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Fresh Air

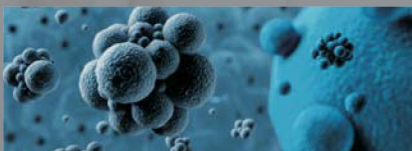
# Invisible Health Threats Around You



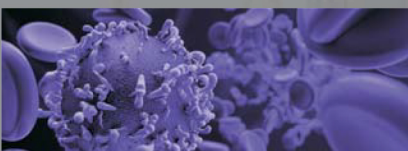
CO<sub>2</sub>: cause dizziness, chest distress, sleepiness.



Bacteria, virus: cause flu.



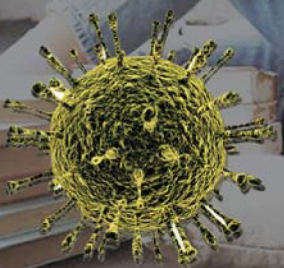
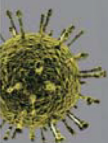
Formaldehyde, TVOC: cause headache leukemia.



Pollen, pet hair: cause allergic rhinitis, skin allergy.

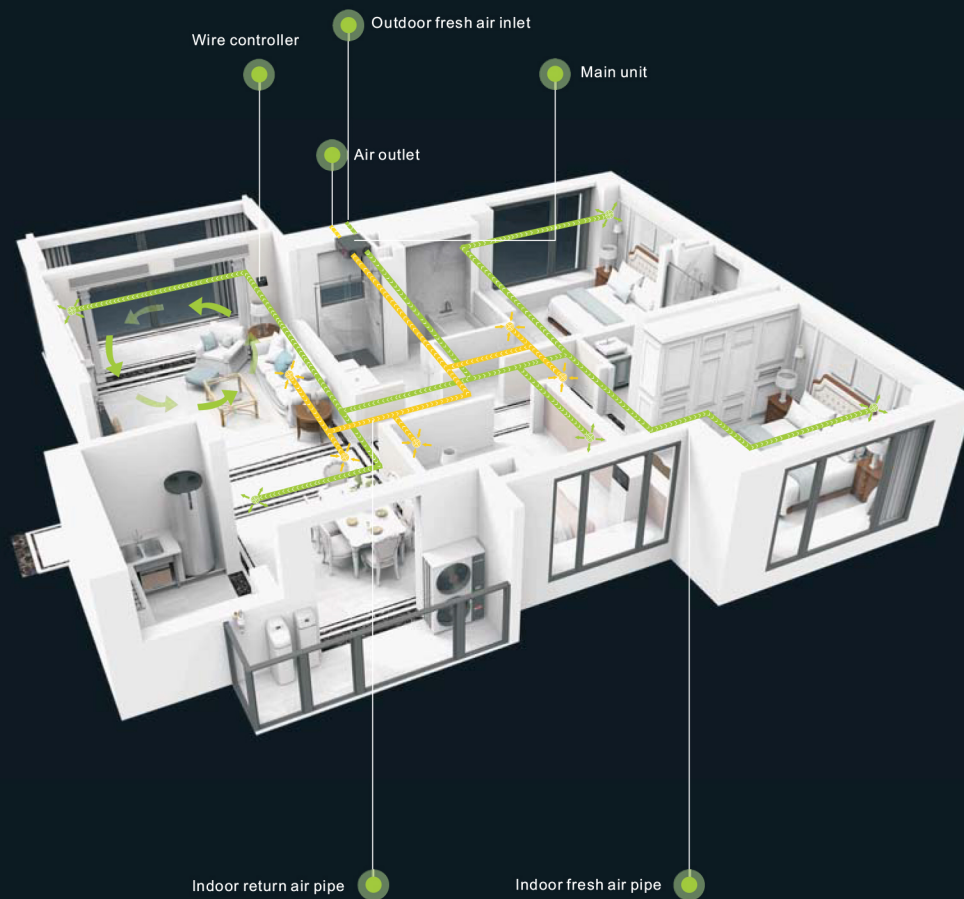


Passive smoking: cause child asthma, disease.



