



Virus Guard Air Filtration Equipment



V-Guard
JHPS 3000

JAF[®]
JAPAN AIR FILTER



Japan Air Filter (JAF), founded in Japan year 1960, is one of the market leaders in the industry that has developed extensive Air Filtration & Purification Products and Solutions across the world. We are passionately committed to our mission as the leading air filtration company by supplying genuine quality products that can contribute to preserve the global environment and demonstrate the best performance in the Air Filtration & Purification Industry. JAF emphasizes continuous improvement in its product line through its qualified Research & Development team with the enhancement of available innovative technologies to match the market & industry requirements.



JAF establishes its foothold across Asia, with numerous sales offices in key markets such as Indonesia, Thailand, Singapore, Australia and China, as well as the global distribution of products to Pakistan, Bangladesh, the Middle East, Europe, and more. By expanding our presence in more countries, we aspire and continue to develop quality air filtration & purification product and solutions more easily attainable and beneficial to every level of society. We offer the best Air filtration & purification products and services to all customers with the highest satisfaction guarantee.

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Solutions to eliminate the spread of *Airborne Virus*

THE IMPORTANCE OF INDOOR AIR QUALITY & VIRUS CONTROL

Indoor air is perhaps on an average, 2 to 5 times more polluted than the immediate surrounding outdoor air, since, without proper or inadequate ventilation, indoor air may get added with the outdoor air contaminants along with pollutants build-up by time, making it worse than the outdoor air. Commonly, any indoor may originate building-up **particulate matter** (dust) from surfaces utilization of occupants, **volatile organic compounds** (VOCs) due to organic materials such as paints, room fresheners, perfumes, etc., and **ozone & halogen-based pollutants** from household machinery such as refrigerators, copiers, printers, etc. With poor indoor ventilation, it may cause severe health problems and at worst, risk leading to respiratory, heart diseases or even lung cancer.

Adding to the recent COVID-19 pandemic outbreak, it has reminded us even more on the importance having good **IAQ** (indoor air quality) since the airborne contaminants can affect the immunity of an individual, which may hinder the fight against the deadly virus. WHO (World Health Organization) also agreed to the fact that COVID-19 can be airborne longer than suspected in the form of **aerosol transmissions** besides transmission through droplets on surfaces containing the virus.

Therefore, using proper ventilation techniques with accurate filters are extremely important to safeguard valuable lives. To prevent air contamination in the indoor environment and the recent airborne virus, JAF has developed the **V-Guard Air Filtration Equipment** equipped with **Virus Guard HEPA filter** it's filtration technology that is high in performance & with outstanding effectiveness. This filtration technology used can filter air particles and inactivate the virus* by 99.99%, as proven a test performed by BOKEN Japan.

The proven result help users ease of mind owning a SAFE AMBIENT using JAF Virus Guard Air filtration equipment.

*tested with Feline Calicivirus

How can poor Indoor Air Quality affect your health?

Indoor Air Quality (IAQ) refers to the air quality within our homes, workplaces & buildings, especially as it relates to the health and comfort of occupants. Understanding and controlling common pollutants indoors can help reduce your risk of indoor health concerns.

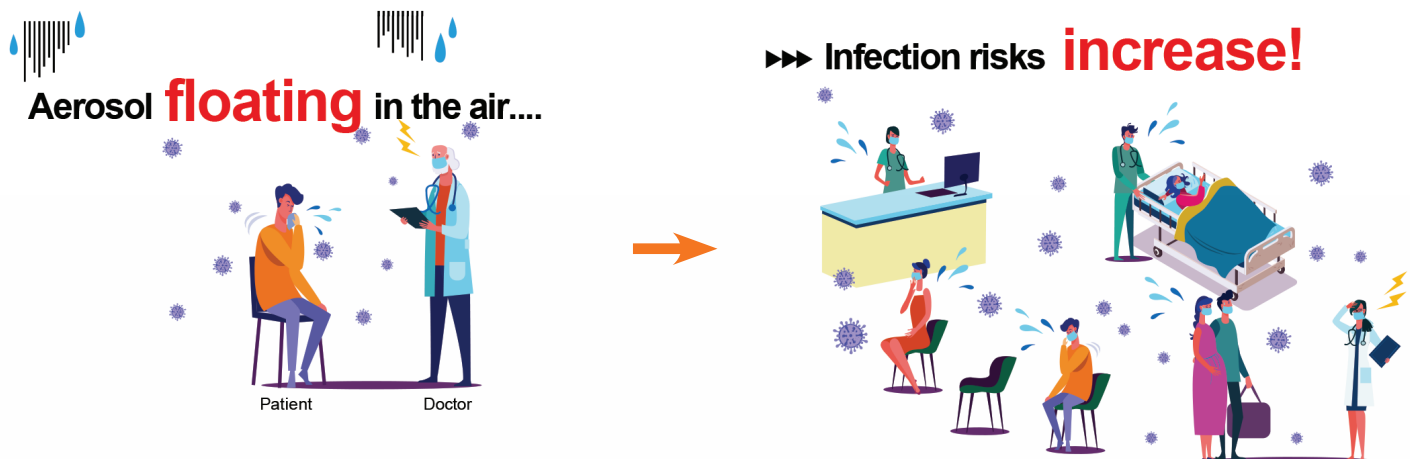
Air pollution particles or airborne pollutants are the constants exposure in our homes or workplace. Trapping bad air in an air-conditioned or confined space without proper ventilation can cause health problems like allergies, congested sinuses, headaches, asthma and tiredness. The indoor air that we breathe can be 2 to 5 times more polluted than the air outdoor.

