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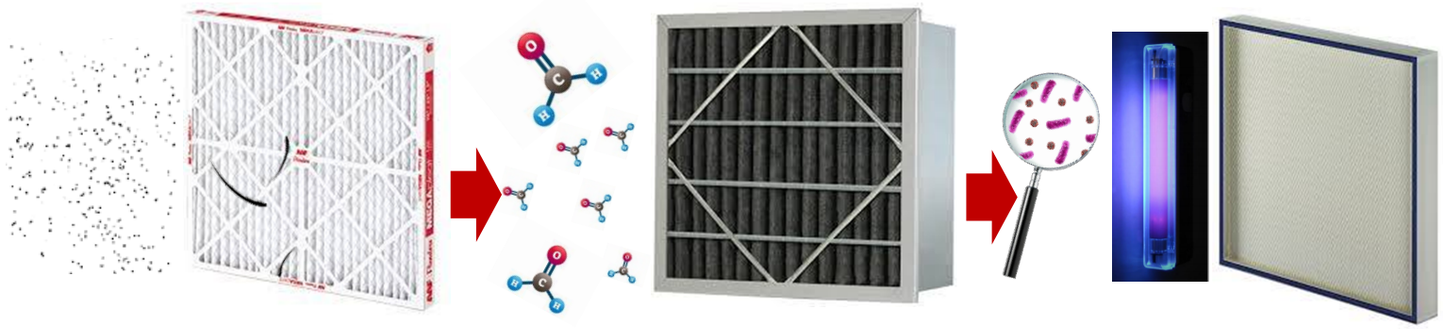
MRSD Proposed Products

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

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Ventilation of Healthcare Facilities

AAF's solution for healthcare facilities which has ducting system but without HEPA is installing PurAir®350C.

Right Airflow Direction, with PurAir®350C in their existing ducting system

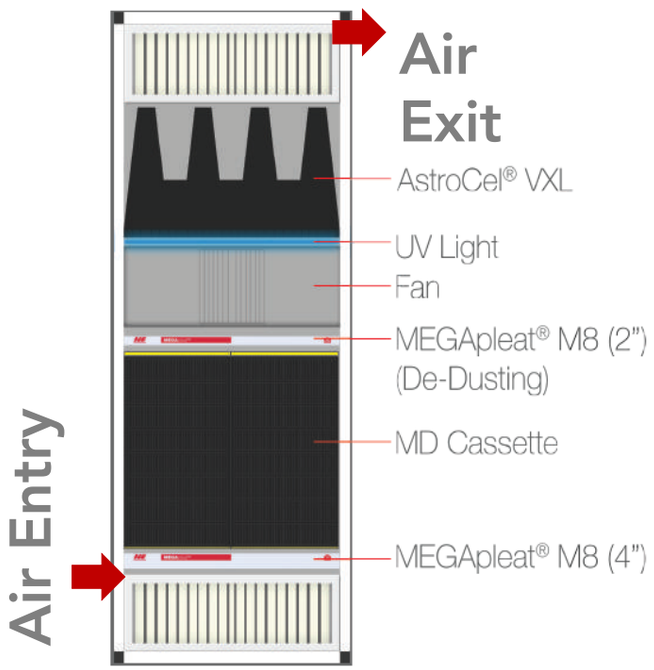
Ventilation of Healthcare Facilities

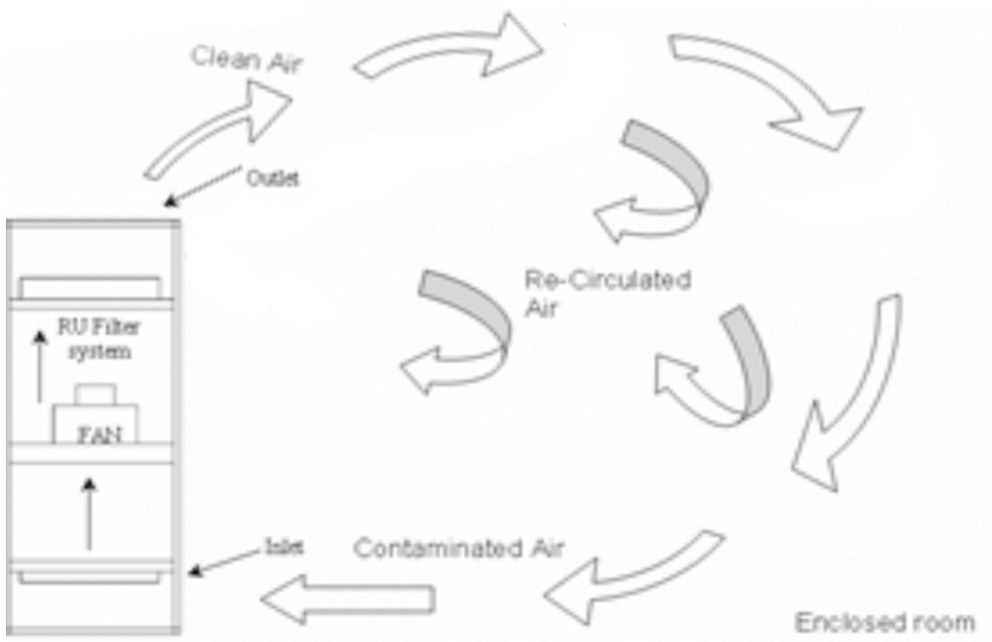
Right Airflow Direction, with PurAir®350C & additional ducting system

