

# MRSD Proposed Products

# PurAir®350C- Ceiling Mounted Commercial Air Purifier

How can we reduce pathogen transfer?

✓ Built in fan

✓ Pre-filter:

First-stage MEGApleat® M8 coarse panel filter is used to effectively remove indoor large particles, dust and hair.

✓ Carbon filter

Second-stage VariCel® RF/C gas filter can effectively remove indoor TVOC, odours, harmful gases, such as formaldehyde.

✓ HEPA filter:

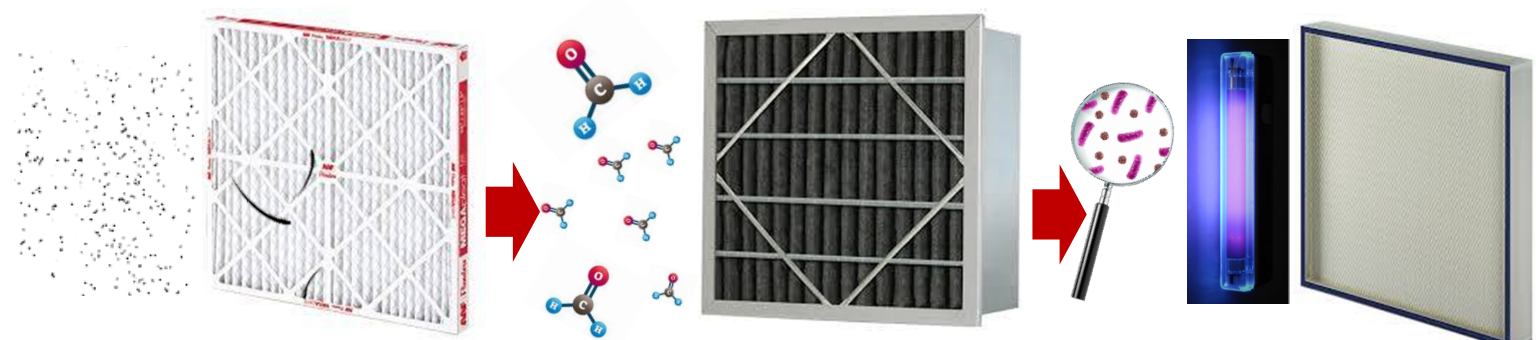
Third-stage AstroCel® II HEPA filter with UV light is able to remove particles of 0.3 microns and smaller particle sizes indoor fine particles which includes most bacteria and virus.

✓ UV Light:

UV light is highly effective at decontamination because it destroys the molecular bonds that hold together the DNA of viruses and bacteria.

✓ Airflow 450 CMH

✓ Area 25 sq.m. (6 ACH)



