



Pathogen Deterrence and Clean Air Systematics

THE WORLD LEADER IN CLEAN AIR SOLUTIONS



# AstroPure

Self-Contained HEPA Filtration Unit



#TeamSync-AAF

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# AstroPure

The AstroPure™ Air Purification System utilizes advanced HEPA filtration that is specifically designed to improve indoor air quality in various segment like hospitals, offices, showrooms and all air-conditioned buildings. For applications that require a portable, plug-and-play installation, the line up includes units from 250 to 2000 CFM portable air purifiers to meet the needs of a range of room sizes. These CE certified air purifiers work by increasing air-recirculation rates within a given space, effectively cleaning the air every time it is passed through the 3-stage advanced filtration system.

## “AAF filters prove effective at reducing airborne viral carriers”



## Efficient Controls of Aerosols

In general, quite apart from the ubiquitous discussion about the SARS-CoV-2 virus, air filters are the method of choice for the efficient removal of viruses due to their ability to control aerosol levels in the air. This has been researched for years and has been proven by numerous studies.

The control or containment of aerosols by means of efficient filtration is synonymous with the containment of the viral load in the air, which consequently leads to a reduced risk of COVID-19 infections.

## Features

- A stand-alone complete air purification system to recirculate and clean the air in a controlled environment.
- Available in multiple configurations from 250 CFM upto 2000 CFM with:
  - 100% exhaust
  - Need-based variable exhaust based on the application
  - 100% recirculation- It can be accommodated in an enclosed space in recirculation system in open/close loop.
- Equipped with high-efficiency 3-stage filtration: MEGAcel® I ePTFE HEPA filter, Carbon Tray with SAAF blend media and MEGApleat® M8 to remove airborne particles, gaseous contaminants, virus, bacteria, fungus and molds to provide total clean air solution.
- Variable speed controls allow the system to run at lower speeds where less airflow is required.
- EC centrifugal fan with 10 speed control motor for optimum energy conservation. Quiet, energy-saving motorized impellers.
- Easy-to-move caster cart allows portable use from room to room, or remove from cart for operation as a fixed device.
- AstroPure comes with CE certification and comes with 1 inch puff panel
  - 2nd stage carbon tray for removal of odour and gaseous contaminants\*
  - Digital pressure gauge for pre-filter and HEPA filter and filter Replacement Alarm\*
  - UV light with timer\*

\*Optional features



Also available in ivory white.

## Advanced HEPA Filtration

The HEPA filter features a dual layer of our ePTFE membrane media commonly used in the Life Science industry for the most demanding applications. The pre-filter as standard is MERV 8. Both filters selected have the lowest resistance to airflow possible ensuring the lowest Total Cost of Ownership.



### Front View



### Rear View



EC Centrifugal Fan

MEGAcel® I  
with ePTFE Technology

UV Light

Carbon Tray

MEGApleat® M8

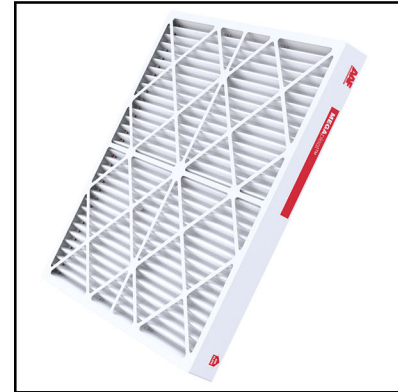




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### Pre Filter: MEGApleat® M8

- Long lasting MERV 8 (G4) pleated panel filter. Manufactured with a heavy duty galvanised metal support grid and moisture resistant adhesive.
- Low initial resistance requiring less energy consumption, resulting in lower operating costs and energy saving.
- Patent pending filter design guarantees consistent performance and is stronger, lasts longer and is more cost efficient.
- Proper pleat spacing ensures maximum efficiency, low resistance and maximises DHC.
- Designed for use in commercial, industrial and institutional applications. Ideal for turbulent air flow, heavy loading and high moisture.



### Carbon Tray

High performance carbon tray with SAAF blend media for odor control in galvanised steel frame

- Targets reactive compounds and volatile organic compounds.
- Removes toxic and impure gases by physical adsorption.
- Target contaminants include formaldehyde, hydrocarbons (VOCs), hydrogen sulphide, lower molecular weight aldehydes and organic acids, nitric oxide, nitrogen dioxide and sulfur dioxide.



### H14 HEPA Filter: MEGAcel® I

- ePTFE technology is proven to be more durable than microglass delivering superior performance.
- Superior durability and tensile strength, 84 times the pleated strength of microglass making it less prone to damage and leakages.
- Chemical resistant capabilities reduce media degradation in highly corrosive environments.
- Exceptional water resistance compared to ultrafine microglass.
- Ultra-low pressure drop of membrane leads to saving energy up to 50%\*
- High efficiency -Finer fiber diameter and denser structure, higher capture efficiency for ultramicro and nanoparticles and sustained efficiency at even higher velocity.
- India's only auto-scan tested HEPA filter according to EN1822 standards.
- Made in ISO 100,000 cleanroom and UL 900 certified.