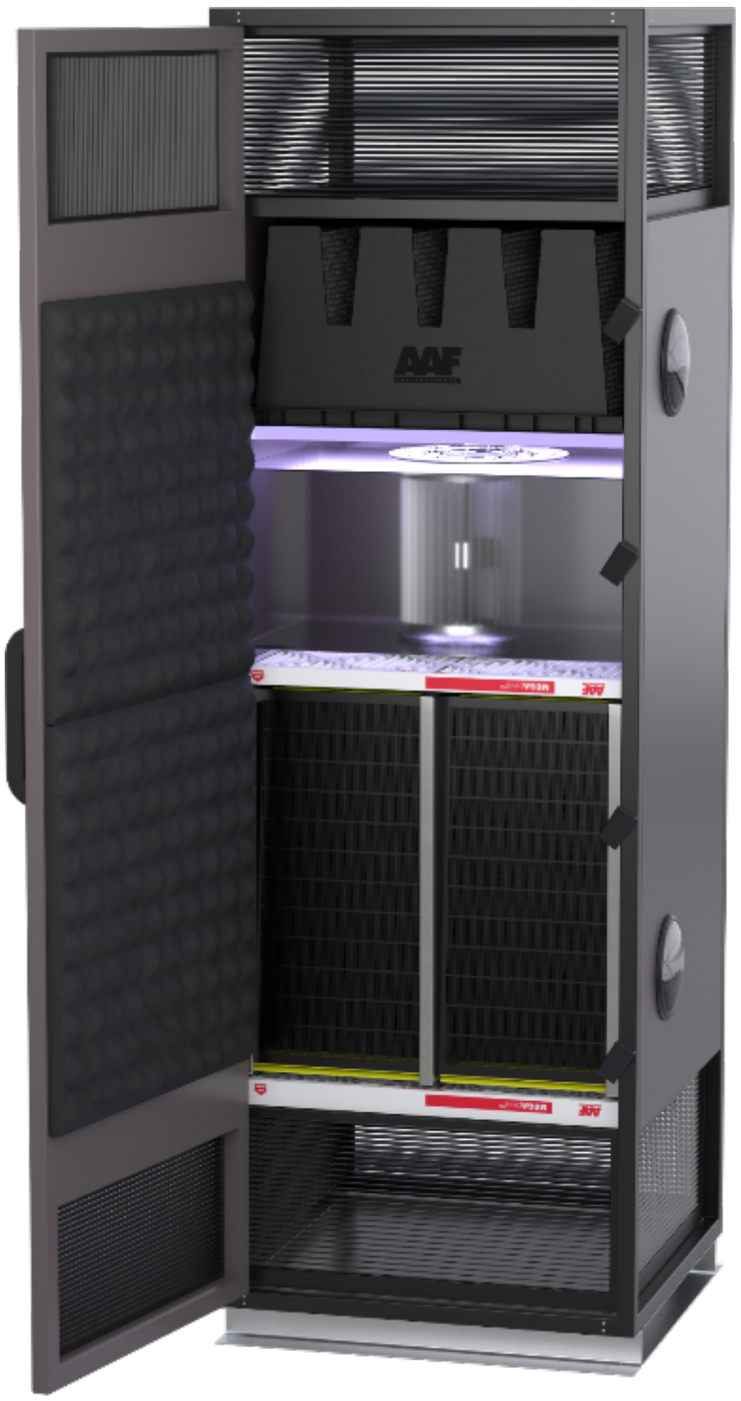
AAF's alternative solution for healthcare facilities that does NOT have a proper ducting system and without HEPA is by installing PurAir®350C from the waiting area with additional ducting system through the wall to the consultation room.

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 0.3µm. 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 Consumption230 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

