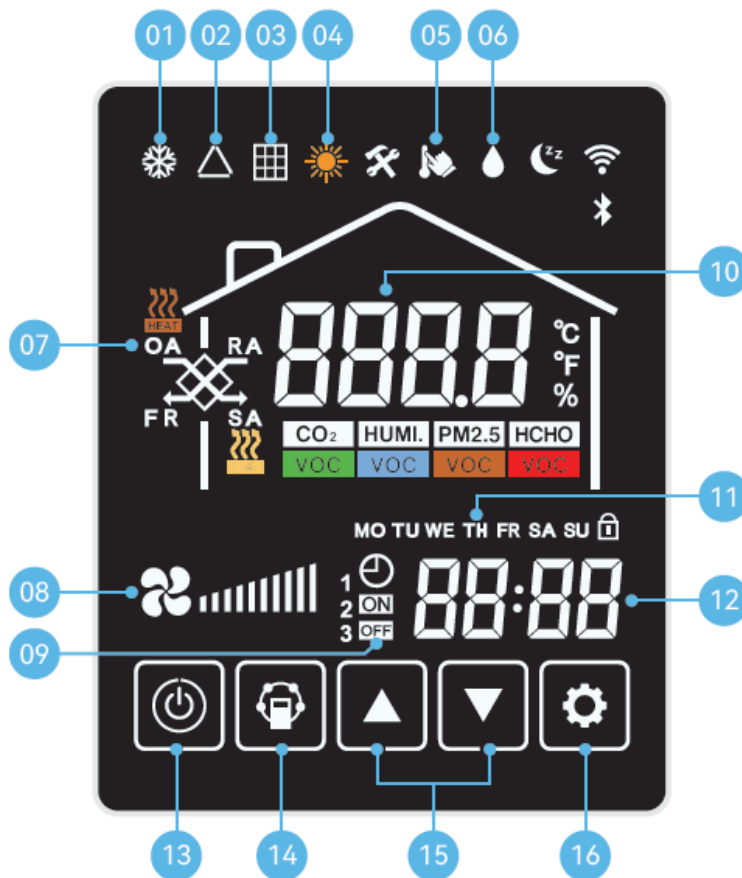
Long Service
Life



FLIXX



CONTROL & FUNCTIONS



01. Cooling mode

02. Ventilation mode

03. Filter alarm

04. Heating mode

05. SA setting

06. Dehumidification mode

07. Temperature type

08. Fan speed

09. Weekly timer on/off

10. Temperature display

11. Week day

12. Clock

13. ON/OFF button

14. Mode button

15. Up/Down button

16. Set button

WIFI FUNCTIONS

Wifi function is available to control and monitor the ventilation system from anywhere in the world using a smart phone. User can monitor the indoor air quality at your hand for healthy living.

Monitoring Indoor Air Quality

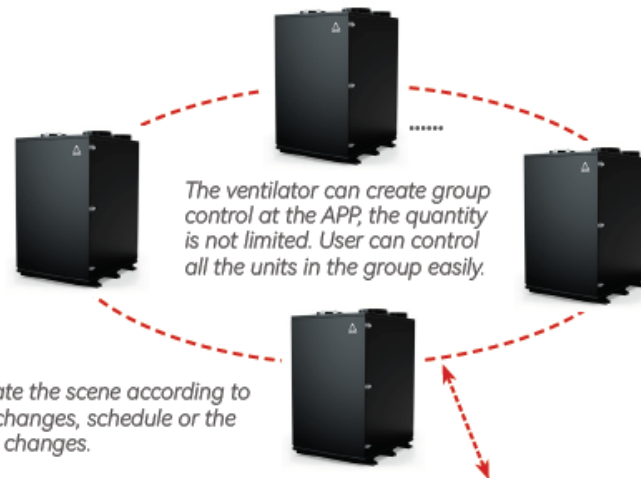
Monitor local weather, temperature, humidity, CO₂ concentration at your hand for healthy living.

Variable Setting

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

Group Control

- Smart control according to local weather.
- One APP can control multiple units.
- Linkage control with other appliances with Tuya IoT.