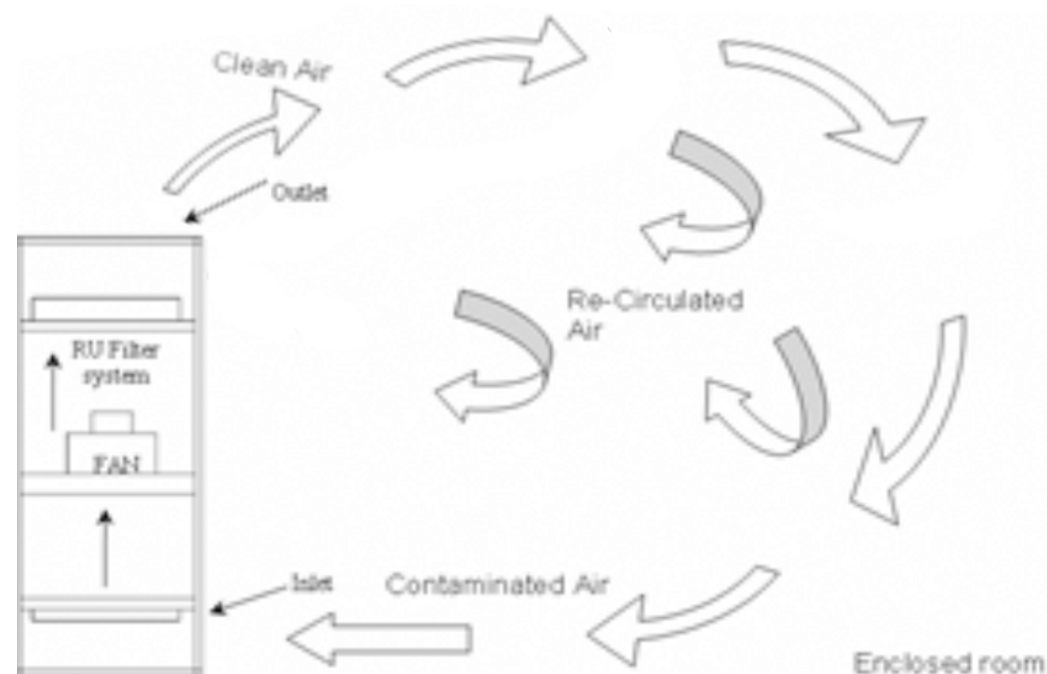
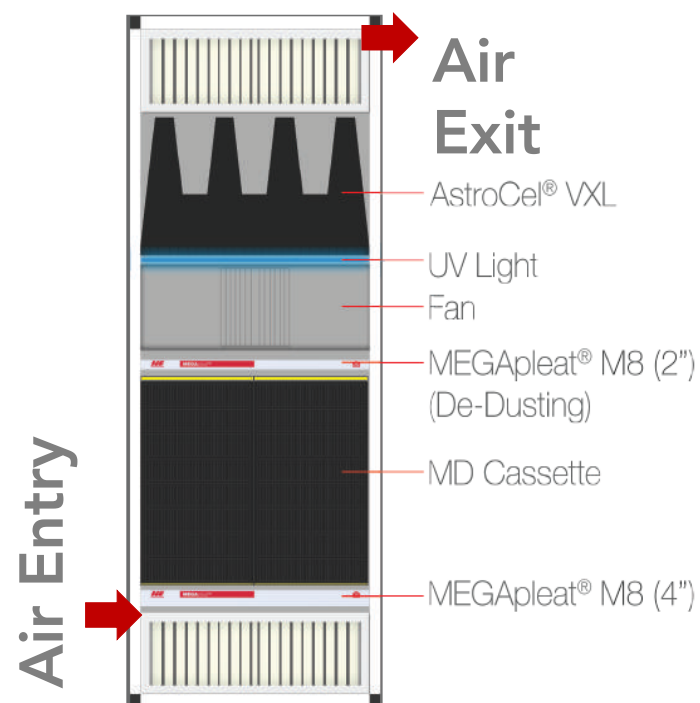
MEGApleat® M8  
Coarse panel filter

VariCel® RF/C  
Gas filter

AstroCel® II  
HEPA filter

# Recirculation Unit: A stand-alone Air Purification System

- ✓ A stand-alone complete air purification system to recirculate and clean the air in a controlled environment.
- ✓ It combines particulate, gas-phase and high efficiency filters to remove airborne particles, gaseous contaminants, virus, bacteria, fungus and molds to provide total clean air solution. Filtration stages can be customized.
- ✓ Pre-filter to prolong the life span of a higher efficiency filter, gas-phase filter to effectively remove odor problems, final filter to remove fine particles, virus, bacteria, fungus, molds with the efficiency of 99.99% at  $0.3\mu\text{m}$ . UV light optional.
- ✓ Size ranges from 500 – 4,000 cfm with double wall construction with VFD option.