Flexible ducting possibility for 100% exhaust

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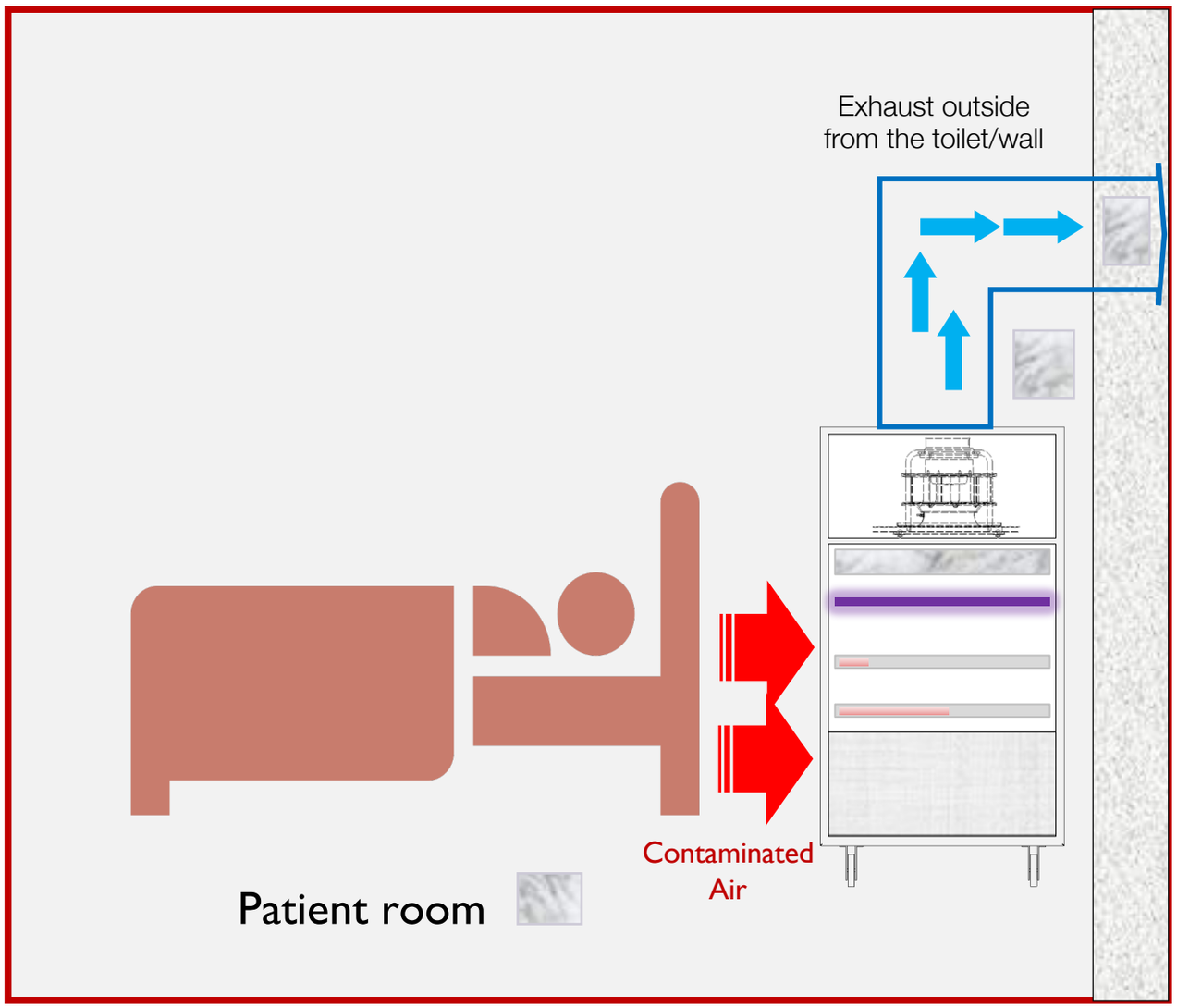
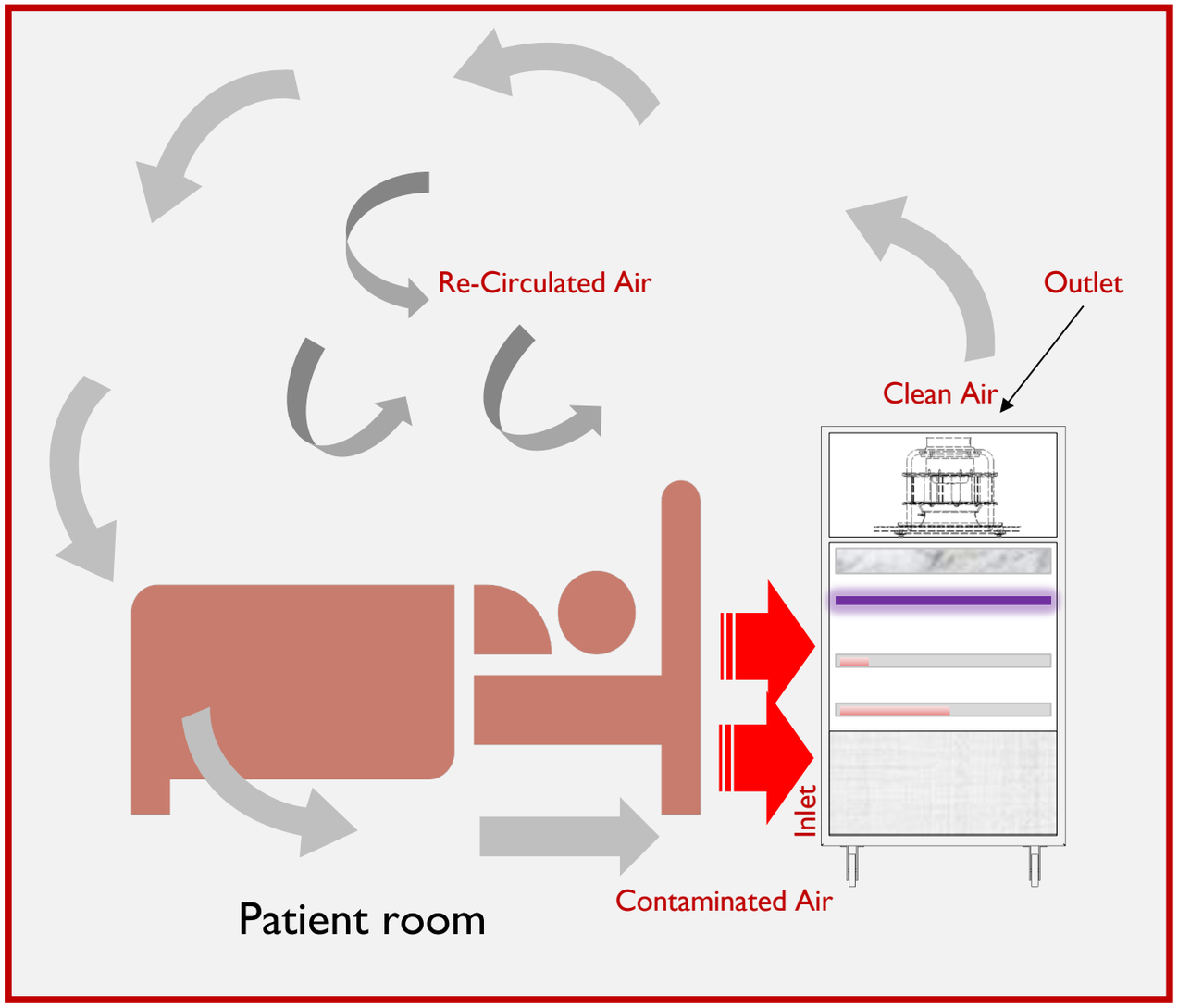
Advanced HEPA Filtration – AstroPure 500

