

FROM THE TEAM WHO CREATED AIREGARD

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**VENTILATION**

Clean Air System



# THE #1

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TRUSTED VENTILATOR  
BRAND IN MALAYSIA

**AireGard®**  
Life. Refreshed.

With the same vision and  
commitment, we bring forth a  
new challenge with our expertise  
in the business of indoor  
ventilation but with Style,  
Character, and Value.



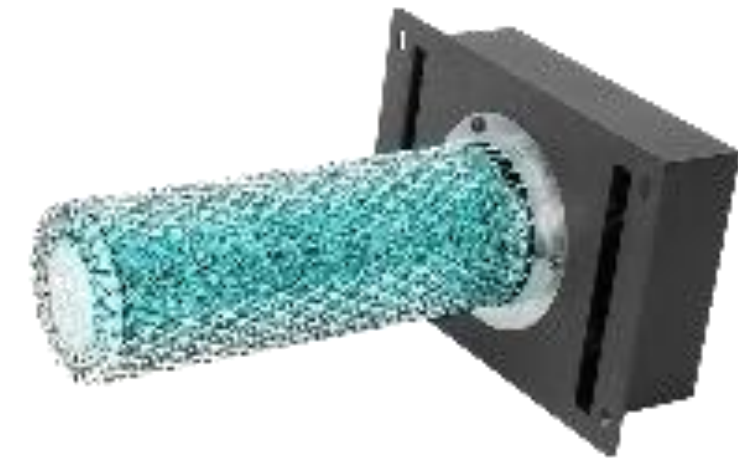
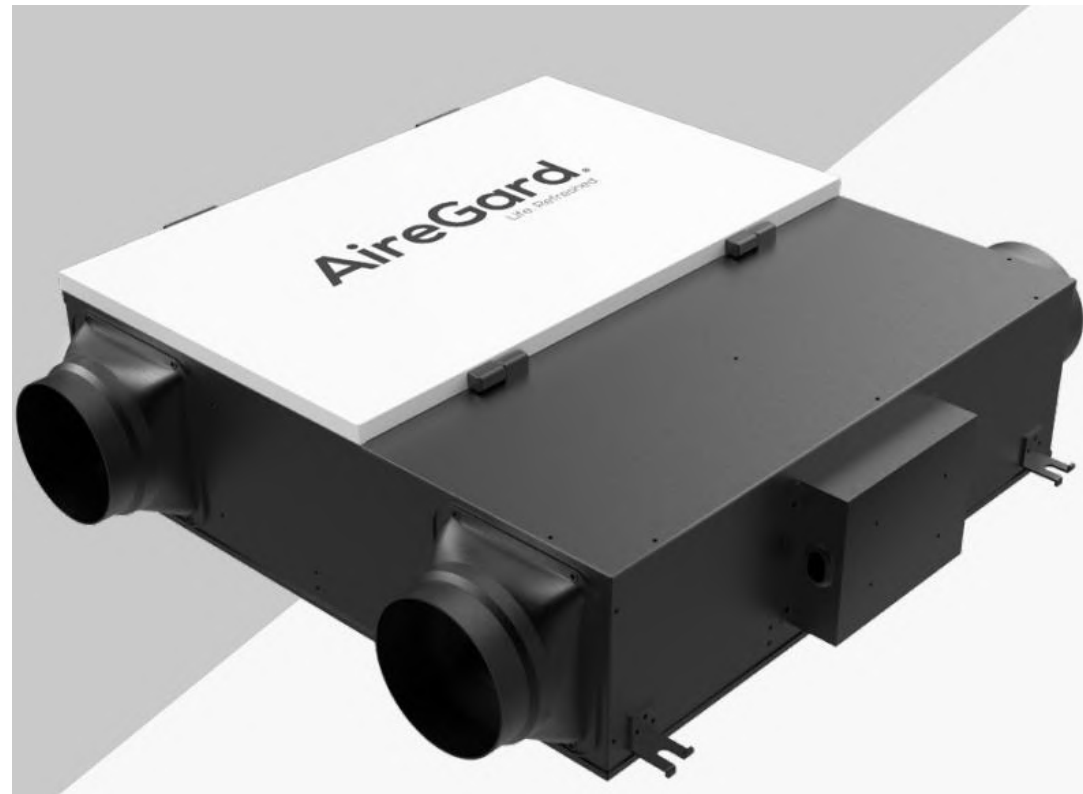
## **ROADMAP TO IMPROVE & ENSURE GOOD INDOOR VENTILATION IN THE CONTEXT OF COVID-19**

- 1) INCREASE NATURAL VENTILATION**
- 2) INCREASE FRESH AIR VENTILATION RATE**
- 3) IMPLEMENT AIR CLEANING SYSTEM**

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ANNEX 3 – VENTILATION GUIDE,  
WORLD HEALTH ORGANIZATION.