So what happens when indoor air quality gets contaminated or when someone has a cold or flu in the confined room? The cold or flu virus stays longer and will keep circulating in the same indoor air. And when excess particles or microorganisms build-up by time yet without a proper ventilation system, it could later lead to health problems and critical diseases.

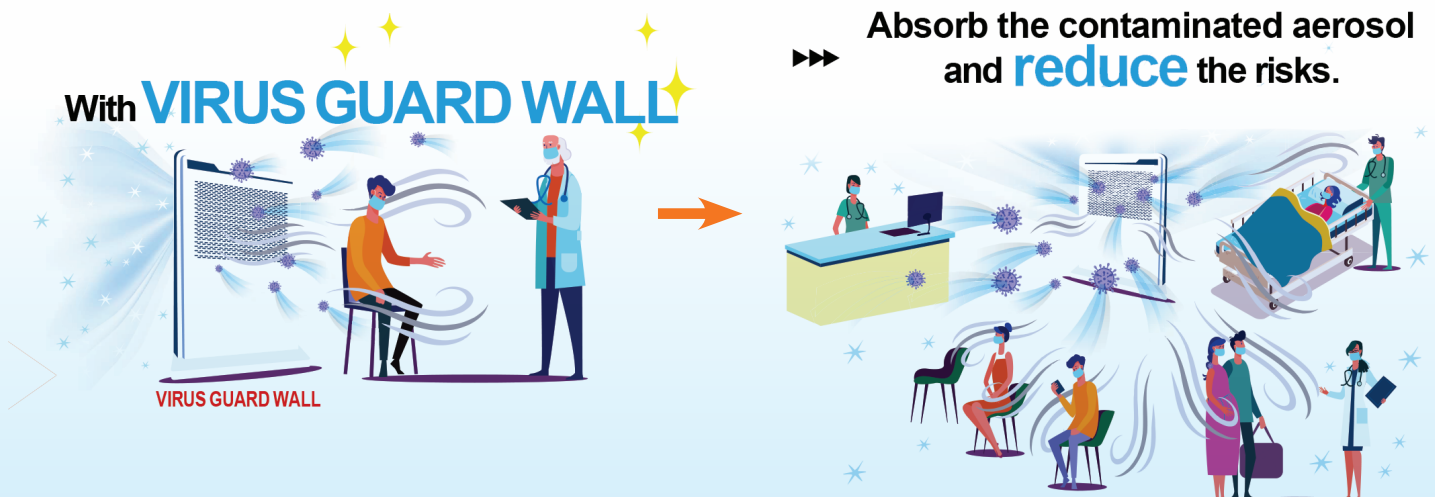
It is prudent to improve the **indoor air quality** by having **proper air ventilation** (or Air Change) in our homes or workplace. Discover these benefits with clean air; cleaner lungs, decrease asthma, sinus & allergies, improved skin appearance, helps digestion, psychological and emotional stabilize, better mood and normalize sleep patterns, reduce chances of lung, heart, and arterial diseases.

A simple diagram here below will show you an example of **aerosol contaminants** in the atmosphere, a higher risk without proper air ventilation, as a crucial guide for your protection consideration.

What happens when you have **aerosol contaminants circulating** in a confined space?