 **85%** → Stop Running

For example, when the weather shows the outdoor relative humidity is higher than 85%, user can set the ventilator to stop running, to prevent the outdoor humidity coming inside. The unit will run according to the setting automatically.



Users can add the devices with Tuya APP to their home screen. For example, they can add all the single room ventilators, exhaust fans or light switches in the APP and control them at their will.



Model		AV-HTPF35	AV-HTPF60	AV-HTPF90
Rated airflow	CMH	350	620	950
Exhaust Airflow (Ventilation mode)	CMH	350	620	950
Exhaust Airflow (Heating/Cooling mode)	CMH	350	620	950
External static pressure	Pa	100	100	100
Ventilation mode	Temperature Efficiency (Heating)	%	77	77
	Temperature Efficiency (Cooling)	%	72	73
	Enthalpy Efficiency (Heating)	%	76	70
	Enthalpy Efficiency (Cooling)	%	70	66
	Input power	W	185	788
	Input current	A	1.67	3.93
Cooling/Heating	Norminal Cooling Capacity	W	3798	8293
	Max Cooling Capacity	W	4173	8801
	Input power (Cooling)	W	847	1487
	Operation Current (Cooling)	A	4.43	6.95
	Norminal Heating Capacity	W	4631	8870
	Max Heating Capacity	W	4981	9110
	Input power (Heating)	W	790	1427
	Operation Current (Heating)	A	3.91	6.76
Noise	dB(A)	37 / 42	40/44.6	41/46
Power		220V 1Ph 50/60Hz		
Dimension (W*L*H)	mm	600*760*1040	740*1050*1030	740*1090*1170
Weight	Kg	135	165	190
Air Inlet/Outlet Diameter	mm	195	245	245
Air Inlet/Outlet Height	mm	40		
Machine Base Height	mm	40		
Drainage pipe		G1/2 21mm		
Refrigerant		R32		
Refrigerant charge	g	370	500	660