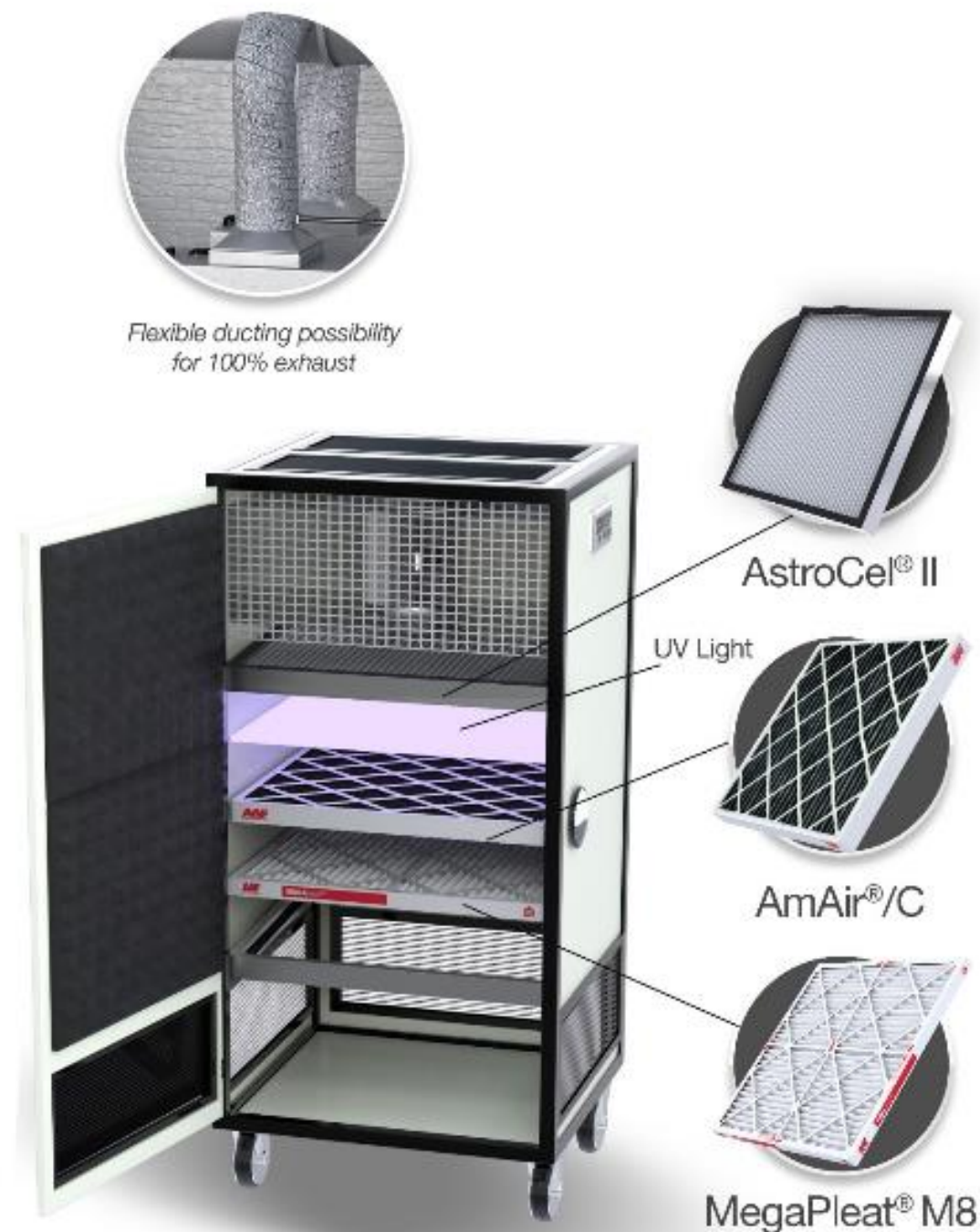




# Advanced HEPA Filtration – AstroPure 500

For healthcare facilities, isolation rooms and infection control areas

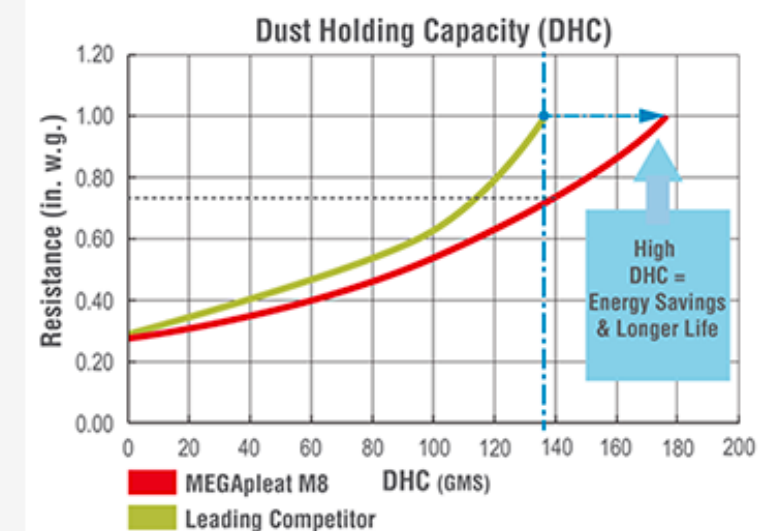
- ✓ Type: Portable / stand-alone floor standing unit
- ✓ Overall Dimension: 1298.5 x 800 x 714
- ✓ Air Flow Capacity: 500 CFM
- ✓ Electricity and Power Consumption 230 V / 1- Phase / 60 Hz  
/ IP54 / Class B (0.37KW)
- ✓ Motor: EC Centrifugal Fan
- ✓ Construction: PU Insulated casing with castor
- ✓ Overall Weight: Estimated Shipment weight is 54kg
- ✓ Warranty against Manufacturing Defects: 1 Year
- ✓ UV light: Germicidal lamp 200-280 nm
- ✓ System Efficiency: H14 99.995% at MPPS as per EN1822
- ✓ Sound Level: < 53.7dB