The effective solution to eliminate the spread of **Airborne Virus**





Virus Guard Filter

Efficiently remove & inactivate virus

A guard system & protection for health personnel, patients, workers, customers, and in all trades **against aerosol contaminants.**



Proven result for Feline calicivirus (PFU)

	Just after vaccination	2hrs later	24hrs later
Conventional	389,045	194,984	44,668
VIRUS GUARD	389,045	36	>6

Performed by BOKEN Japan

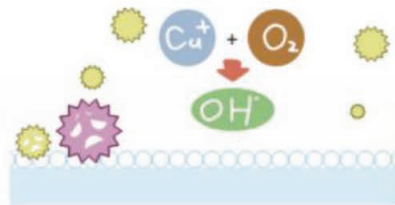
JAF Virus Guard filters

Virus Guard LunaCel TSV HEPA filter, enables double actions; to remove and to inactivate the microbial transmissions through the filter.

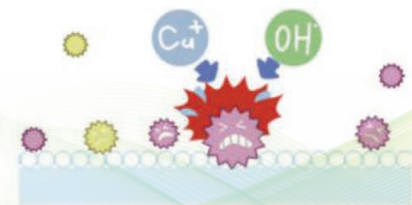
Anti-viral and anti-bacterial mechanism



When nanoparticles of a monovalent copper compound collide with viruses or bacteria, they elute monovalent copper ions into the ambient moisture.



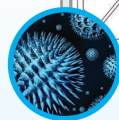
Monovalent copper ions react with oxygen to product reactive oxygen.



The power of copper ions and reactive oxygen act together reduce viruses and bacteria.

3 STAGES Filtration solution

High performance in removal of airborne contaminants & inactivate the virus by 99.99% with **Virus Guard HEPA**



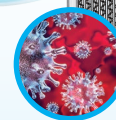
Pre-Filter

Filters bigger particles such as hair, pet fur, dust, pollen or lint



Activated Carbon

Efficiently removes various household Odours such as cooking smells, pet or other VOCs



HEPA

Filters 99.99% @ 0.3 micron of fine particles, Microorganism such as airborne virus or bacteria, Allergens, fire smoke/haze.

*tested with Feline Calicivirus

V-Guard 450B / 700B

Clean, Purify & Remove air contaminants, dust & harmful particles with **Virus Guard HEPA filter**, a high performance grade filter that **inactivate airborne virus by 99.99%** plus **TerraComb®** activated carbon, high efficiency in removal of heavy gases pollutants / odour

30m²
323ft²
Air Change
(450B unit)
6 Times
/ per hour



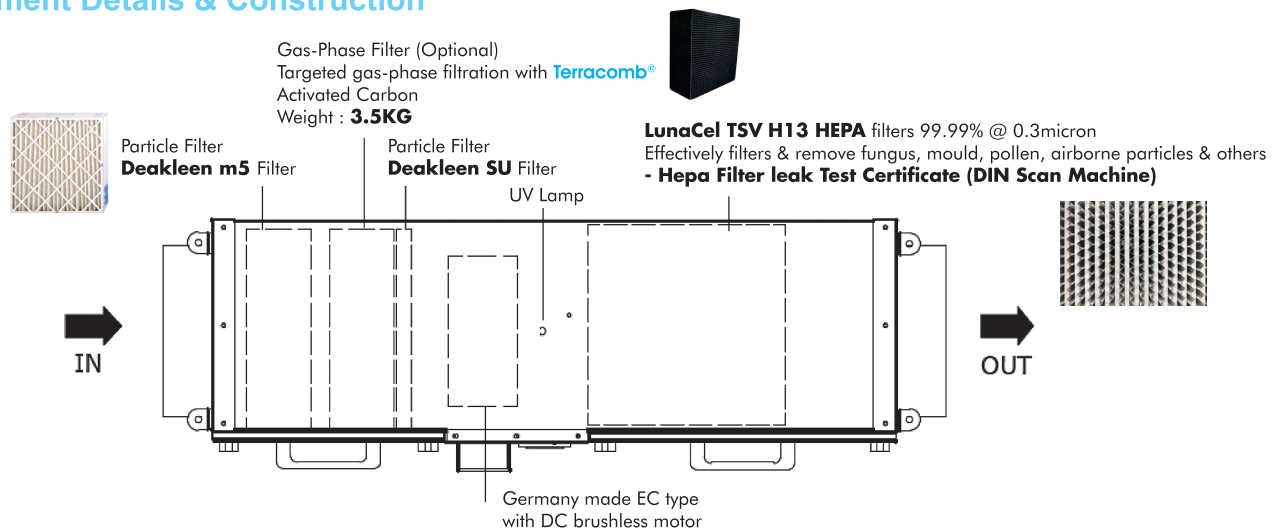
Product Application

Suitable for various types of indoor, especially for but not limited to;