For healthcare facilities, isolation rooms and infection control areas

Option 1 – Exhaust Air Outside

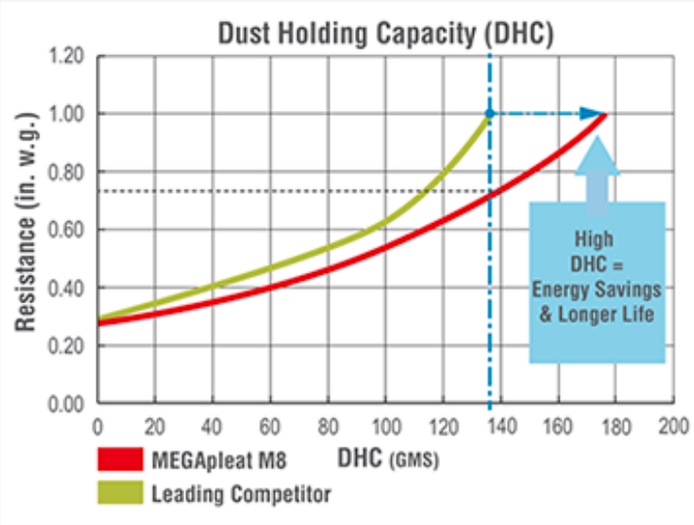


Option 2 – Re-Circulate Air



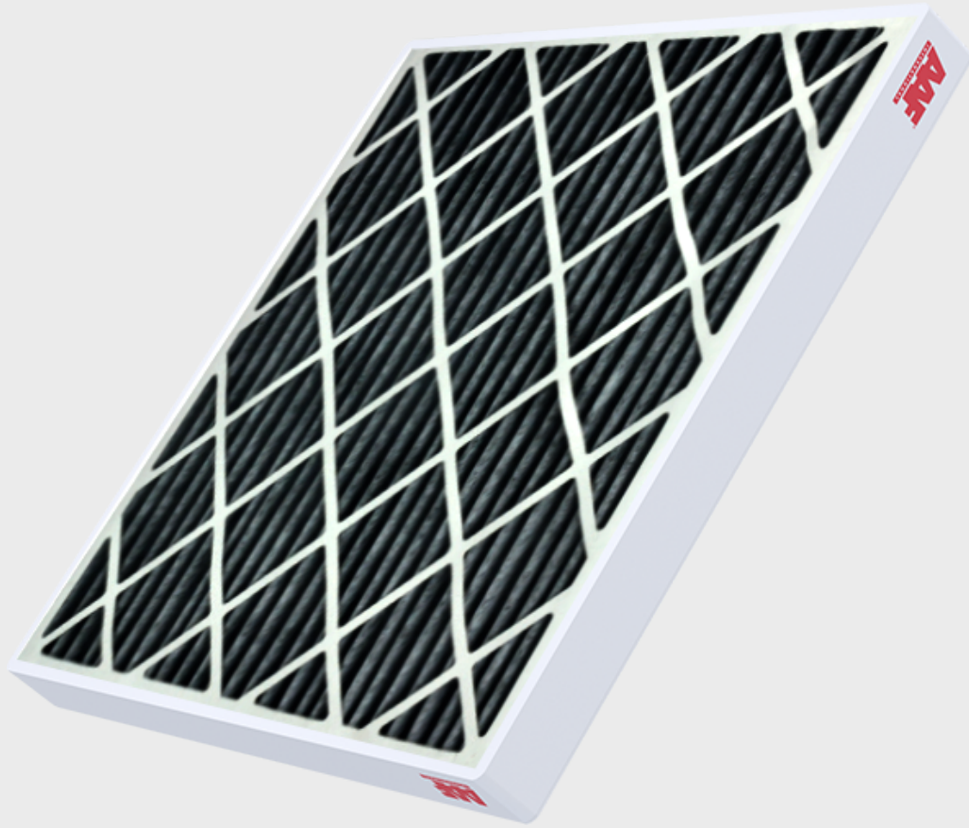
MegaPleat M8 Pre-Filter

- 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

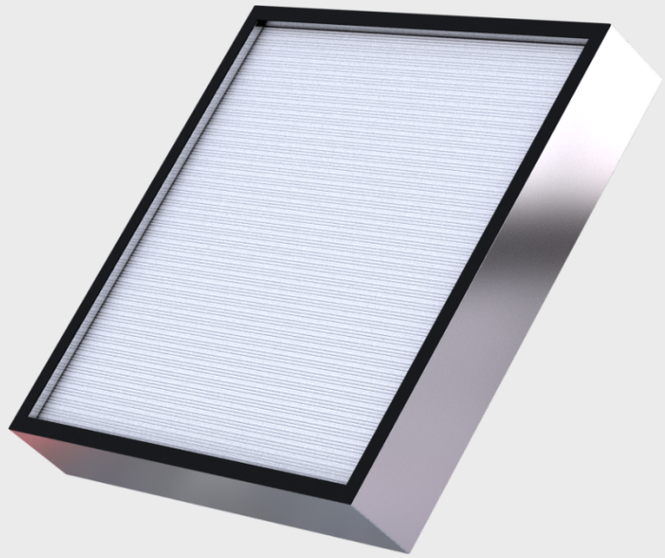


AmAir/C Carbon Filter

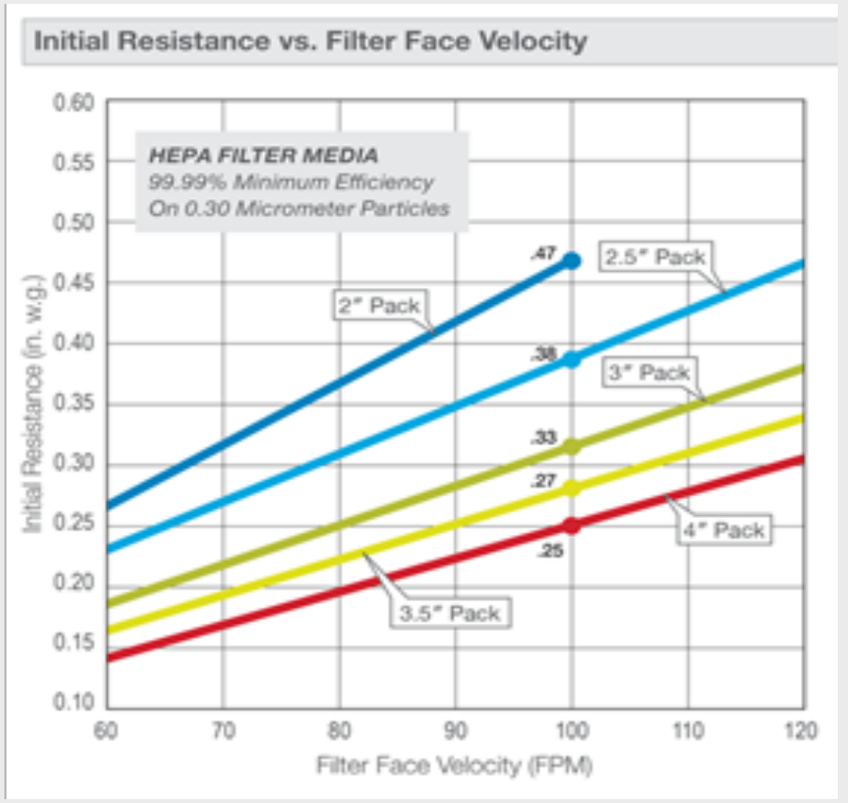
- The easiest and most economical solution to many gaseous contaminant problems, including odors
- High chemical media density yields superior odor control
- MERV 7 particulate efficiency
- Directly interchangeable with standard air filters
- Available in pleats, panels, and pads
- 1”, 2”, and 4” pleated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