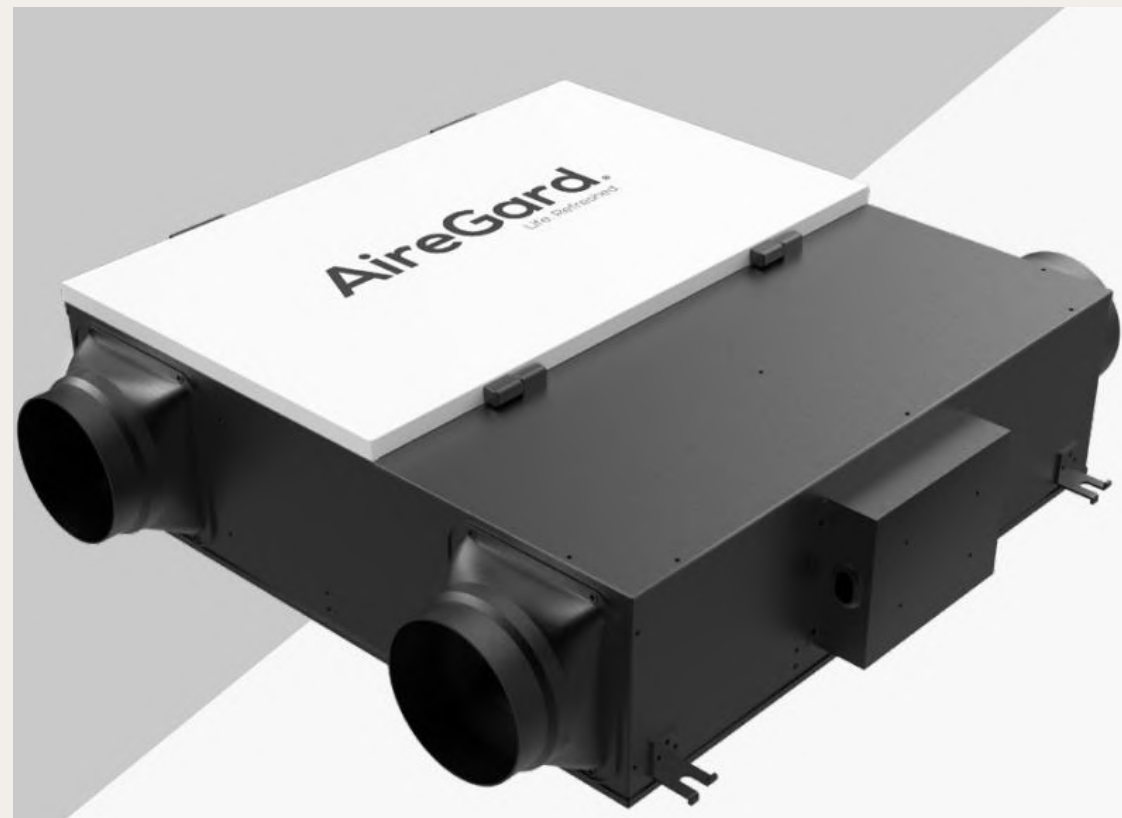




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# AIREGARD VENTILATION

INTRODUCING 3 DIFFERENT CLEAN AIR SYSTEMS TO IMPROVE IAQ  
DURING PANDEMIC

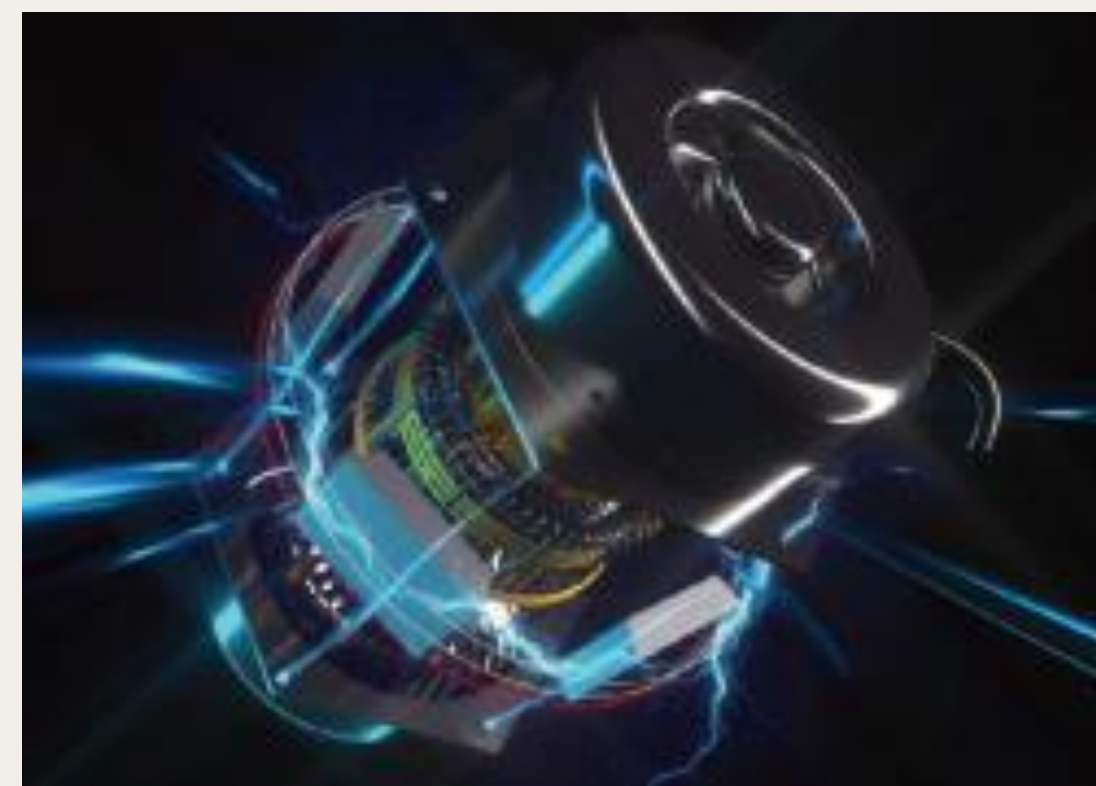
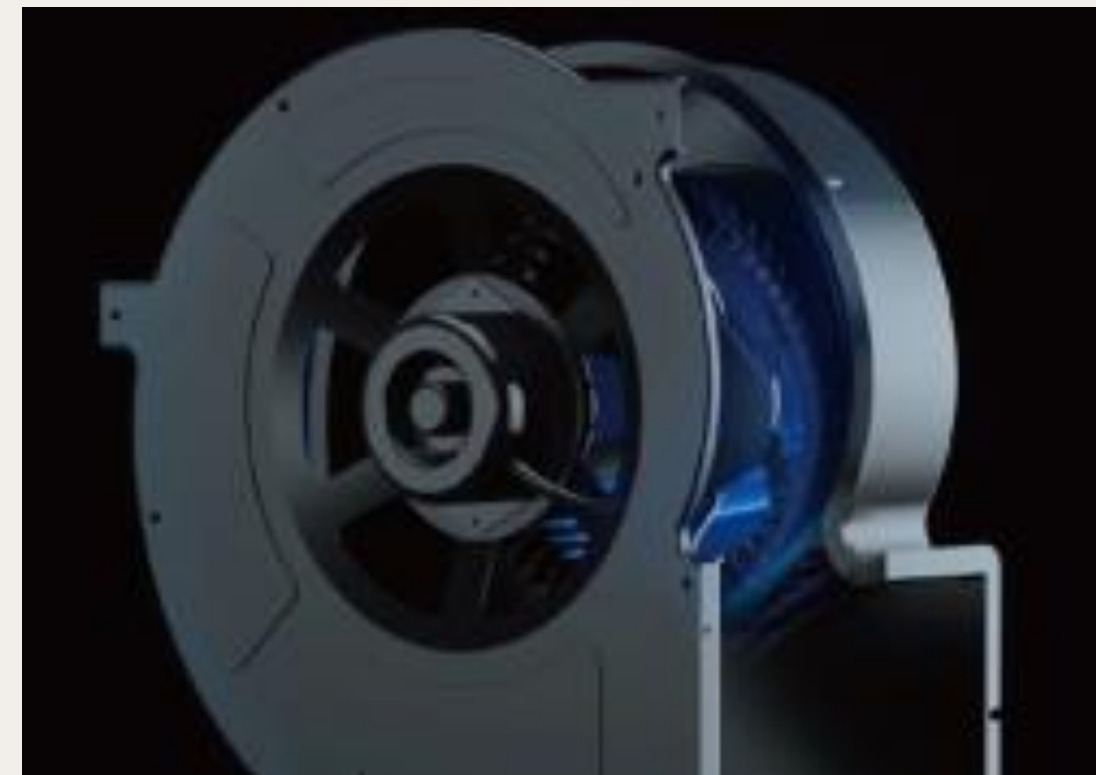


# Energy Recovery Ventilator (ERV)

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## ERV-HF Series

Latest slim design ERV system equipped with HEPA12 for maximum filtration



# Features of ERV-HF Series

## SLIM DESIGN

Low body height for easy fitment in almost any ceiling space.

## HEAT EXCHANGER CORE

### EFFICIENCY UP TO 90%

Recovers more energy compared to conventional ERVs.

## HEPA 12

High efficiency filtration media removes up to 99% 0.3micron particulate matter.

## IOT ENABLED CONTROLLER

Use WIFI to connect to controller

## QUIET OPERATION

High performance motor ensures low electrical consumptions and whisper quiet operation.