- Clinics, dental & hospitals
(Recirculation, positive & negative pressurization)
- Schools, Colleges & all other educational institutions
- Commercial buildings, offices & financial institutions
- Hotel & hospitality kiosks
- Saloon, spa, & recreation service room



Equipment Details & Construction



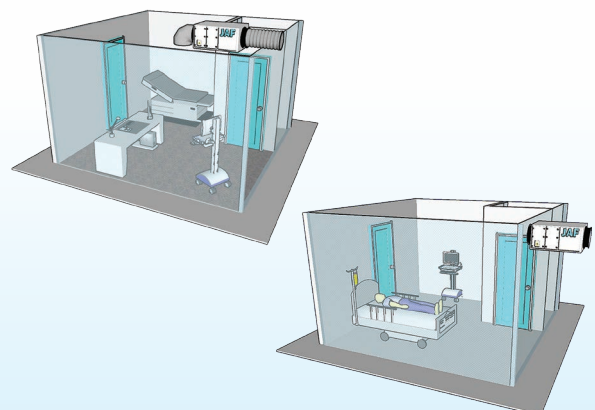
TOP VIEW

System Details & Construction

Model	V-Guard 450B	V-Guard 700B
Unit Dimension (WxHxD) / Weight	328 x 338 x 1008mm / 30kg	328 x 338 x 1158mm / 36kg
Air Volume CMH	530/ 450/ 370/ 280	745/ 540/ 385/ 255
Noise Levels (dBA)	62/ 60/ 55/ 50	62/ 60/ 53/ 45
Fan Speed	Turbo/ High/ Medium/ Low	
Blower Assembly	EC Centrifugal Fan	
Speed controller	Analog Controller	
Construction	Single Skin Powder coated Galvanized Steel in White Color finished	
Electricity and Power Consumption	200-240V, 50Hz, 1Phase	
Warranty	1 Year (excluding filter)	

Design of equipment & specification may subject to modification or alteration without prior notice.

Typical Installation Layouts



V-Guard 650F / 880

Clean, Purify & Remove air contaminants, dust & harmful particles with **Virus Guard HEPA filter**, a high performance grade filter that **inactivate airborne virus by 99.99%** plus **TerraComb®** activated carbon, high efficiency in removal of heavy gases pollutants / odour



66.6m²
717ft²
Air Change
(650F unit)
5 Times
/ per hour



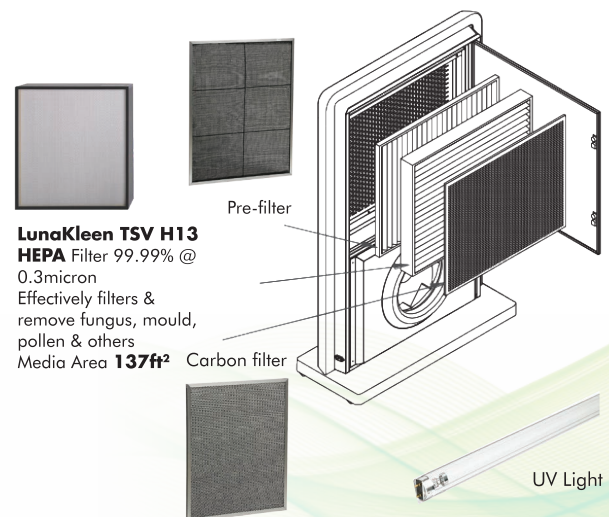
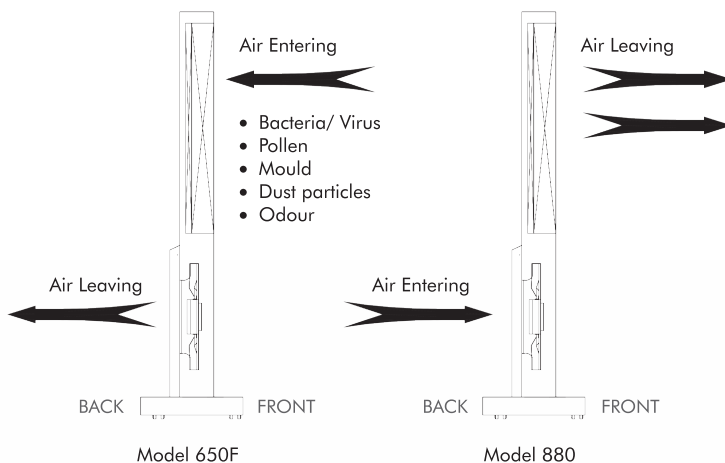
Product Application