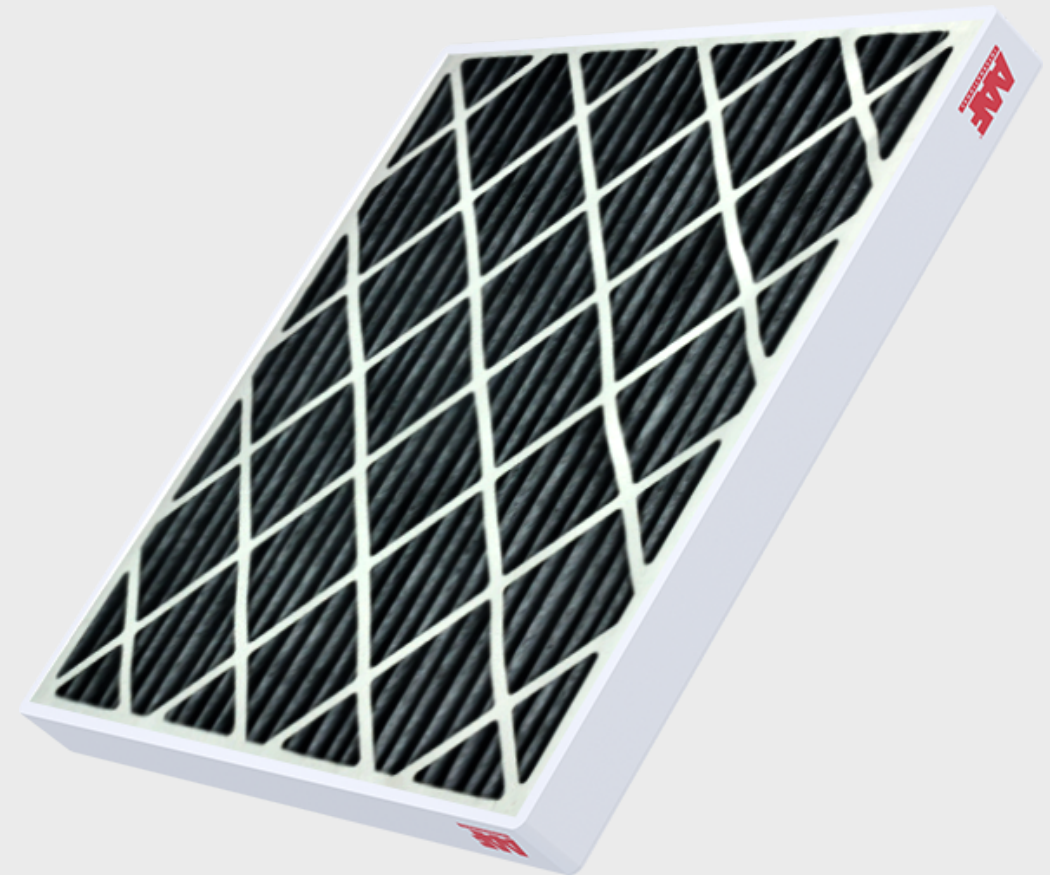
# MegaPleat M8 Pre-Filter

- Low operating resistance saves energy
- Highest dust holding capacity (DHC) = Longest life
- Highest breach strength = Strongest construction
- Guaranteed consistent performance – independent, third party testing
- Patent-pending filter design
- Heavy-duty, galvanized expanded metal support grid – no rust
- Moisture-resistant adhesive