## THE SOLUTION

Air pipes are connected at the air inlet port of the main unit. Purified fresh air goes through the pipes and the branches in the ceiling to each room. At the same time, dirty air in each room is discharged from the return air pipe to outdoor after energy transferring with the fresh air through heat exchanger.



## 24hrs Fresh Air Around the Whole House

-  Central Fresh Air
-  EPP Cabinet
-  Graphene Heat Exchanger
-  SmartApp Control
-  High Purification
-  EC Motor
-  DIY Easy Installation
-  Silent Running



## 2 Installation Methods for Choice

**Ceiling Installation**  
Adapt to Different Home Layout






**Wall-Mounted Installation**  
Easy Installation and Maintenance



## Total EPP Cabinet

The Highlight of Fresh Air ERV

## Advantage

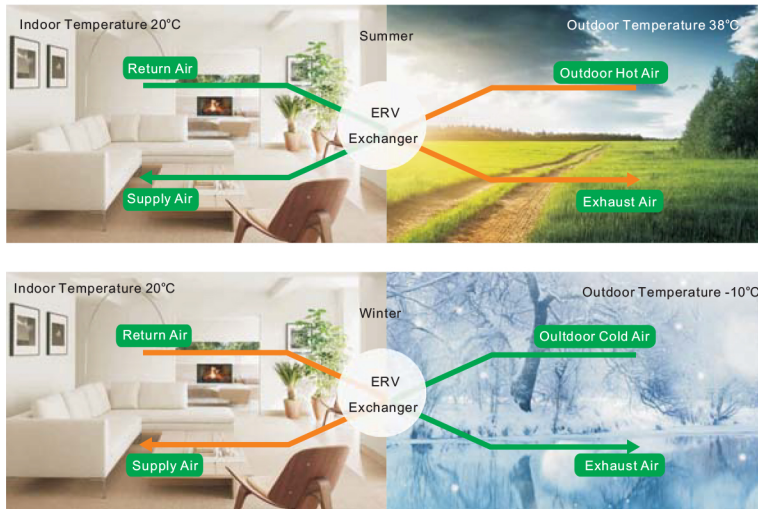
-  Degradable and Eco-friendly
-  50% Low Weight than Steel
-  Reduce Vibration and Noise
-  No Deformation (Running at -40°C-130°C)
-  Water Proof



# Graphene ERV Exchanger

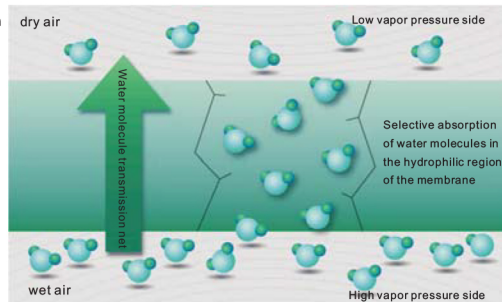
## Principle

The ERV exchanger adopts non-polluting energy recovery technology to realize the energy transferring between fresh air and discharge air. Thus, it reduces the indoor temperature loss caused by ventilation.



## Principle of Graphene



Graphene modified antibacterial membrane is a functional polymer membrane based on graphene modification. It is made of graphene and other materials with special properties to make polymer composite materials that meet the needs. The penetration of the polymer forms the force between the molecules, causing them to form van der Waals forces and hydrogen bonds with other mixtures. The material is 100% solid, non-volatile, non-toxic and harmless, and can be in direct contact with the skin.