## 3-YEAR WARRANTY

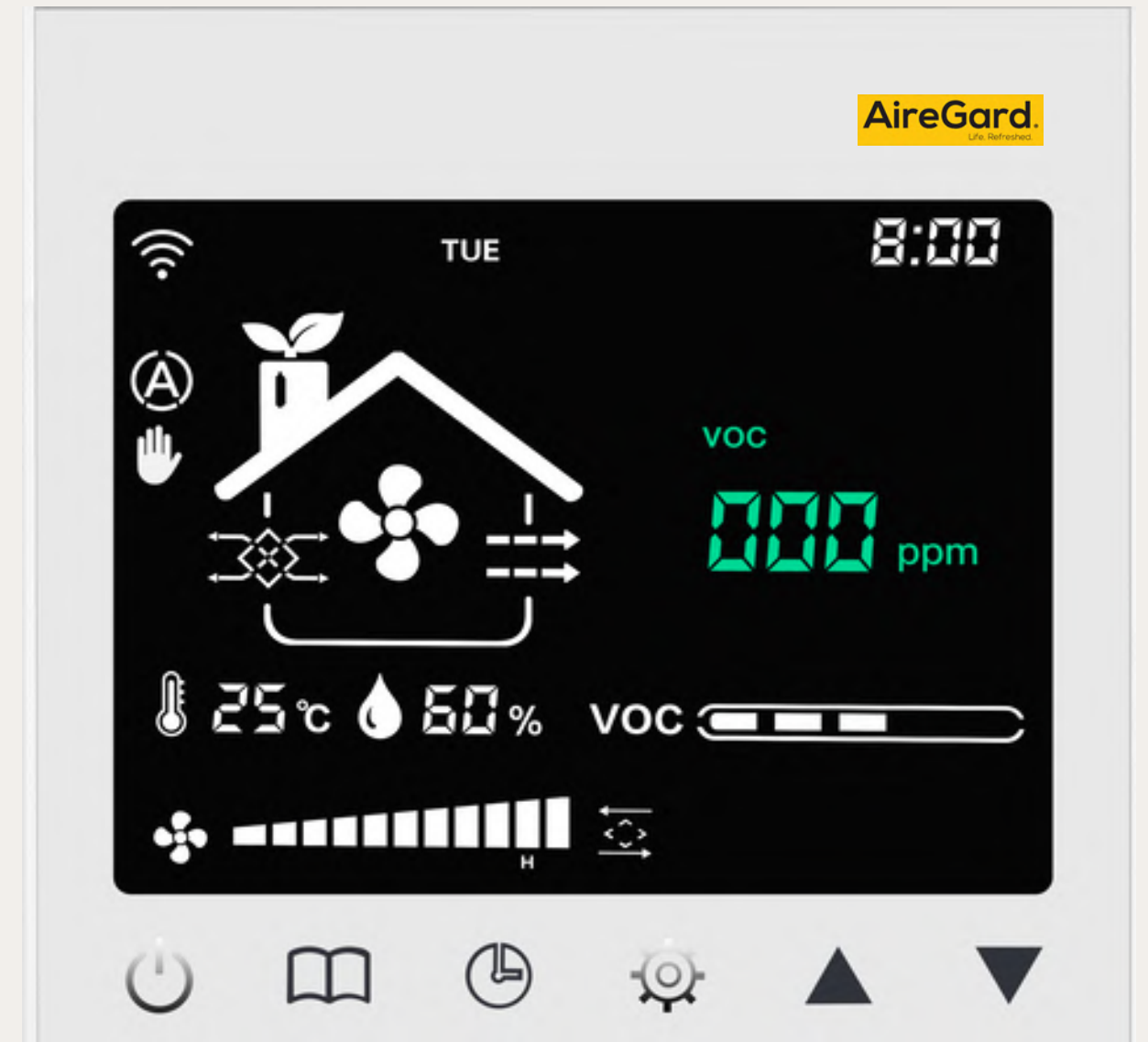
Refer to our warranty terms and conditions for more information.

# TAKE COMPLETE CONTROL

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## G5 Controller

Control your ERV from your smartphone



# Features of G5 Controller

## 4 ZONE CLIMATE CONTROL

Set your 7 days desired set point in 4 different time zones.

## CHOOSE YOUR DESIRED SPEED

Low – Med – High speed operation.

## SERVICE REMINDER

Automatic filter change reminder

## TRACKS CHANGING AIR QUALITY

Real time information display on PM levels, temperature and humidity level.

## TVOC

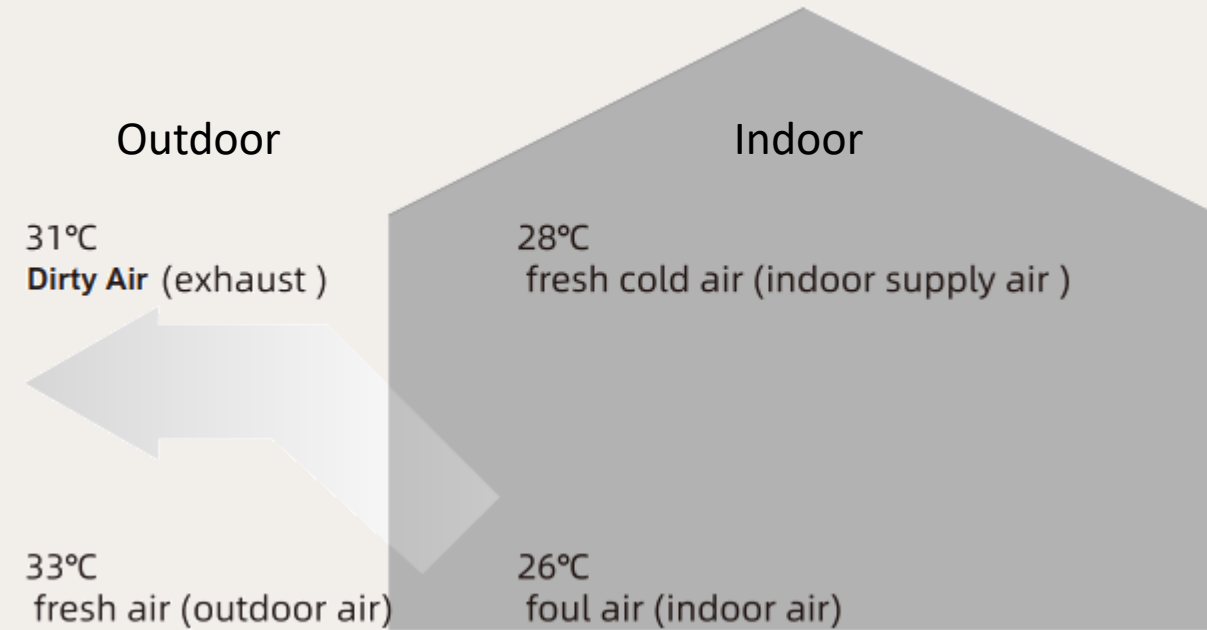
Displays real time TVOC level.

## AUTO-PILOT

Automatically adjusts for changing air quality based on your ventilation needs.