Astrocel II HEPA Filter



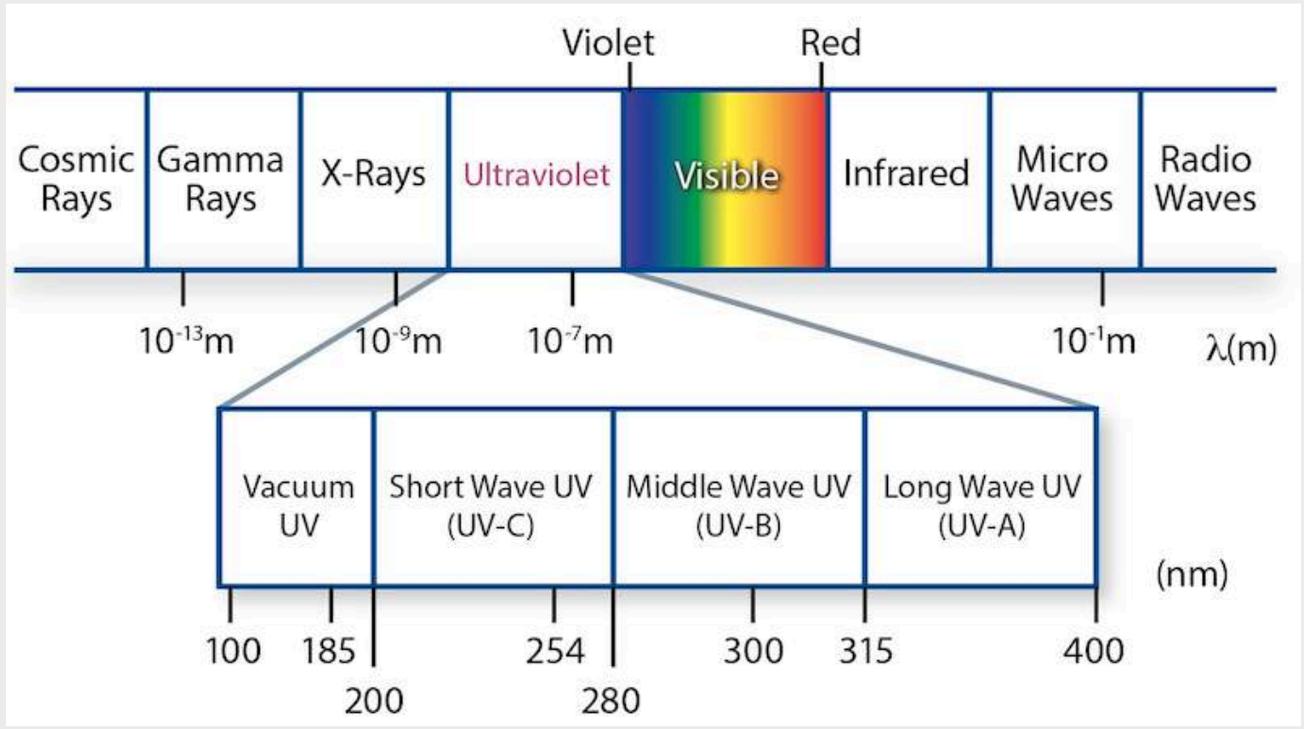
- H14 at 99.9995@MPPS
- Individually tested for certified performance
- Reduces operation coasts with lowest possible pressure drop from microglass media
- Available in a range of efficiencies
- Lightweight and compact
- Auto-scan tested
- Manufactured, tested & packed in cleanroom (Class 100,000)

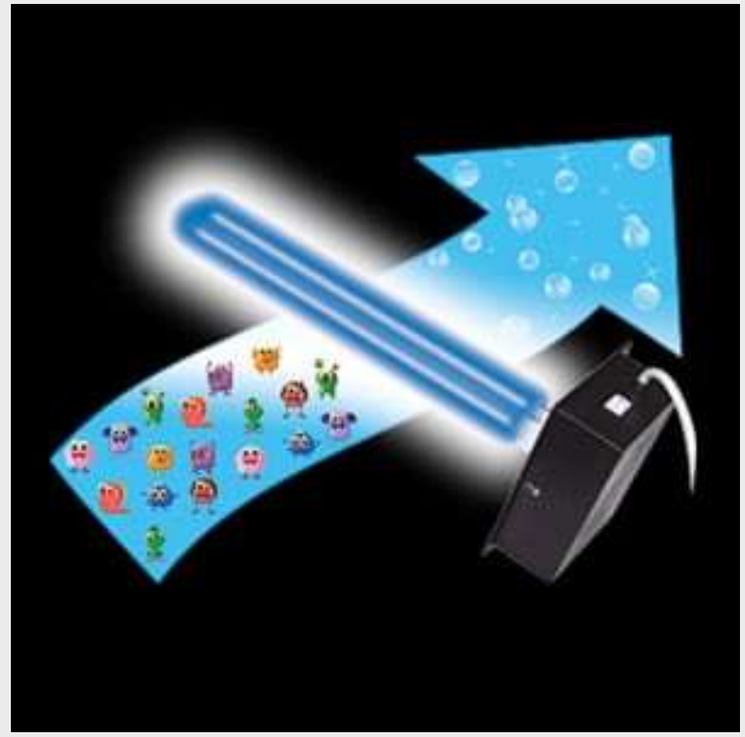


UV Light

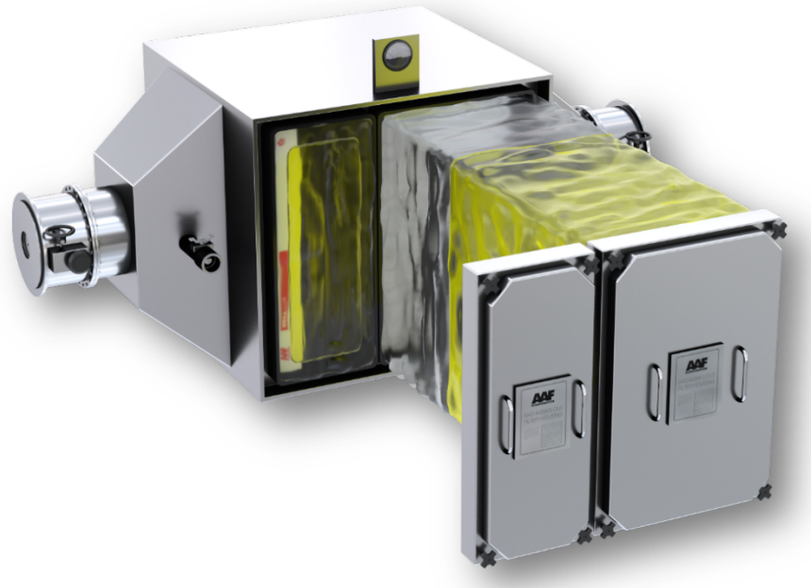
- Broad-spectrum germicidal UV light which has wavelengths between 200 and 400 nanometers (nm) is highly effective at killing bacteria and viruses by destroying the molecular bonds that hold their DNA together.