## FUNCTION

-  High Efficiency of Heat Exchanging
-  Automatic Cleaning
-  Bacteria Resistant
-  Long Operating Life
-  Humidity Adjusting

## Heat Exchanger Comparison

	Material	Cost	Heat Recovery Efficiency	Maintenance	Life
	Paper	Low	50%-70%	Need washing after 1 year and replacing after 2 years	2 years
	Graphene	High	70%-80%	Automatic Cleaning	10+ years

# THE HIGH PURIFICATION

**Primary Aluminium Alloy Filter**

Filter insects, sand, etc.;  
Washable;

**Medium F7 Filter**

Filter dust, particles as small as 1-5um;  
Thicker filter net, longer life;

**H12 High Efficiency Filter**

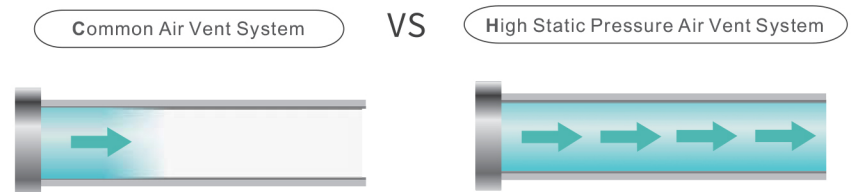
Filter particles as small as PM0.3 or bigger;  
Filter 99.9% PM2.5.

# EC DC MOTOR

- Bigger overload, startup and braking torque
- Wider speed regulation range  
Easier stepless regulation
- Easy control and higher reliability
- Less energy loss at speed regulation

## High Static Pressure

Ensure Sending Fresh Air to Every Corner of the Room





## Porous Silencing Make a Quiet Home

The technology adopts silencer of structure with 1mm holes and dissipative muffling method. It greatly lowers down the noise as follows:

Reduce 8-10dB at High Frequency

Reduce 4-6dB at Low Frequency

## TECHNICAL PARAMETERS



**Anti-freezing:**  
Start ventilation according to outdoor temperature.



**Smart mode:**  
Automatically adjust working mode according to indoor air quality.



**Outside bypass mode:**  
Free cool air.



**Sleep mode:**  
Enter low speed running according to timer setting.



**Fresh air mode:**  
Manual adjusting the wind ventilation.



**Filter Reminder:**  
Remind you when you need to replace the filter.

Model		PDJX-250-EC	PDJX-350-EC
Rated power	W	122.0	163.0
Power supply	V/Ph/Hz	220/1/50	220/1/50
Air outlet pressure	Pa	100	100
Air volume	m <sup>3</sup> /h	250	350
Filter	\	Primary/Medium/High Efficiency HEPA	Primary/Medium/High Efficiency HEPA
Sensor type	\	PM2.5\CO2\TVOC\Temperature\Humidity	PM2.5\CO2\TVOC\Temperature\Humidity
EVI exchanging efficiency	\	88%	85.8%
Heat exchanger	\	Graphene Total Heat Exchanger	Graphene Total Heat Exchanger
Pipe size(indoor air)	mm	φ160	φ160
Pipe size(fresh air)	mm	φ160	φ160
Noise	dB(A)	25-38	28-40
Installation	\	Wall-mounted/Ceiling	
Working range	°C	-20--43	-20-43
Unit dimension(L/W/H)	mm	1232× 830×270	1232× 830×270
Net weight	kg	27	27
Gross weight	kg	30	30

Model		PXF-A	PXF-B
Filter	/	High Efficiency HEPA	High Efficiency HEPA
Pipe size(indoor air)	mm	6-φ75/3-φ110	φ160
Pipe size(fresh air)	mm	φ160	φ160
Installation	/	Wall-mounted/Ceiling	
Working range	°C	-20~60	-20~60
Unit dimension(L/W/H)	mm	874x682x270	830x655x270
Net weight	kg	10	10
Gross weight	kg	12	12

Testing condition of heat exchanging: outdoor fresh air: 35°C/28°C(DB/WB); indoor return air: 27°C/21.2°C(DB/WB).

The data above is only for reference. For model specifications, please refer to the nameplate on the unit.