Advantages Compared with Standard ERV

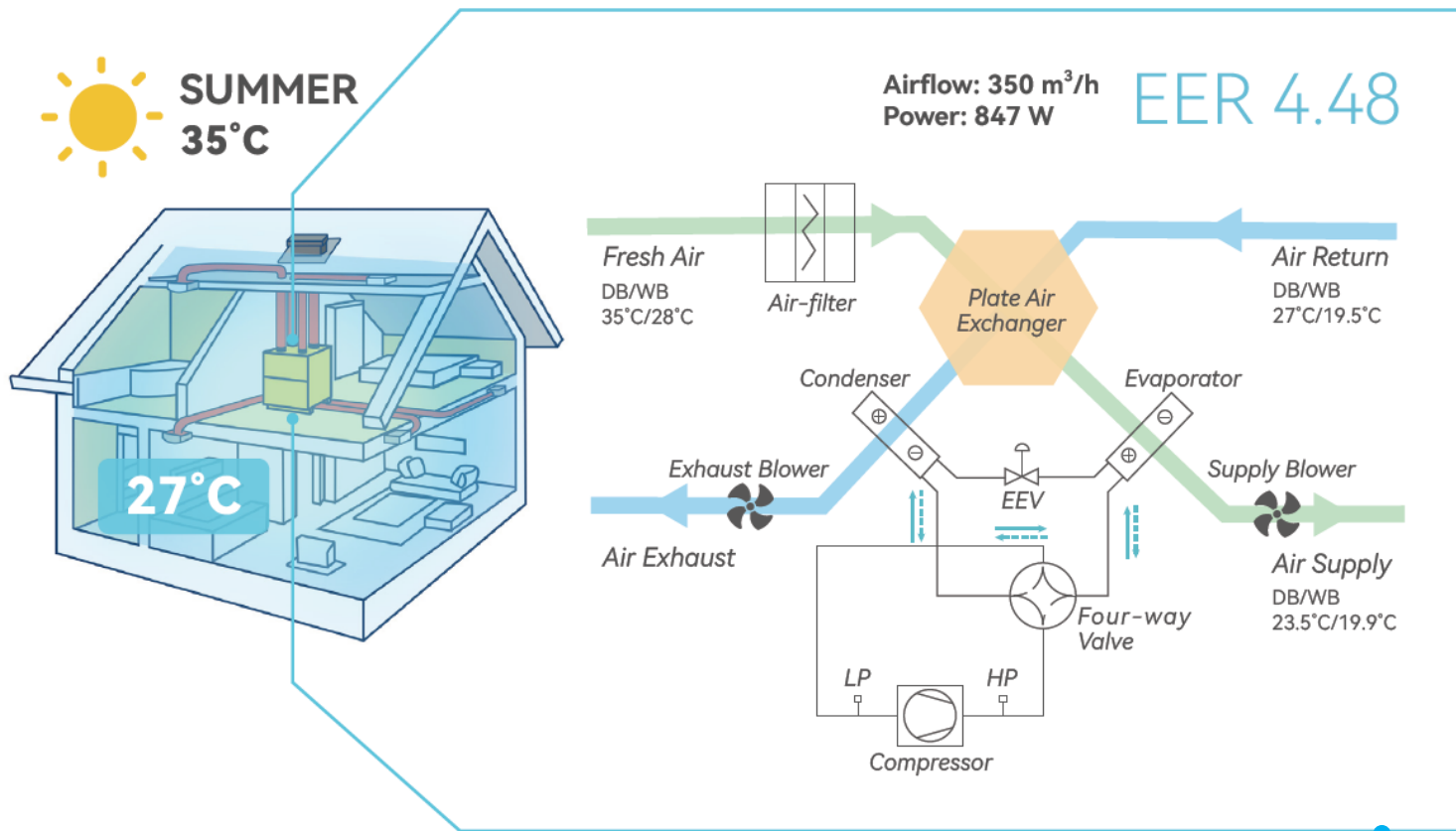
Sample: AV-HTPF35/E132

SUMMER CONDITIONS			
No	Description	Temperature	Relative Humidity
1	Outside Temperature OA	35°C	59.10%
2	Inside Temperature RA	27°C	49.80%
3	Fresh Air (Standard Heat Recovery Units) SA	29.24°C	55.48%
4	Fresh Air (Heat Pump Heat Recovery Units) SA	23.5°C	72.11%

WINTER CONDITIONS			
No	Description	Temperature	Relative Humidity
1	Outside Temperature OA	2°C	83.84%
2	Inside Temperature RA	21°C	39.16%
3	Fresh Air (Standard Heat Recovery Units) SA	15.68°C	73.57%
4	Fresh Air (Heat Pump Heat Recovery Units) SA	35.56°C	17.87%