- 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.





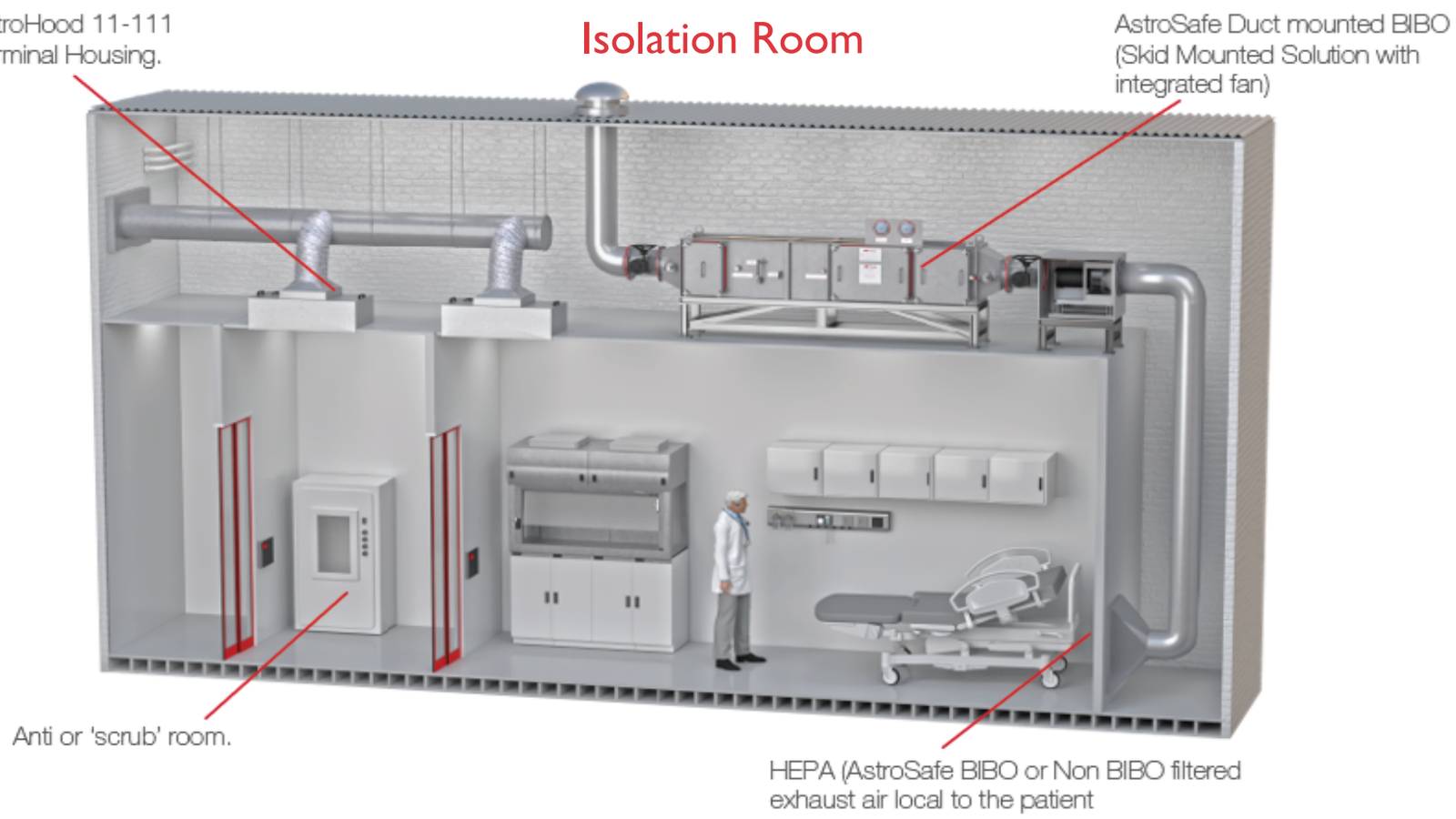
Bag-In Bag-Out
Housings / Safe Change Housings



- ✓ 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 us 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



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Application Segments

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Occupant safety- Hospital stretcher

Perfect protection-combination of PurAir 350C & Isolation stretcher, containing possible outbreak from transferring patients.

- The isolation stretcher contains the virus within the box, which has side pocket-holes allowing the medical staff to attend the patient without exposing themselves to the virus.

- The trapped contaminated air is drawn by PurAir 350C, ensuring clean air is released to the outside environment.

- Protect medical staffs from possible virus carriers during transferring patients.

https://youtu.be/4A-NIWQVW8w

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Occupant safety- Ambulance

AAF PurAir 350C are specifically designed to filter the air in the cabin and in the sanitary compartment of ambulances, removing 99.995% particulates corresponding to SARS/COVID-19 virus & effectively reducing the risk of infection.