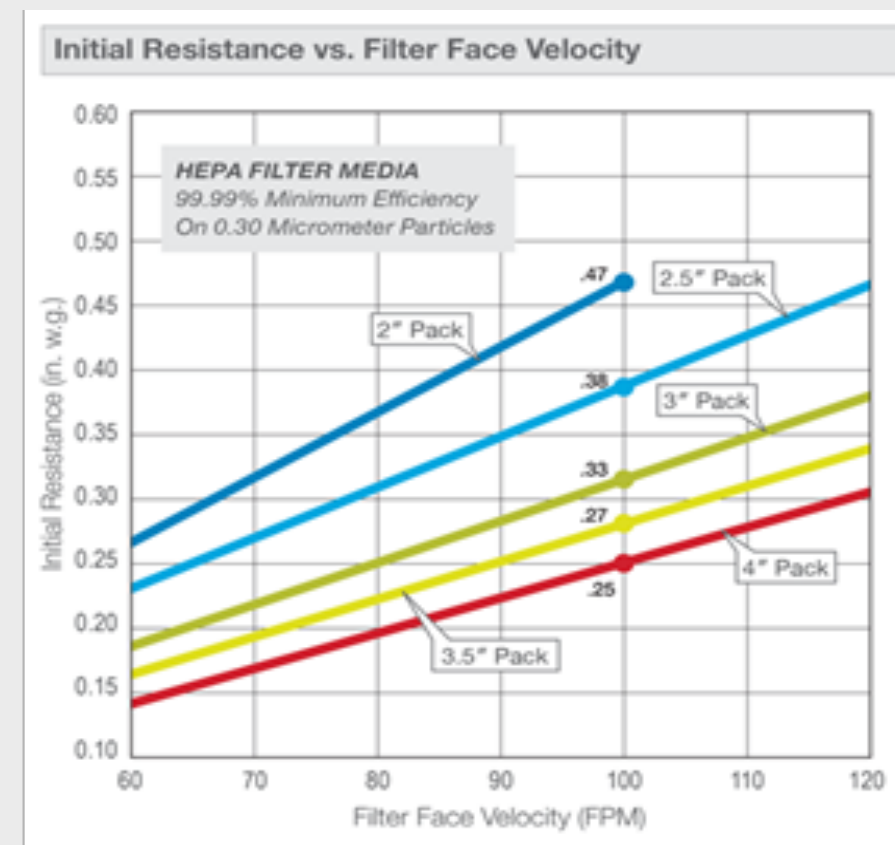
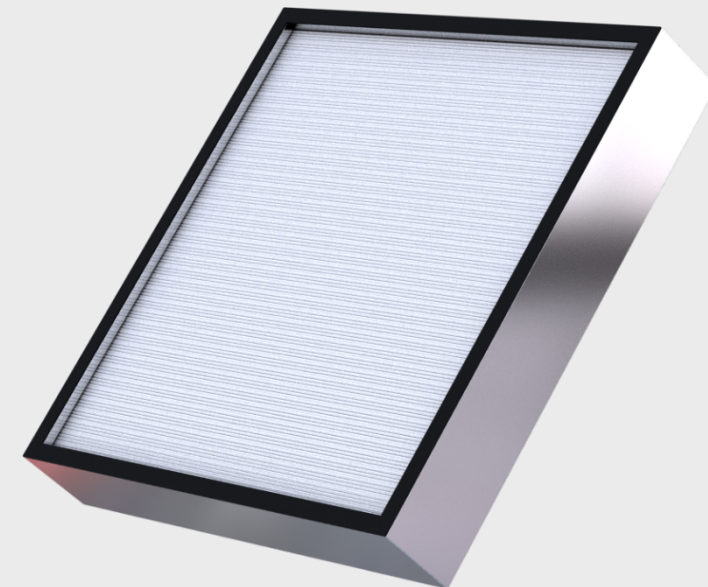
# AmAir/C Carbon Filter