Suitable for various types of indoors, especially for, but not limited to:

- Negative Pressure Isolation Wards, Clinic, Dental, Doctor Consultation Room
- Commercial Building, Offices & Financial Institutions
- Hotels & Hospitality Kiosks
- Saloon, Spa & Recreation Service Rooms



Equipment Details & Construction

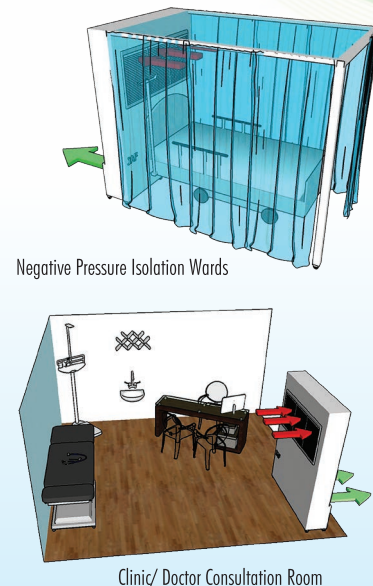


System Details & Construction

Model	V-Guard 650F	V-Guard 880
Unit Dimension (WxHxD) / Weight	1010 x 1585 x 170mm / 85kg	
Air Volume CMH	1060/ 491/ 240	1185/ 512/ 240
Noise Levels (dBA)	54/ 41/ 37	54/ 41/ 37
Fan Speed	High / Medium / Low	
Air Intake & Supply	Low noise & Low pressure -Perforated plates	
Speed controller	Digital Controller	
Construction	Single Skin Powder Coated Galvanized Steel in White color finished	
Rated Power	16.5 -200W	
Rated Voltage & Frequency	1 Phase/ 220V/ 50Hz	
Warranty	1 Year (excluding filter)	

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Typical Installation Layouts



V-Guard 1500

Clean, Purify & Remove air contaminants, dust & harmful particles with **Virus Guard HEPA filter**, a high performance grade filter that **inactivate airborne virus by 99.99%** plus **TerraComb®** activated carbon, high efficiency in removal of heavy gases pollutants / odour



100m²

1076ft²

Air Change

5 Times

/ per hour



Product Application

Suitable for various types of indoors, especially for, but not limited to:

- Clinics, Hospitals & Healthcare facilities (preferably non-critical zones)
- Schools, Colleges & Educational Institutions.
- Commercial Buildings, Offices & Financial institutions.
- Hotels Rooms & Hospitality Kiosks.
- Saloon, Spa & Recreation Service Rooms.
- Pet Shops & Services.



Equipment Details & Construction



Analog Controller

HEPA Cartridge Filter
H13 filters 99.99% @ 0.3micron
Effectively remove mold, fungus, bacteria, pollen and others.
Media Area **159ft²**

Pre-filter
Deakleen
Effectively remove particle.
G4 filter
sturdy beverage frame.



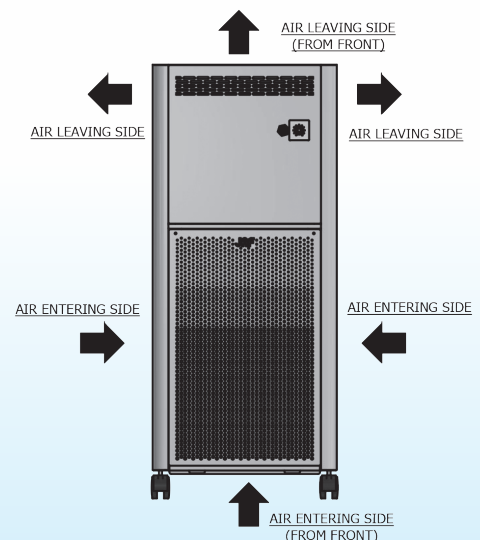
Gas Phase filter
TerraComb®
Effectively remove formaldehyde, toluene, benzene, TVOCs.
Metal frame
Weight : **4KG**



System Details & Construction

Model	V-Guard 1500
Unit Dimension (WxHxD) / Weight	465 x 1050 x 465mm / 45kg
Air Volume CMH	1500/ 1000/ 500
Noise Levels (dBA)	58/ 35/ 15
Fan Speed	High / Medium/ Low
Blower Assembly	EC Type with DC Brushless motors
Speed controller	Analog Controller
Construction	Single Skin Powder coated Galvanized Steel in White Color finished
Electricity and Power Consumption	200 - 240V, 50Hz, 1 Phase
Warranty	1 Year (excluding filters)