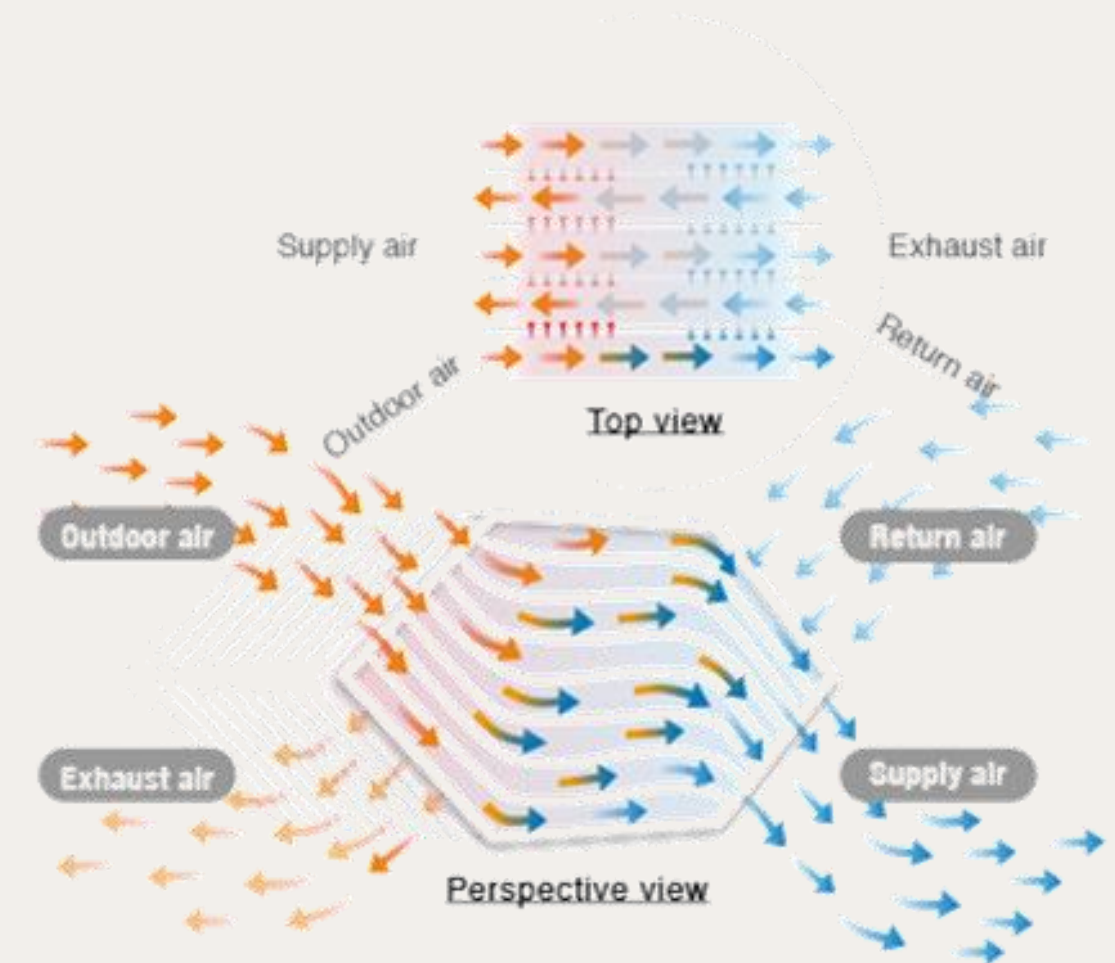
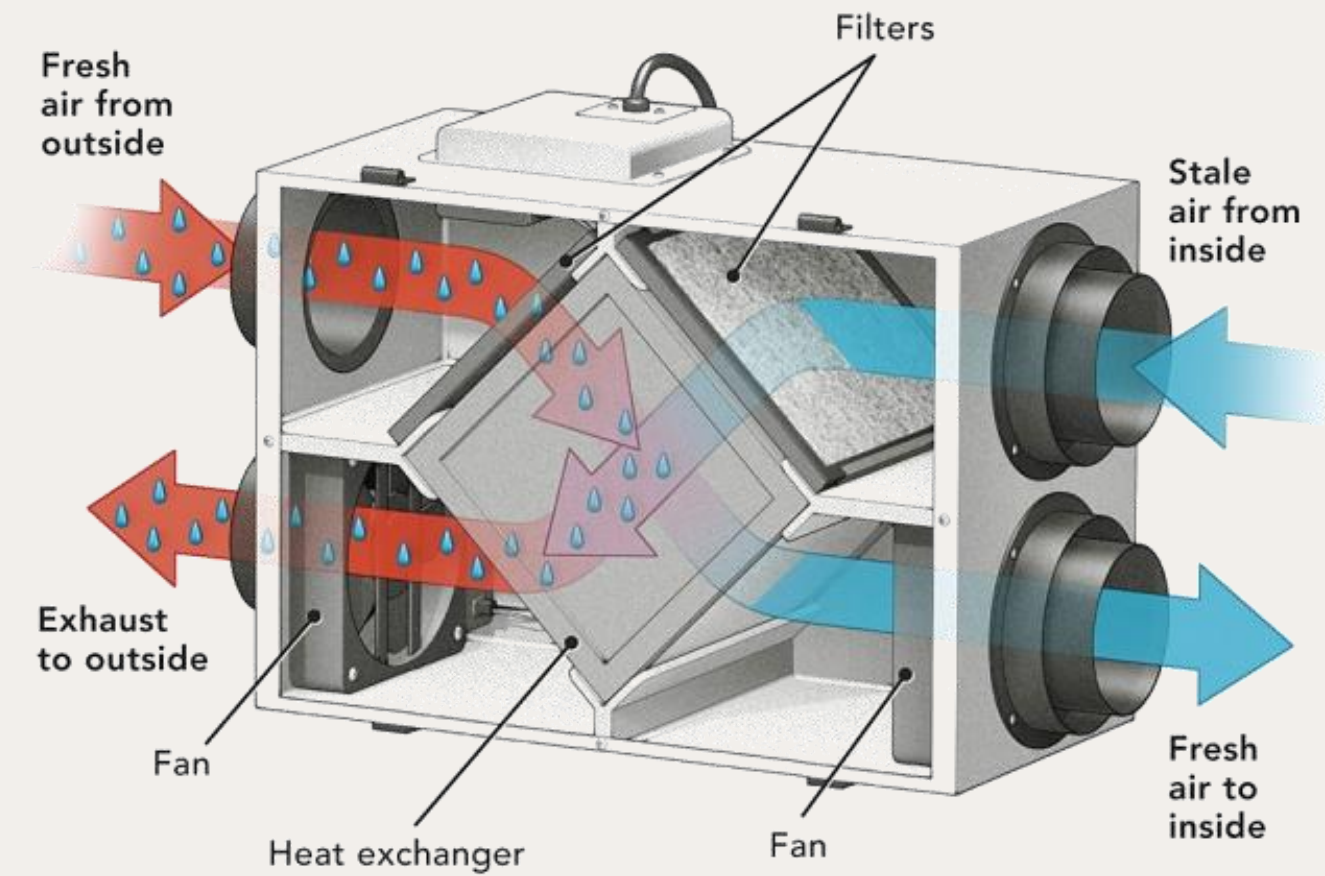


# CONCEPT OF ERV



## ERV-HF Series

Enthalpy efficiency up to 90%



# HEPA FILTRATION



Ambient reading



Filtered air with HEPA12 & UVC reading

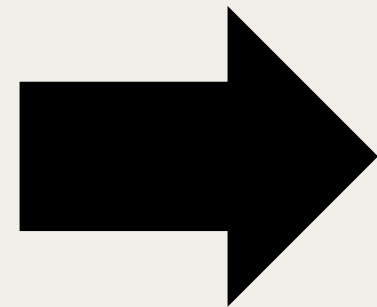


# HEPA FILTRATION + UV

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## Before

0.3micron @ 92,000  
0.5micron @ 18,000  
1.0micron @ 3,500  
2.5micron @ 500  
5.0micron @ 100  
10 micron @ 50



## After

0.3micron @ 2,000  
0.5micron @ 200  
1.0micron @ 5  
2.5micron @ 5  
5.0micron @ 0  
10 micron @ 0



## Improvement

98% effective  
98.9% effective  
99.85% effective  
99% effective  
100% effective  
100% effective



# BENEFITS OF ERV

- Introduce pre-cooled and filtered fresh air into indoor spaces.
- Remove indoor contaminants such as viruses, bacteria, VOCs etc
- Improved comfort levels
- Recommended ACH is 4-6 times

## ERV-HF Series

Enthalpy efficiency up to 90%



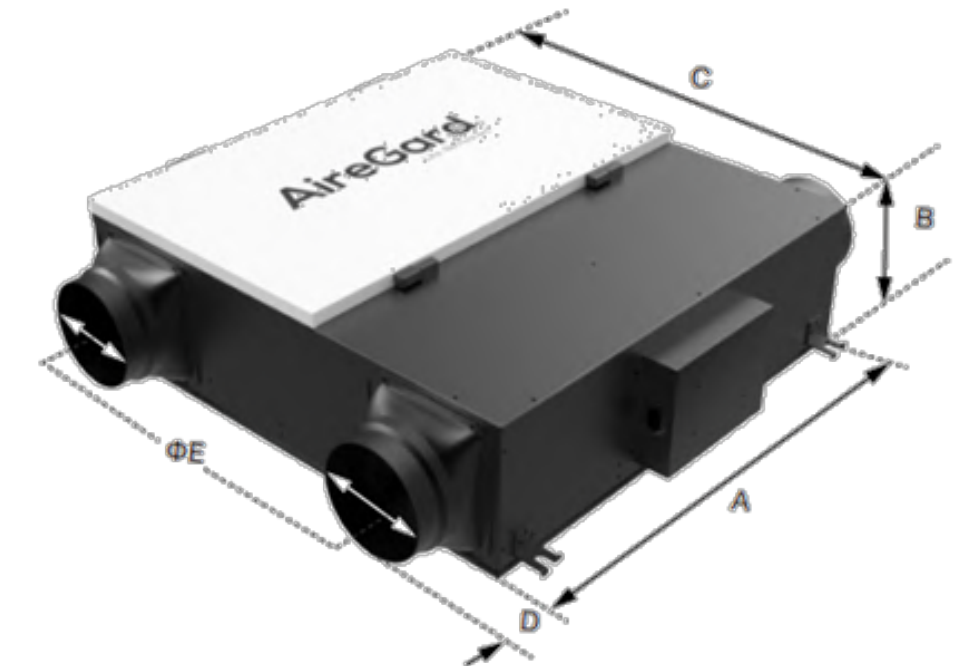
Model	Voltage	Speed	Power	Airflow	Static Pressure	Exchange Efficiency		Enthalpy Exchange Rate		Noise
						Cooling	Heating	Cooling	Heating	
ERV-100HF	220V~50Hz	High	70W	90CFM	195Pa	64%	78%	65%	69%	38dB
		Low	60W	60CFM	155Pa	65%	79%	64%	73%	36dB
ERV-250HF	220V~50Hz	High	160W	206CFM	285Pa	50%	77%	59%	68%	42dB
		Low	140W	147CFM	270Pa	65%	81%	64%	68%	40dB
ERV-350HF	220V~50Hz	High	200W	323CFM	300Pa	56%	70%	56%	66%	43dB
		Low	180W	235CFM	280Pa	60%	71%	58%	67%	41dB