- The easiest and most economical solution to many gaseous contaminant problems, including odors
- High chemical media density yields superior odor control
- MERV 7 particulate efficiency
- Directly interchangeable with standard air filters
- Available in pleats, panels, and pads
- 1", 2", and 4" pleated filters
- Disposable
- UL 900 classified



# Astrocel II HEPA Filter

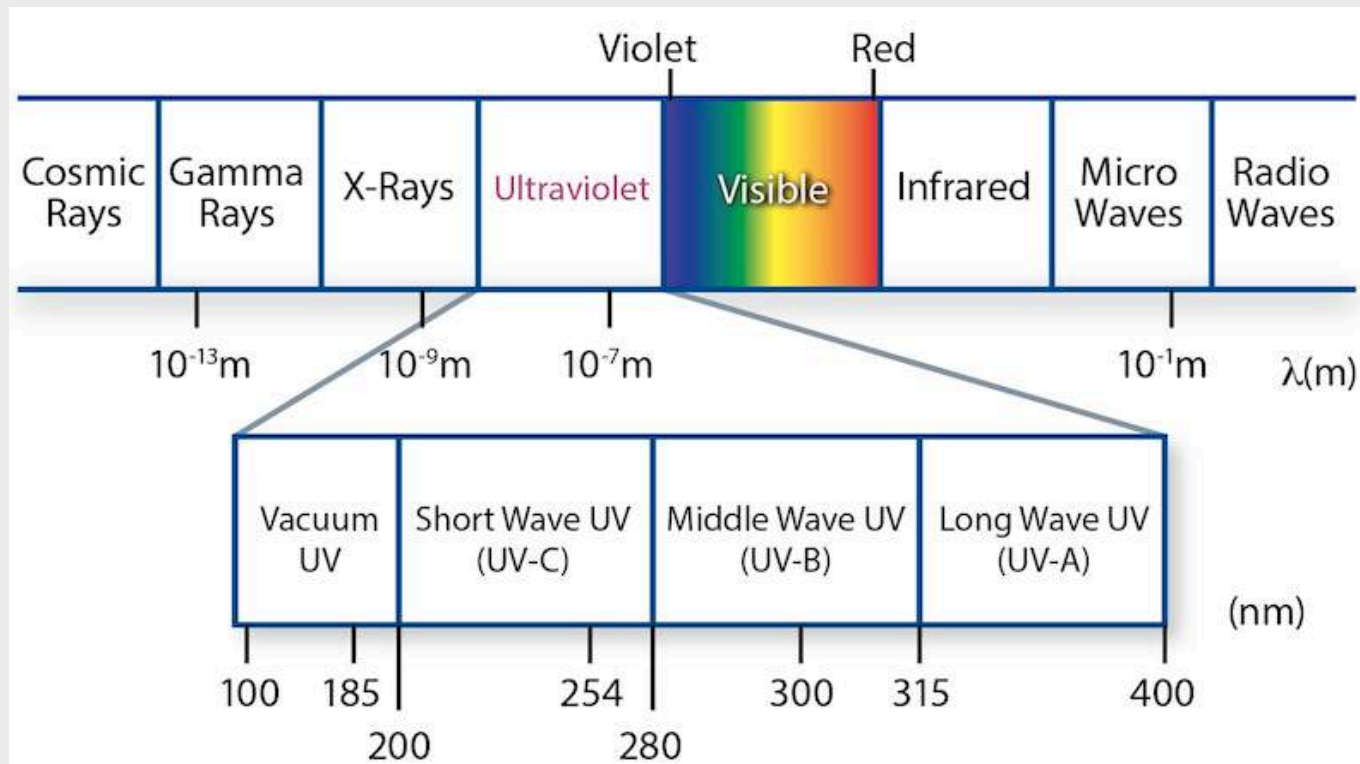
- H14 at 99.9995@MPPS
- Individually tested for certified performance
- Reduces operation costs with lowest possible pressure drop from microglass media
- Available in a range of efficiencies
- Lightweight and compact
- Auto-scan tested
- Manufactured, tested & packed in cleanroom (Class 100,000)





# UV Light

- Broad-spectrum germicidal UV light which has wavelengths between 200 and 400 nanometers (nm) is highly effective at killing bacteria and viruses by destroying the molecular bonds that hold their DNA together.
- UVC light also emits very short ultraviolet UV vacuum with wavelengths which creates ozone. It comes with a protective glass to block harmful UV wave lengths.