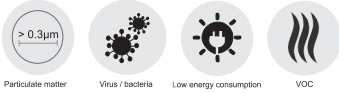
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FRONT VIEW

V-Guard 2500

Clean, Purify & Remove air contaminants, dust & harmful particles with **Virus Guard HEPA filter**, a high performance grade filter that **inactivate airborne virus by 99.99%** plus **TerraComb®** activated carbon, high efficiency in removal of heavy gases pollutants / odour



166m²
1793ft²
Air Change
5 Times
/ per hour



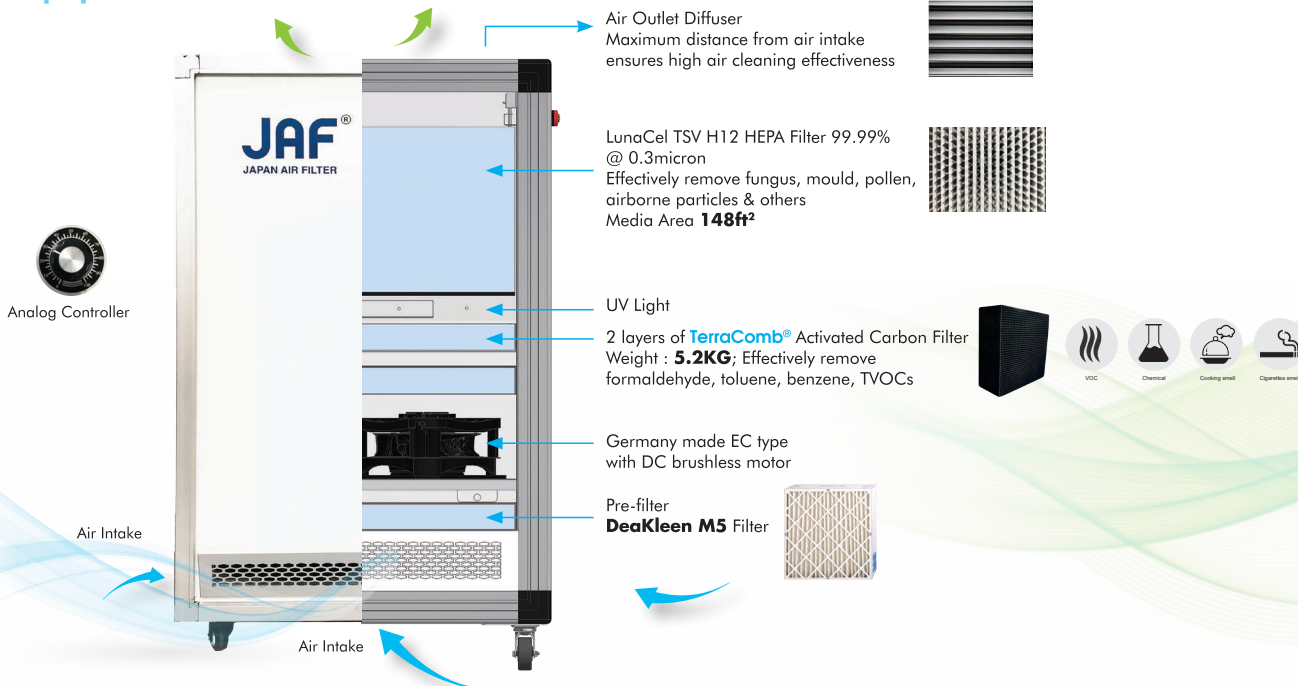
Product Application

Suitable for various types of indoors, especially for, but not limited to:

- Clinics, Hospitals & Healthcare facilities (preferably non-critical zones)
- Schools, Colleges & Educational Institutions.
- Commercial Buildings, Offices & Financial institutions.
- Hotels Rooms & Hospitality Kiosks.
- Saloon, Spa & Recreation Service Rooms.
- Pet Shops & Services.