# SPECIFICATION

## ERV-HF SERIES

unit: mm

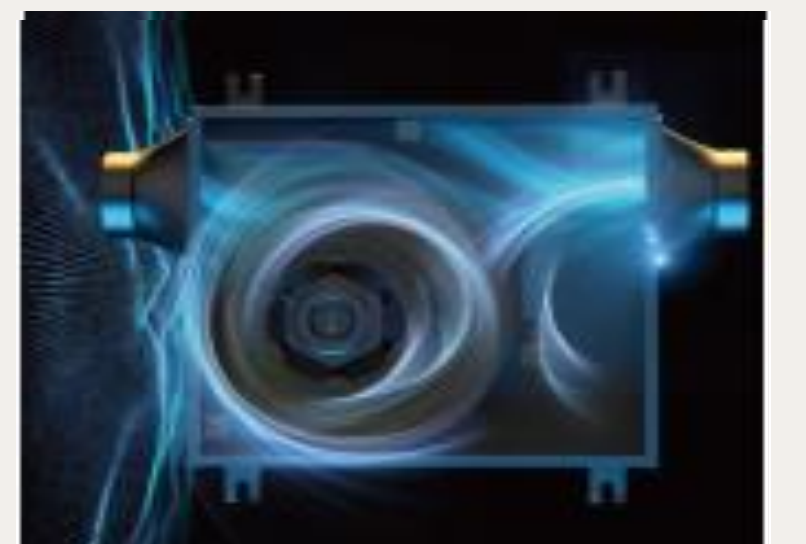
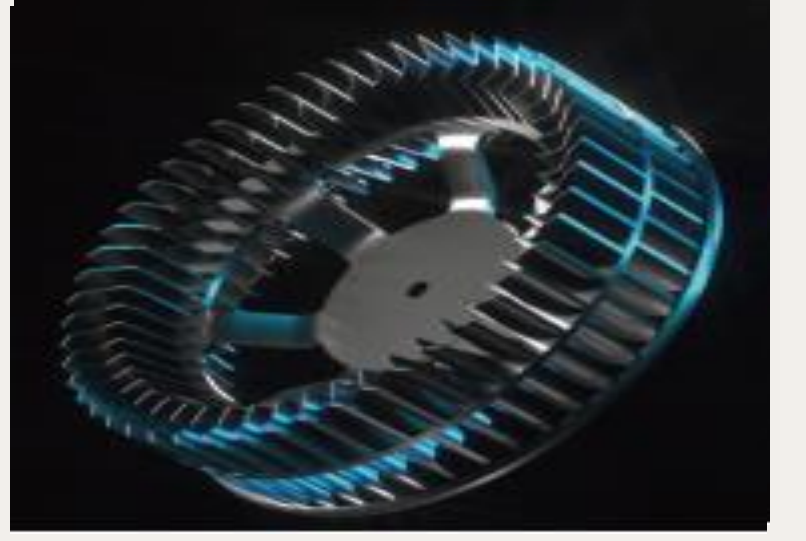
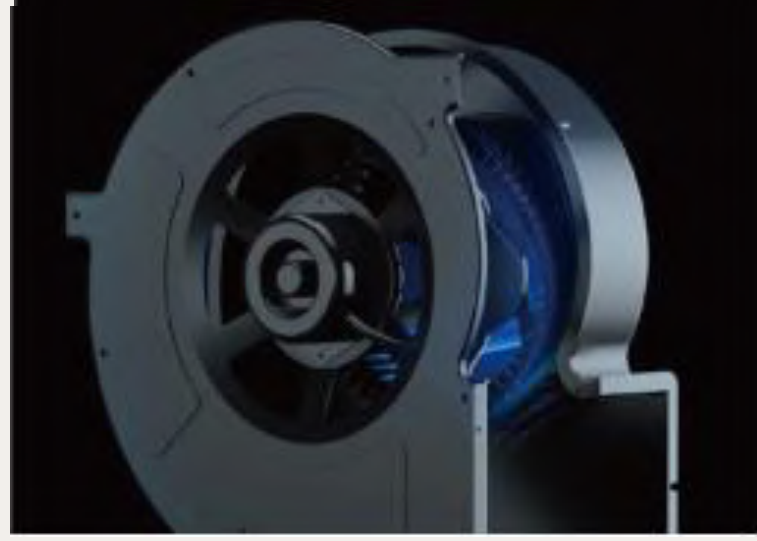
Model	A	B	C	D	ΦE	
ERV-100HF	684	141	715	62	100	33.0kg
ERV-250HF	684	200	715	75	150	32.0 kg
ERV-350HF	684	250	715	64	200	36.0kg



# DIMENSION

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## ERV-HF SERIES

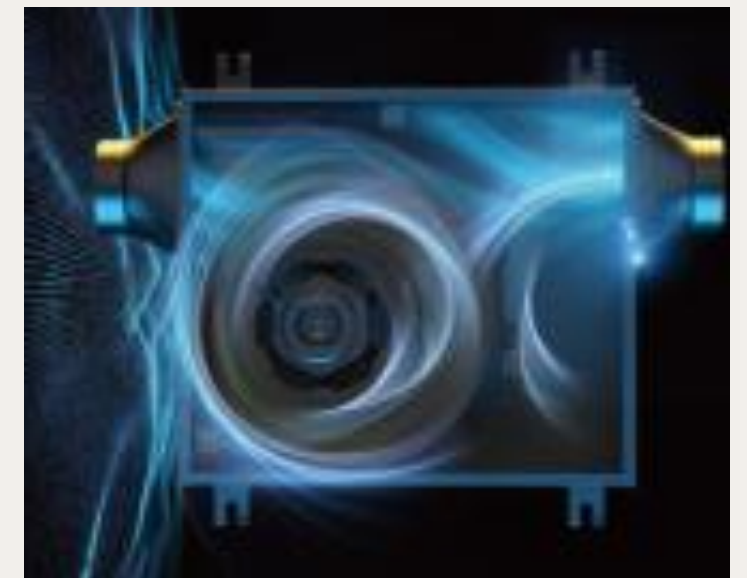
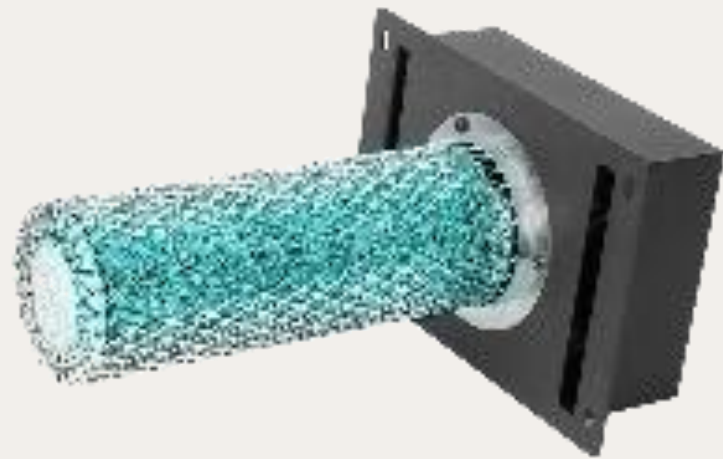




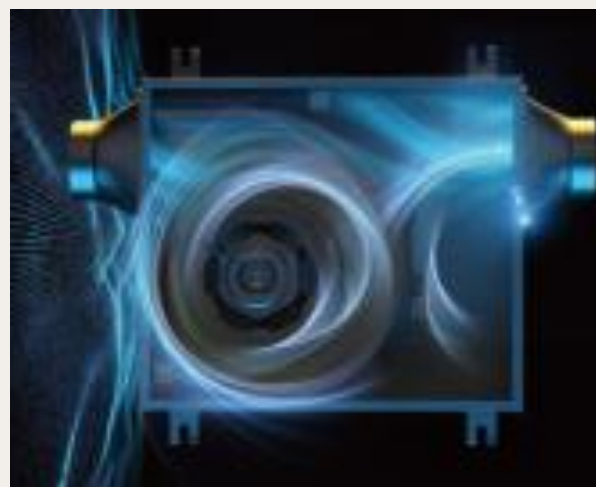
# CLEAN AIR SYSTEMS

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Featuring the first ever ceiling mounted clean air systems to purify indoor air in Malaysia; best suited for workspaces, medical facilities, and even residential application.