# Bag-In Bag-Out Housings / Safe Change Housings

- ✓ The Bag In / Bag Out (BIBO) side access filter system is a safe, simple, reliable method for removing contaminated particulate filters and/or gas absorbers in exhaust stream of hazardous environment. (Radioactive/ Pathogenic/Toxic)
- ✓ The return air should be equipped with the HEPA filter.
- ✓ It is strongly recommended to use BIBO unit in isolation room exhaust air.



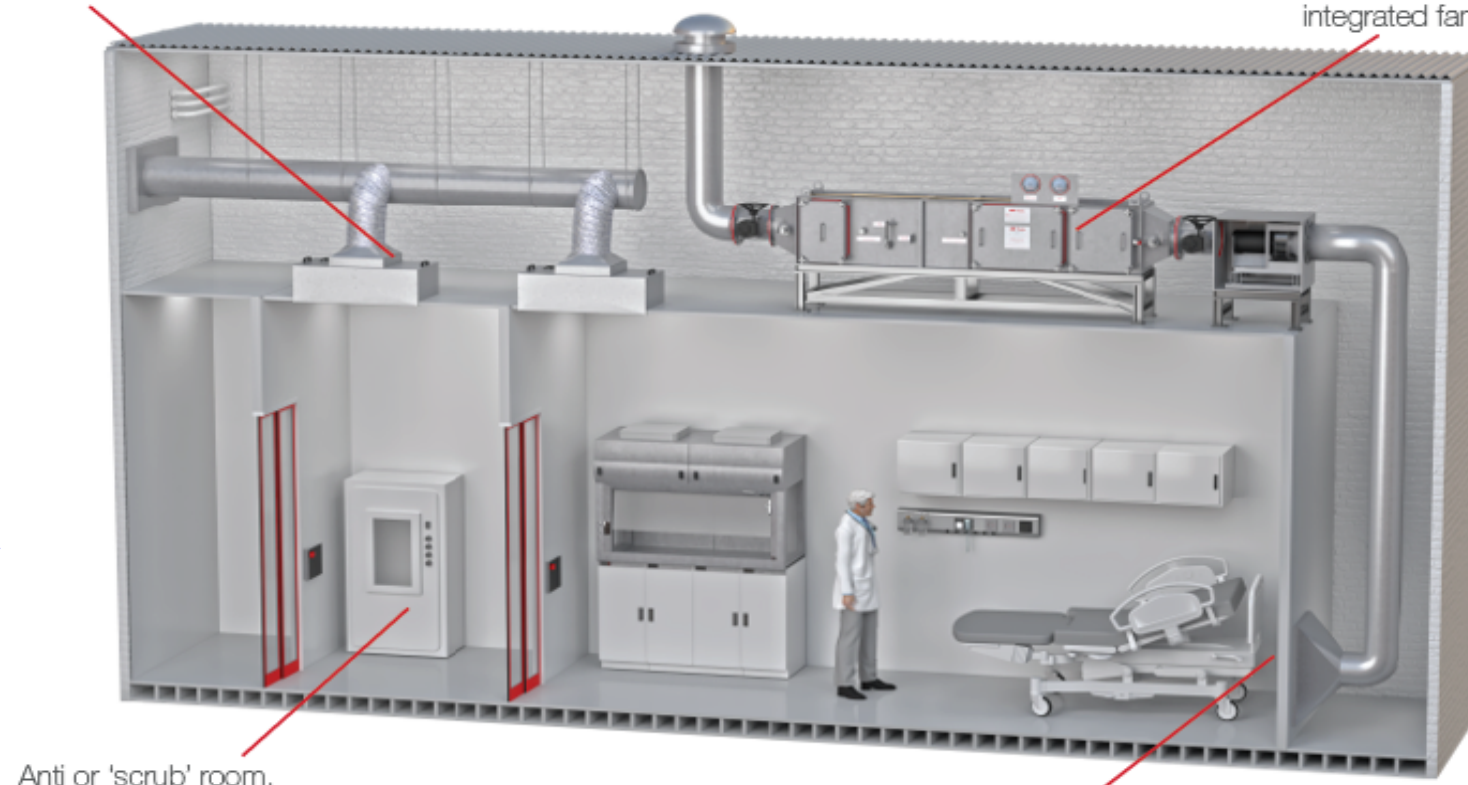
## Application of BIBO Units in Hospitals