Equipment Details & Construction

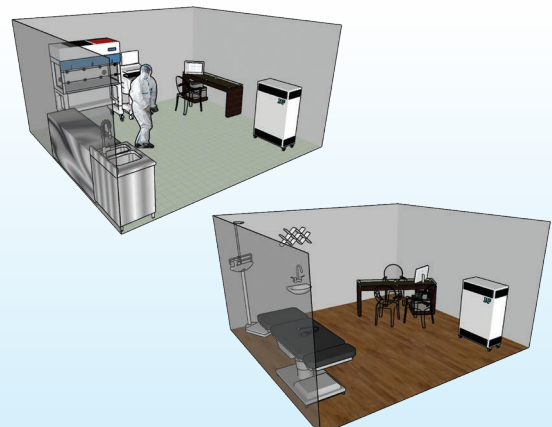


System Details & Construction

Model	V-Guard 2500
Unit Dimension (WxHxD) / Weight	750x1050x375mm / 60kg
Air Volume CMH	2500/ 2000/ 1500/ 1000
Noise Levels (dBA)	56 / 53 / 51 / 45
Fan Speed	Turbo / High / Medium / Low
Blower Assembly	EC Type with DC Brushless motors
Speed Controller	Analog Controller
Construction	Single Skin Powder coated Galvanized Steel in White Color finished
Electricity and Power Consumption	200-240V, 50Hz, 1 Phase
Warranty	1 Year (excluding filters)

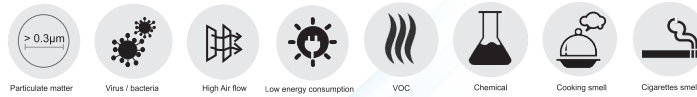
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Typical Installation Layouts



JHPS 3000

Clean, Purify & Remove air contaminants, dust & harmful particles with **Virus Guard HEPA filter**, a high performance grade filter that **inactivate airborne virus by 99.99%** plus **TerraComb®** activated carbon, high efficiency in removal of heavy gases pollutants / odour



200m²
2152ft²
Air Change
5 Times
/ per hour



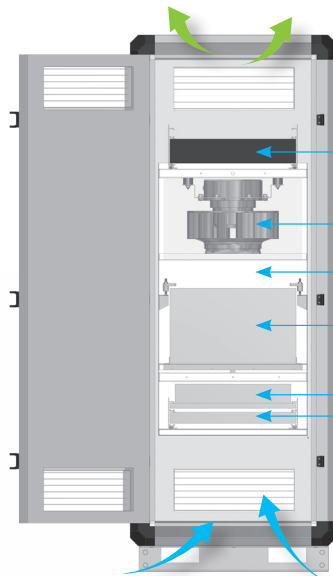
Product Application

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- Clinics, Hospitals & Healthcare facilities (preferably non-critical zones)
- Schools, Colleges & Educational Institutions.
- Commercial Buildings, Offices & Financial institutions.
- Hotels Rooms & Hospitality Kiosks.
- Saloon, Spa & Recreation Service Rooms.
- Pet Shops & Services.



Equipment Details & Construction



TerraComb® Activated carbon

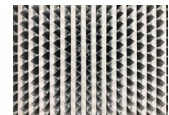
Weight : **11KG**; Effectively remove formaldehyde, toluene, benzene, TVOCs



Germany made EC type with DC brushless motor

UV Light

H13 **LunaCel TSV HEPA** filters 99.99% @ 0.3micron
Effectively remove fungus, mould, pollen airborne particles & others
Media Area **208ft²**



Secondary Filter : **MiraCel** PM2.5 Filter
Effectively remove PM2.5 Particle



Pre-filter : **DeaKleen** G4
Effectively remove particle

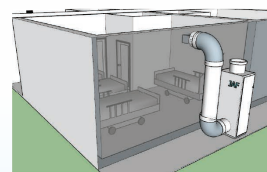


System Details & Construction

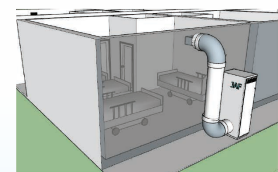
Model	JHPS 3000
Unit Dimension (WxHxD) / Weight	750 x 1742 x 616 mm / 120kg
Air Volume CMH	3285/ 2845/ 2055/ 1130
Noise Levels (dBA)	60/ 58/ 51/ 43
Fan Speed	Turbo/ High/ Medium/ Low
Blower Assembly	EC Type with DC Brushless motors
Time Delay	4 / 8 / 12 hours
Speed controller	Analog Controller
Construction	Double wall construction 2" panel
Electricity and Power Consumption	240 V, 50 Hz, 1 phase
Warranty	1 Year (excluding filters)

Design of equipment & specification may subject to modification or alteration without prior notice.