WORKING PRINCIPLE

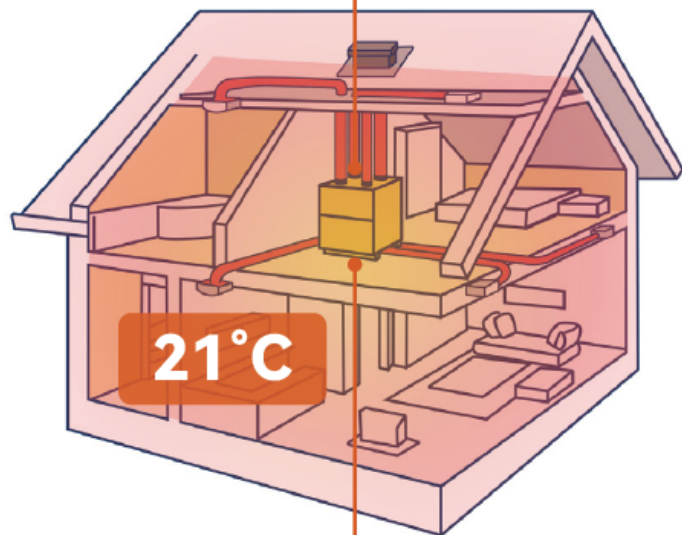
AV-HTPF35/E132



AV-HTPF35/E132



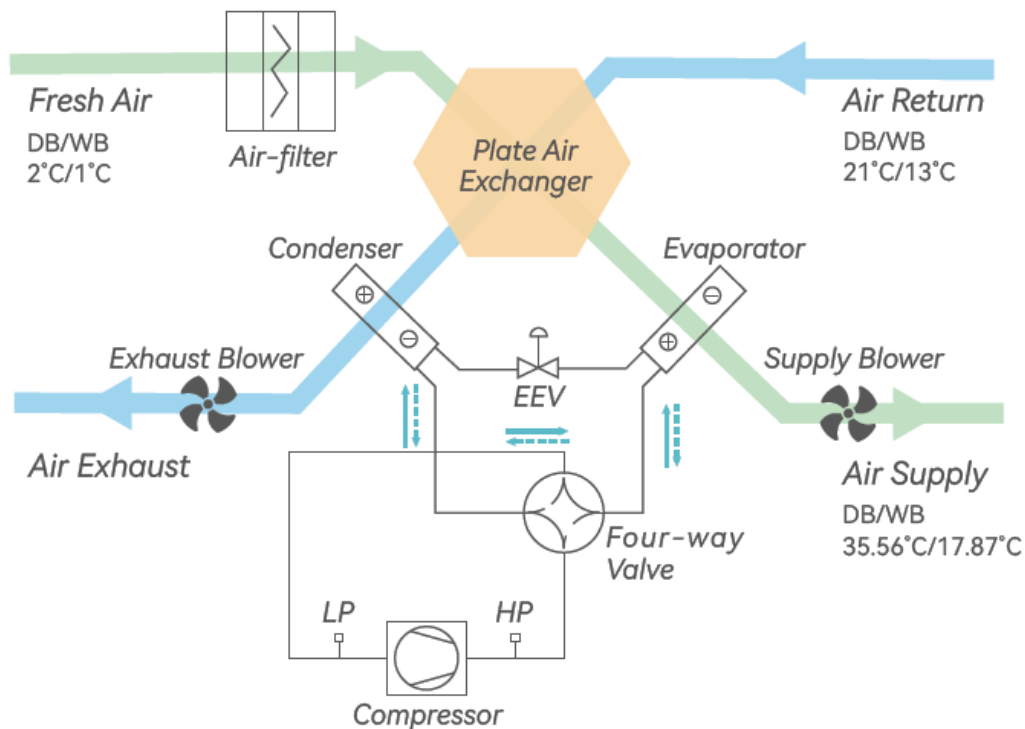
WINTER
2°C



21°C

Airflow: 350 m³/h
Power: 790 W

COP 5.83



AV-HTPF35/E132

Winter		OUTDOOR TEMP.	INDOOR TEMPT.	SA TEMP.	AIRFLOW	HEATING CAPACITY	INPUT POWER	COP
		(DB/WB) °C		(DB/WB) °C	CMH	W	W	
RATED	R32	2/1°C	21/13°C	35.56/17.87	350	4631	790	5.86
MAX				38.32/18.88		4981	983	5.07
Summer		OUTDOOR TEMP.	INDOOR TEMPT.	SA TEMP.	AIRFLOW	COOLING CAPACITY	INPUT POWER	EER
		(DB/WB) °C		(DB/WB) °C	CMH	W	W	
RATED	R32	35/28	27/19.5	22.69/19.58	350	3798	847	4.48
MAX				20.87/18.95		4173	1033	4.04