- ✓ Isolation Rooms/Suites
- ✓ Infectious Disease Control
- ✓ Laboratory Exhaust
- ✓ Pharmacy
- ✓ Covid-19 test labs
- ✓ Video Link: <https://www.youtube.com/watch?v=4A-NIWQVW8w>

AstroHood 11-111  
Terminal Housing.

Isolation Room

AstroSafe Duct mounted BIBO  
(Skid Mounted Solution with  
integrated fan)



Anti or 'scrub' room.

HEPA (AstroSafe BIBO or Non BIBO filtered  
exhaust air local to the patient)

# Application Segments



## Occupant safety- Hospital stretcher

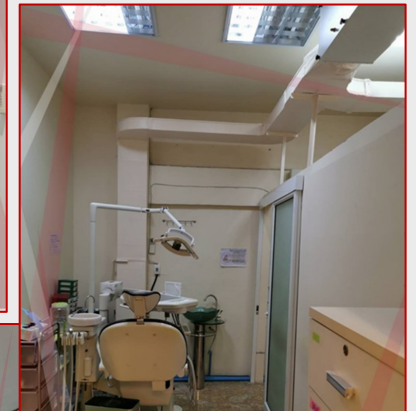
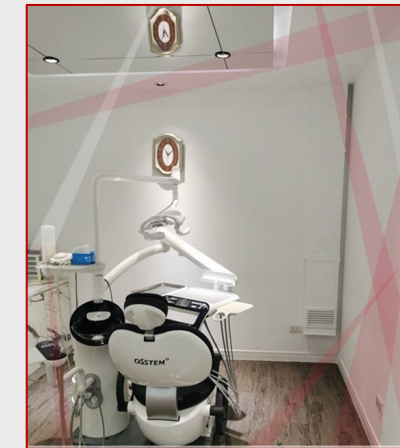


## Occupant safety- Ambulance



## Occupant safety- Mobile ICU vans

## Occupant safety- Dental clinics



## Occupant safety- Cosmetic surgery clinic

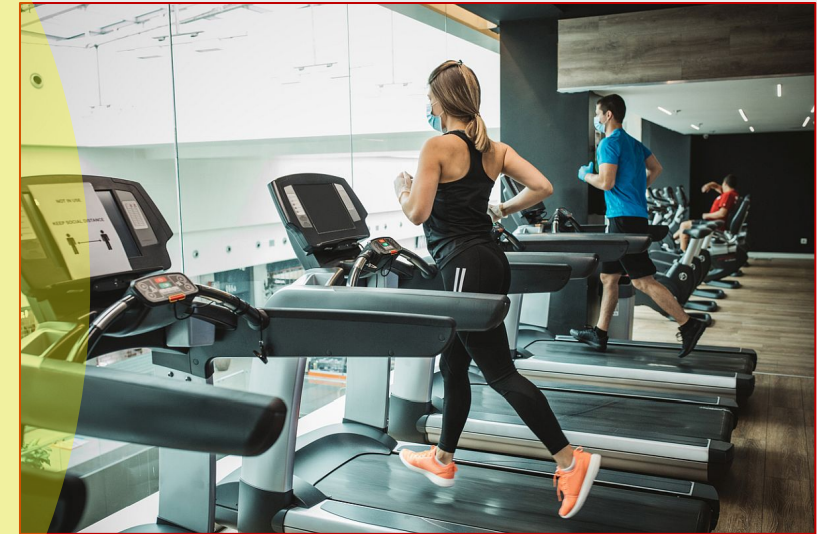




## Occupant safety- Embassies/Banks/Govt Building



## Occupant safety- Gyms



## Occupant safety- International schools/Universities



## Occupant safety- Cafes and Restaurant



## Occupant safety- Beauty salons



## Occupant safety- Key government buildings





Pure air is life.<sup>TM</sup>