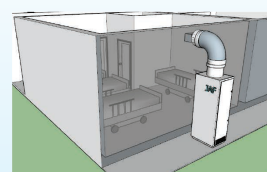
Typical Installation Layouts



Negative Pressure



Negative Pressure



Positive Pressure



Recirculate



Virus Guard Filter

Efficiently remove & inactivate virus



Specification Summary

Model Number	450B		700B	650F	880	1500	2500	3000
Type	Conceal Type			Front Air Inlet	Back Air Inlet	Portable Canister Type	Portable Type	Verticle/ Horizontal
Air Flow	530 CMH		745 CMH	1060 CMH	1185 CMH	1500 CMH	2500 CMH	3285 CMH
Unit Dimension (WxHxD)	328 x 338 x 1008		328 x 338 x 1158	1010 x 1585 x 170		465 x 465 x 1050	357 x 750 x 1050	702 x 1742 x 616
Particle Air Filtration Stages								
First stage Filter	DeaKleen M5 295 x 295 x 95mm		DeaKleen M5 295 x 295 x 95mm	Pre-filter - Saran Net		DeaKleen SU 570 x 370 x 22mm	DeaKleen M5 310 x 610 x 95mm	DeaKleen M5 492 x 492 x 44mm
Second stage Filter	TerraComb® 295 x 295 x 95mm		LunaCel TSV 295 x 295 x 292mm	LunaKleen TSV 610x760x69mm		Canister Hepa Filter 265 x 382 x 610mm	TerraComb® 310 x 610 x 44mm	MiraCel II F9 492 492x95mm
Third stage Filter	DeaKleen SU 295 x 295 x 22mm		TerraComb® 295 x 295 x 95mm	Carbon Filter 610 x 760 x 69mm			TerraComb® 310 x 610 x 44mm	LunaCel TSV 492 x 492 x 292mm
Final stage Filter	LunaCel TSV 295 x 295 x 292mm		DeaKleen SU 295 x 295 x 22mm			TerraComb® 380 x 380 x 50mm	LunaCel TSV 310 x 610 x 292mm	TerraComb® 492 x 492 x 95mm
UV Light (*optional)	Main Application: Disinfection / Length 302.5mm & Diameter 16mm / Useful Life (Nom): 11000 hours							
Gas-Phase Media Optional								
TerraComb® VOCs	Volatile organic compound			**		Volatile organic compound		
TerraComb® Acid	Acid vapour control			**		Acid vapour control		
TerraComb® Base	Ammonia & amines control			**		Ammonia & amines control		
Others	Fomaldehyde, Hydrogen Sulfide, Sulfur Dioxide, Nitric Oxide			**		Fomaldehyde, Hydrogen Sulfide, Sulfur Dioxide, Nitric Oxide		
Model Specifications								
Housing Material	Powder Coated Steel Housing							
Electricity & Power Consumption	200 - 240V, 50Hz, 1 Phase							
Colour	White			White		White	Off-White	Cream
Speed Controller	Analog			Digital Controller		Analog		
Air Volume CMH	530/450/370/280		745/540/385/255	1060/491/240	1185/512/240	1500/1000/500	2500/2000/1500/1000	3285/2845/2055/1130
Noise level dBA	62/60/55/50		62/58/53/45	54/41/37	54/41/37	58/35/15	56/53/51/45	60 dBA≤
Weight (KG)	27		37	85	85	45	60	120
Warranty	1 year (excluding filters)							
Room Size	Air Change Rate by Model Cycle per hour							
	Model	450B	700B	650F	880	1500	2500	JHPS 3000
M² / Ft²	CMH	530	745	1060	1185	1500	2500	3285
15 (161ft²)	12		16.6	24	26	33.3	56	73
23.3 (251ft²)	7.6		11	15.2	17.0	21	36	47
30 (323ft²)	6		8	12	13.2	17	28	36.5
33.3 (358ft²)	5.3		7	11	12	15	25	33
40 (430ft²)	4		6	8.8	10	12.5	21	27
46.6 (501ft²)	3.8		5	7.6	8	11	18	23.5
50 (538ft²)	4		5	7	8	10	17	22
66.6 (717ft²)	2.7		3.7	5	6	7.5	12.5	16
80 (861ft²)	2		3	4.4	5	6.3	10.4	13.7
83.3 (896ft²)	2.1		3.0	4	4.7	6	10	13
100 (1076ft²)	1.8		2.5	3.5	4	5	8.3	11
166.6 (1793ft²)	1		1.5	2	2.4	3	5	7
200 (2152ft²)	0.9		1.2	1.8	2.0	2.5	4.2	5

Calculator: Air Changes Per Hour $ACH = \frac{CFM \times 60}{Area \times Height_{ceiling}}$

Design of equipment & specification may subject to modification or alteration without prior notice.

JAF References



Reception Area



Fitness Centre



Commercial Buildings, Offices
& Financial institutions



Schools, Colleges &
Educational Institutions

JAF References



Clinic, Dental & Hospital



Conference Room



Hospital



Hospital



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UL Certified



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