# Features of FS-UV Series

## HEPA 12

High efficiency filtration media removes up to 99% 0.3micron particulate matter.

## UVGI

Uses UV-C lights at 254nm to inactivate viruses, bacteria and germs that are trapped in the filters as well as in airstream.

## SLIM DESIGN

Low body height for easy fitment in almost any ceiling space.

## CARBON FILTER

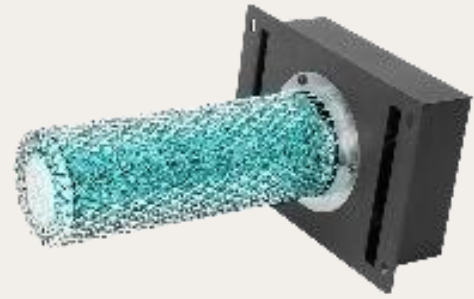
Absorbs formaldehyde, benzene & harmful chemicals (VOCs).

## QUIET OPERATION

High performance motor ensures low electrical consumptions and whisper quiet operation.

## 3-YEAR WARRANTY

Refer to our warranty terms and conditions for more information.



# Features of PI-6500 Series



## NANO TITANIUM IONIZER

Releases super oxide molecules and hydro-peroxides that destroy contaminants on surfaces and in the air.

## UVGI

UV-A spectrum 365nm for effective disinfection

## HVAC COMPATIBLE

Easily integrated with your existing HVAC system for in-duct irradiation

## OZONE FREE

Safe for use in all types of environment.

## QUIET OPERATION

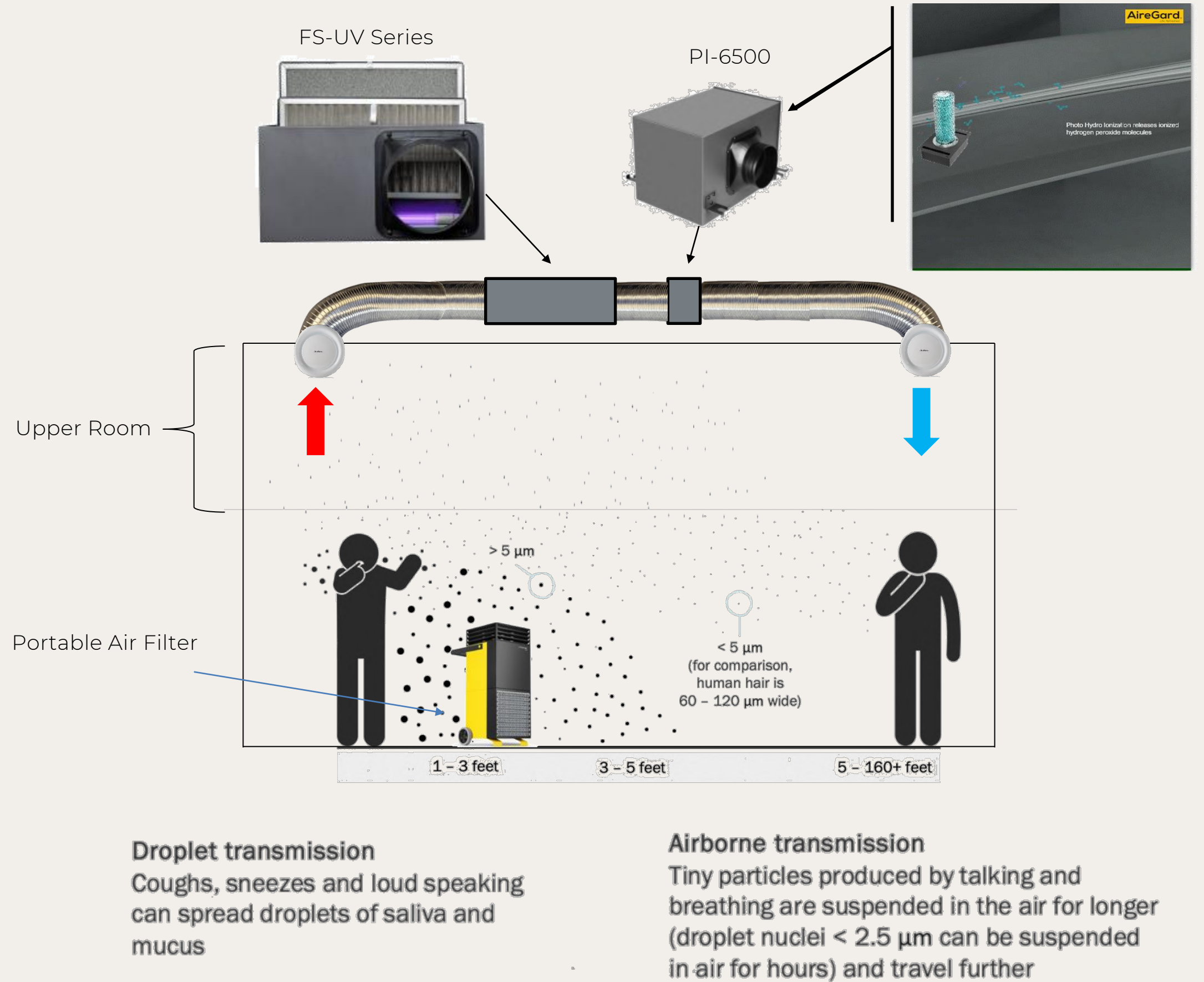
Hear nothing at all.