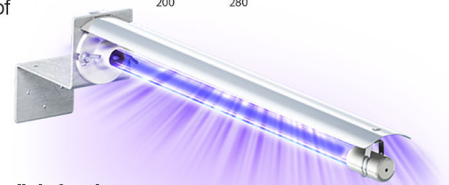
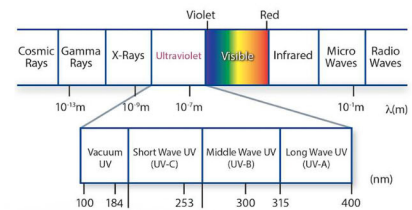


### UV Light

Broad-spectrum germicidal UV light which has wavelengths between 200 and 400 nanometers (nm), is highly effective at inactivating viral, bacterial and fungal organisms by destroying the molecular bonds that hold their DNA together so that they are unable to replicate and potentially cause disease.

- The entire UV spectrum is capable of inactivating microorganisms, but UV-C (wavelengths of 100 – 280 nm) provides the most germicidal effect. Roughly 95% of the energy produced by these lamps is radiated at a near-optimal wavelength of 253.7 nm.
- The majority of modern UVGI lamps create UV-C with an electrical discharge through a low-pressure gas (including mercury vapor) enclosed in a quartz tube, similar to fluorescent lamps.

Reference: ASHRAE - <https://www.ashrae.org/technical-resources/filtration-disinfection>





## Product Model Range

## Pathogen Deterrence and Clean Air Systematic

Name of Purification System	AP250	AP500	AP1000	AP2000
Type	Portable/standalone floor standing unit	Portable/standalone floor standing unit	Portable/standalone floor standing unit	Portable/standalone floor standing unit
Overall Dimension	1000 X 730 X 350 (H X W X D) mm	1000 X 730 X 500 (H X W X D) mm	1000 X 730 X 500 (H X W X D) mm	1600 X 760 X 655 (H X W X D) mm
Air Flow Capacity	250 CFM	500 CFM	1000 CFM	2000 CFM
Electricity and Power Consumption	230V / 1-Phase /50/60Hz / Class B (0.17 KW)	230V / 1-Phase /50/60Hz / Class B (0.32 KW)	230V / 1-Phase /50/60Hz / Class B (0.52 KW)	440V / 3-Phase /50/60Hz / Class B (1.30 KW)
Motor Type	EC Centrifugal Fan	EC Centrifugal Fan	EC Centrifugal Fan	EC Centrifugal Fan
Construction	Estimated shipment weight is 54 kgs	Estimated shipment weight is 65 kgs	Estimated shipment weight is 68 kgs	Estimated shipment weight is 120 kgs
Warranty Against Manufacturing Defects	1 Year	1 Year	1 Year	1 Year
Filtration Efficiency	99% (Integral)	99% (Integral)	99% (Integral)	99% (Integral)
Sound Level	<55 dB	<55 dB	<55 dB	<55 dB
Prefilter	MEGApleat M8 (594 X 287 X 44/46) mm	MEGApleat M8 (594 X 287 X 44/46) mm	MEGApleat M8 (594 X 287 X 44/46) mm	MEGApleat M8 (594 X 594 X 44/46) mm
Carbon Filter (Optional)	Carbon Tray with SAAF Blend Media (594 X 289 X 44) mm	Carbon Tray with SAAF Blend Media (594 X 289 X 44) mm	Carbon Tray with SAAF Blend Media (594 X 289 X 44) mm	Carbon Tray with SAAF Blend Media (594 X 594 X 44) mm
HEPA Filter	MEGAcel   ePTFE (594 X 287 X 292) mm	MEGAcel   ePTFE (594 X 287 X 292) mm	MEGAcel   ePTFE (594 X 287 X 292) mm	MEGAcel   ePTFE (594 X 594 X 292) mm

## Applications\*\*

### IAQ and Covid Protection

Hospitals / Pharmacy / Dental Clinics    Banks / Showrooms / Super Markets    Hotels / Clubs / Concierge Corridors / Conference Rooms    Warehouses    Malls & Multiplexes / Food Courts / Restaurants

Airports / Metro / Bus / Train Terminals    Gymnasium / Aerobics & Yoga Centres / Salons / Dance Clubs    Meeting Rooms / Banquets / Office Spaces / Large Halls    Schools & Colleges    Religious Buildings

\* Suitable for all Closed/Conditioned buildings

## Team Sync- AAF customised range

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Bringing clean air to life:

## For queries, email us at

support.aaf@sync-global.com

AAF has a policy of continuous product research and improvement and reserves the right to change design and specifications without notice.

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