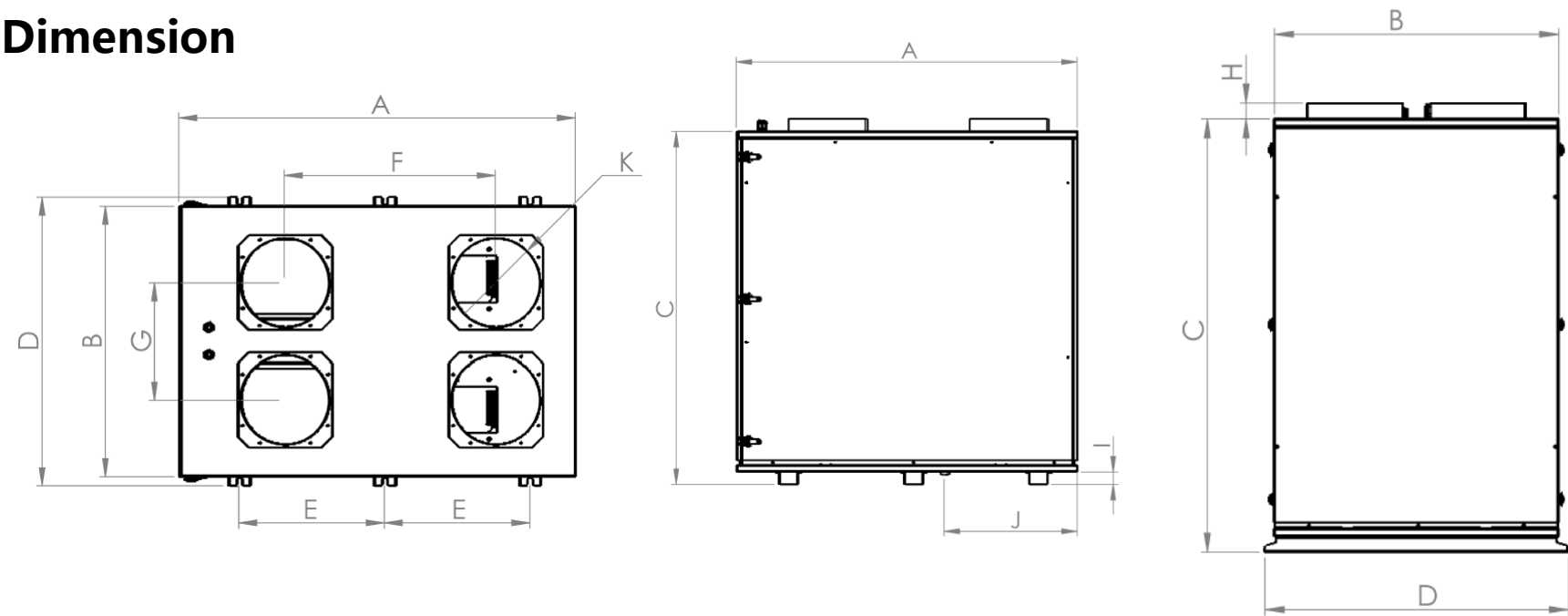
AV-HTPF60/E132

Winter		OUTDOOR TEMP.	INDOOR TEMPT.	SA TEMP.	AIRFLOW	HEATING CAPACITY	INPUT POWER	COP
		(DB/WB) °C		(DB/WB) °C	CMH	W	W	
RATE D	R32	2/1°C	21/13°C	29.39/14.8	620	6287	1033	6.09
MAX				32.45/15.88		6921	1297	5.34
Summer		OUTDOOR TEMP.	INDOOR TEMPT.	SA TEMP.	AIRFLOW	COOLING CAPACITY	INPUT POWER	EER
		(DB/WB) °C		(DB/WB) °C	CMH	W	W	
RATE D	R32	35/28	27/19.5	23.1/20.33	620	6394	1243	5.14
MAX				22.5/19.62		6946	1646	4.22

AV-HTPF90/E132

Winter		OUTDOOR TEMP.	INDOOR TEMPT.	SA TEMP.	AIRFLO W	HEATING CAPACITY	INPUT POWER	COP
		(DB/WB) °C		(DB/WB) °C	CMH	W	W	
RATED	R32	2/1°C	21/13°C	26.03/13.99	950	8870	1427	6.22
MAX				27.5/14.2		9110	1542	5.91
Summer		OUTDOOR TEMP.	INDOOR TEMPT.	SA TEMP.	AIRFLO W	COOLING CAPACITY	INPUT POWER	EER
		(DB/WB) °C		(DB/WB) °C	CMH	W	W	
RATED	R32	35/28	27/19.5	23.1/20.33	950	8293	1487	5.58
MAX				22.5/19.62		8810	1651	5.34

Dimension



Model	A	B	C	D	E	F	G	H	I	J	K
AC-HTPF35	760	600	1010	650	280	335	370	40	40	305	φ 195
AC-HTPF60	1050	740	990	790	400	540	320	40	40	415	φ 245
AV-HTPF90	1090	740	1130	790	400	580	320	40	40	425	φ 245

THANK YOU