## 3-YEAR WARRANTY

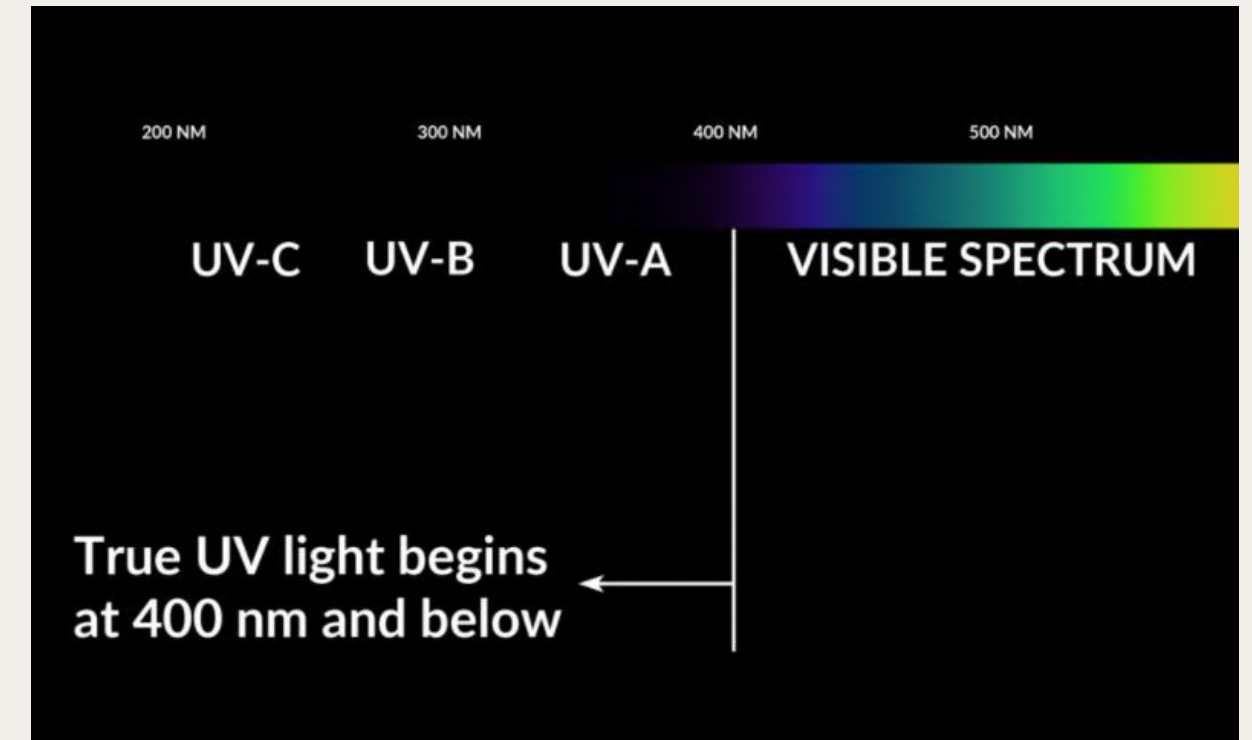
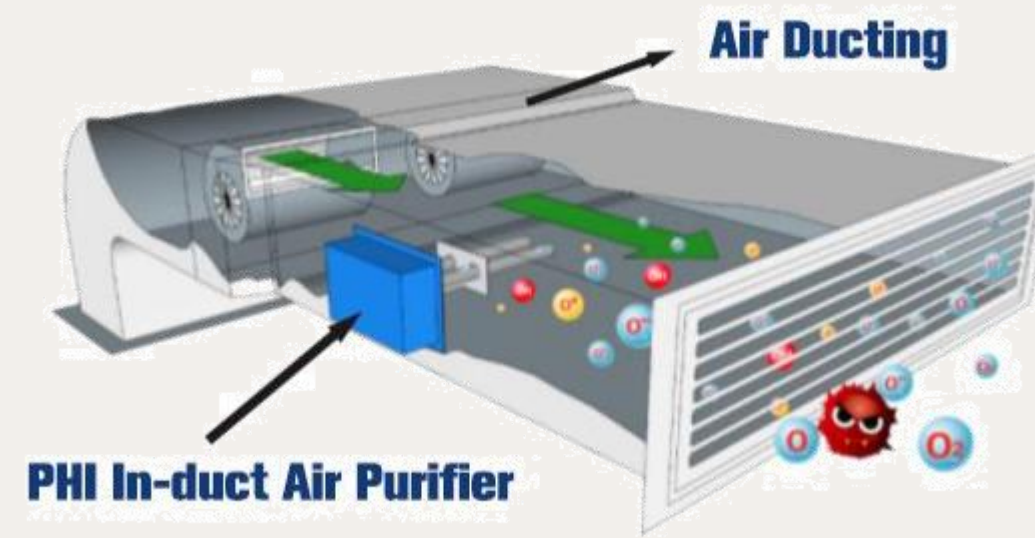
Refer to our warranty terms and conditions for more information.

# Highlight of Clean Air Systems

- HEPA12
- UV-C lamp for FS-UV Series
- Photo-Hydro Ionizers



# Highlight of PI-6500



PHI (Photo-hydro-ionization) is an advance oxidation technology.

It uses ultraviolet UV-A light wave (365 nanometer) to excite the nano-titanium dioxide catalyst, oxygen and water molecules in the air to produce hydroxyl  $\text{OH}^-$ , hydrogen peroxide  $\text{H}_2\text{O}_2$ , negative oxygen ions  $\text{O}^-$ , oxygen ions  $\text{O}$ , and other disinfection and purification factors to crush the molecular chains of the compound and quickly kill microorganisms decompose volatile gases and odor molecules.

- 
- Can be used as HVAC in-duct germicidal irradiation





**VS.**



Filtration may not be effective to reach upper room microdroplets

More effective and even in extracting suspended microdroplets

Takes up floor space

Does not require floor space

Can be noisy

Quiet operation


# CLEAN AIR SYSTEM FILTRATION



Ambient reading air reading from an office in a meeting room without occupants

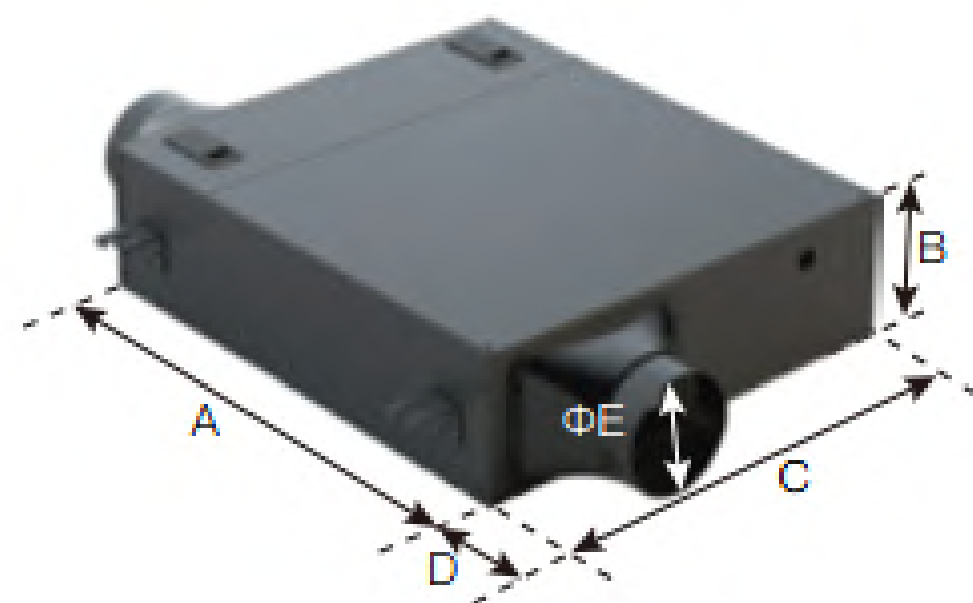


Air reading taken after filtration and treatment with HEPA12, UVC & PHI

Model	Description	Size	Speed	Specification				
				Voltage/ Frequency	Power (W)	Airflow (cfm)	Air Pressure (Pa)	Noise (dB)
FS-100UV (with UV-C)		Φ100mm	H	220V/50Hz	45	106	160	31
			L		30	70		30
FS-300UV (with UV-C)		Φ150mm	H	220V/50Hz	75	265	210	38
			L		55	206		36
FS-450UV (with UV-C)		Φ200mm	H	220V/50Hz	115	440	300	42
			L		85	323		40

# SPECIFICATION

FS-UV Series



unit: mm

Model	A	B	C	D	ΦE
FS-100UV	367	120	420	88	100
FS-300UV	367	200	420	88	150
FS-450UV	367	250	420	88	200

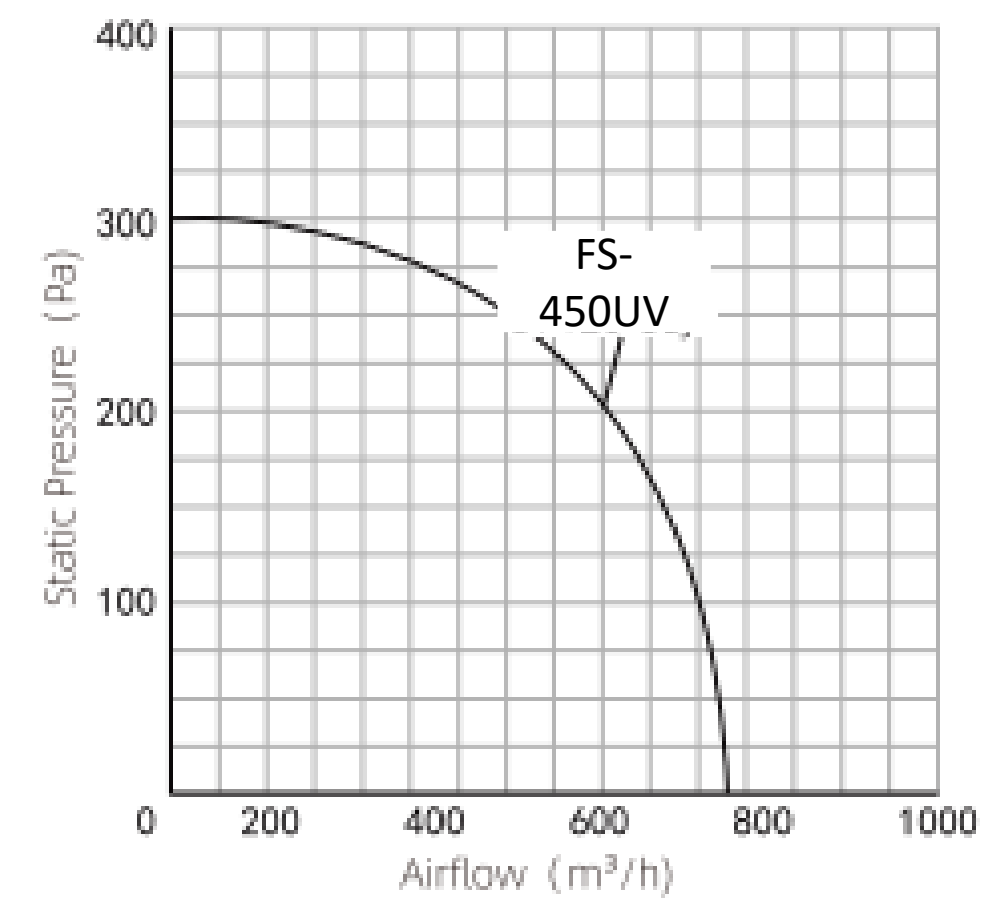
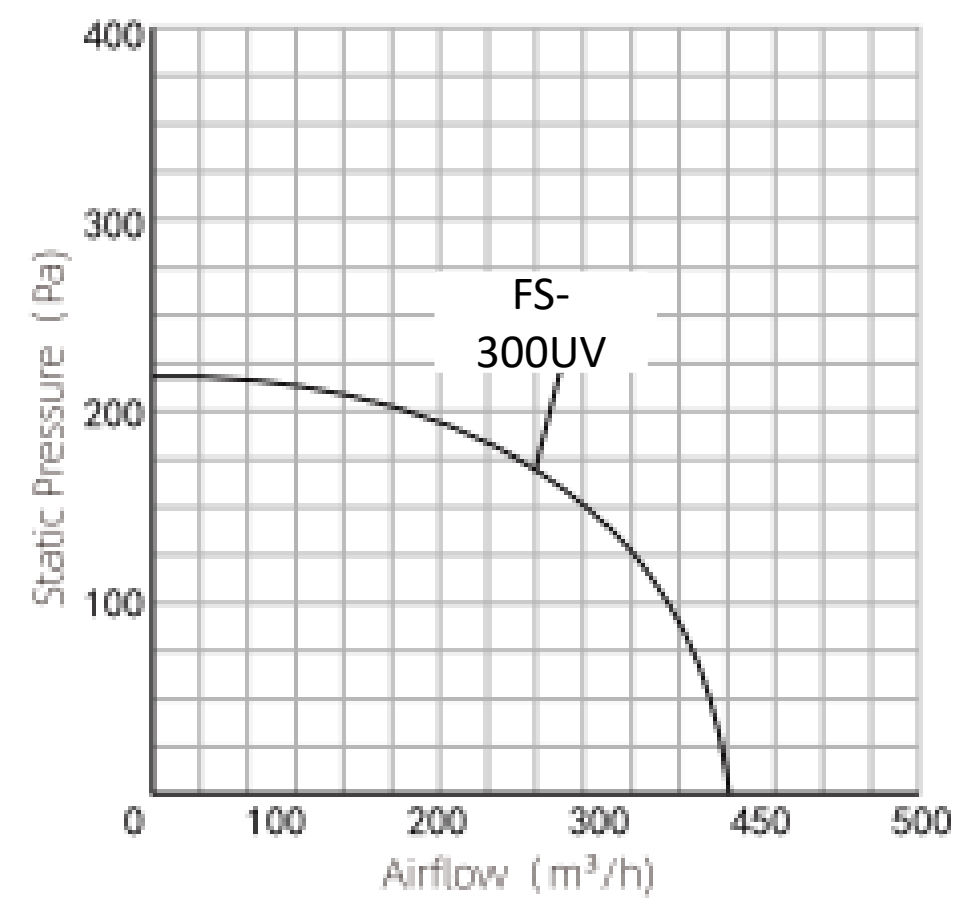
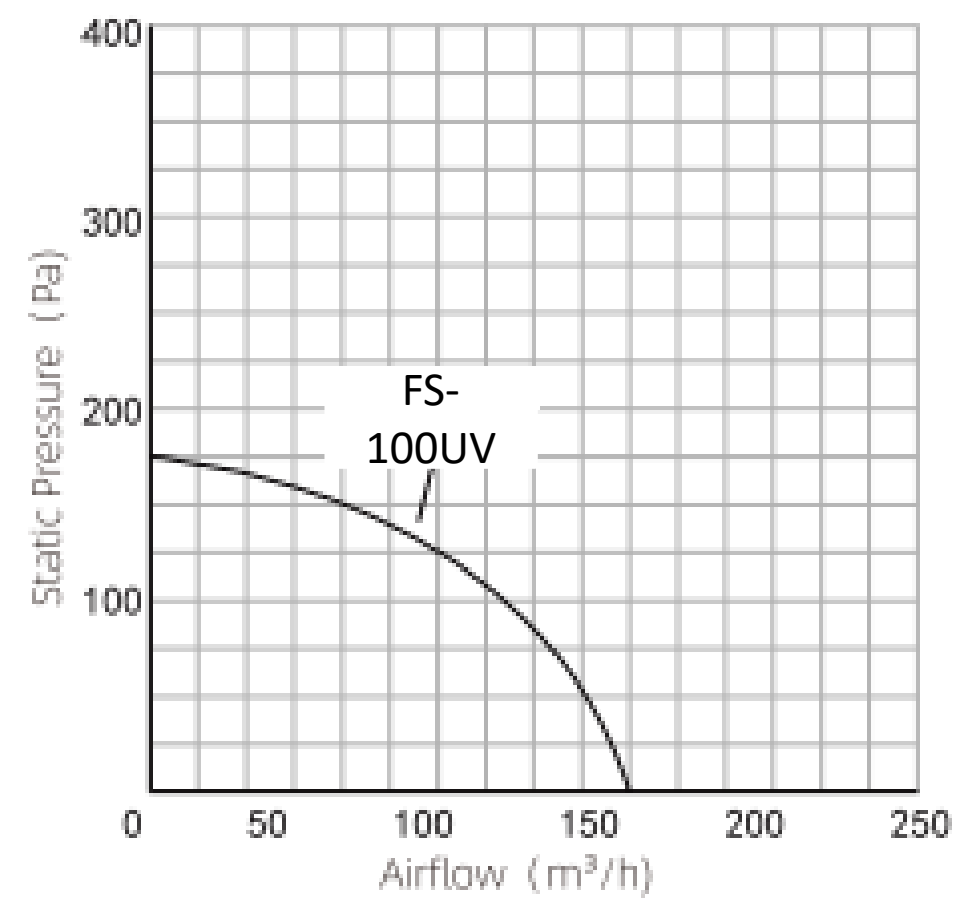
# DIMENSION

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## FS-UV SERIES



# Air-Flow Chart



**FS-UV Series**

Model	Description	Specification					
		Dimension	Effect of substance	Features	Voltage/ Frequency	Power (W)	Applicable CFM
PI-6500		120 x 220 x 275	1.Germicidal UV-A light 2. Hydroxyl Radical OH 3.Negative Oxygen Ion O- 4.Hydroperoxides H2O2 5.Oxygen Ion O 6.Hydroxides	1. Kill virus and bacterial 2. Decomposes VOC, chemical elements,odor and allergen 3.Coagulates particles	220V/50Hz	36	1000-6500

# SPECIFICATION & DIMENSION

PI Series

REGISTERED WITH  
SURUHANJAYA TENAGA



SIRIM APPROVED



IEC & IECEE  
INTERNATIONAL SAFETY  
STANDARD COMPLIANCE



**OUR  
COMPLIANCE  
STANDARD**

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**Thank you for your time!**