- A quick ceiling-mounted structure design is suitable for pipelines and surface mounted environments. With upstream and downstream pressure drop detection port, it meets the professional site testing requirements

- The compact design of machine integrated with three-stage of high-performance filters can efficiently remove bacteria and viruses.

- Humanized automatic stop function when the opening cover to protect operator safety.

- Easy-to-replace air duct adapters at both ends for on-site installation.

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Occupant safety- Mobile ICU vans

Any discussion of ventilation for medical environments must include HEPA filtration. AAF PurAir 350C is the best infection control unit for mobile ICUs.

- The compact design of machine integrated with three-stage of high-performance filters can efficiently remove harmful gases, bacteria and viruses.
- The first-stage coarse panel filter is used to effectively remove indoor large particles.
- The second-stage gas-phase filter can effectively remove indoor TVOC, odors, harmful gases, such as formaldehyde.
- Third-stage HEPA filter can remove indoor fine particles such as PM2.5, PM1 and bacteria and virus.

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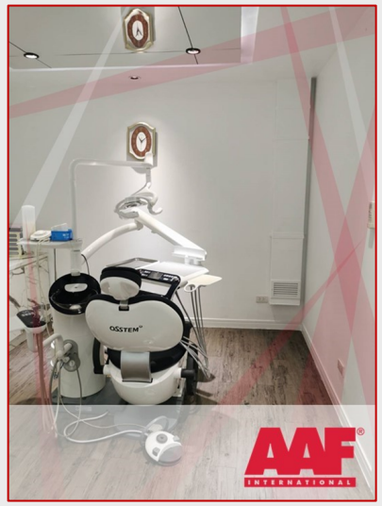
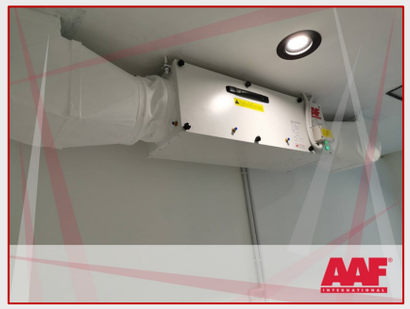
Occupant safety- Dental clinics

Dental clinics, labelled to be among high risk category for Covid-19 is due to the possible aerosol carriers of the virus to prevent cross infection & spread.

- Overall well-being and health of staff and dentists due to daily exposure
- Patient health
- Positive patient impression of the dental practice
- The UV-C wavelength of 253.7 (254nm) nanometers has been proven to be effective at neutralizing (inactivating) microorganisms.
- Using an Industrial infection control unit can definitely be considered as a safety measure as part of best dental practice.





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Occupant safety- Cosmetic surgery clinic

AAF recommends AstroPure 500 & RU units to provide aesthetic medicine physicians and their staff with a practical guide to safety considerations to support clinic preparedness for patients seeking nonsurgical aesthetic treatments and procedures.

- Lasers with increased plume, including laser tattoo removal and laser hair removal, are the procedures with the most concern with regards to viral particle or infection transmission.

- Infection risk is higher with these procedures because of plume and with depth of penetration of the laser, can release viral particles.

- Treatment room setup—preparing and securing treatment rooms for patient entry to contain office contamination and reduce overall potential COVID-19 exposure

https://youtu.be/7ztMqaqlXqc

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PurAir®350C

Real Time Installations

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Solution for Hospital

PurAir® 350C

PurAir® 350C

PurAir® 350C

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Solution for Hospital

Solution for Ambulance

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Solution for Hospital

PurAir1700T

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Solution for Hospital

PurAir1700T

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Solution for modular swab units

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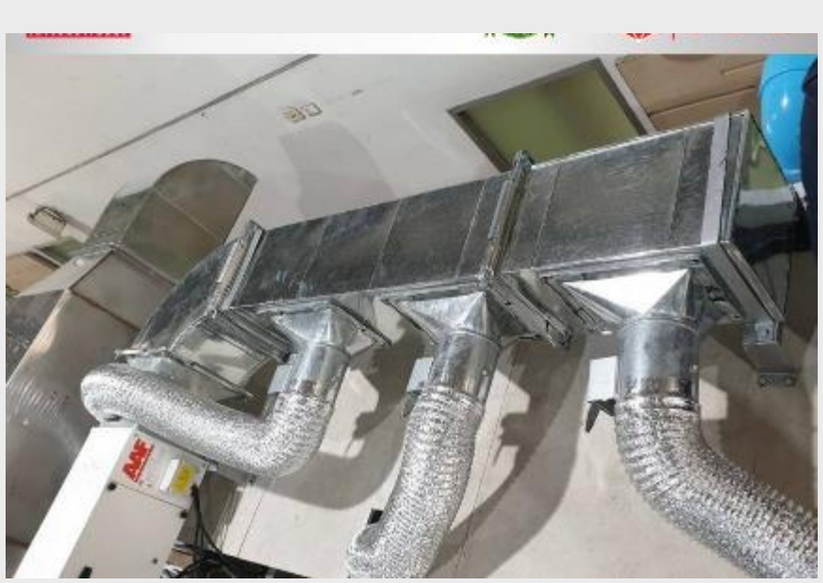
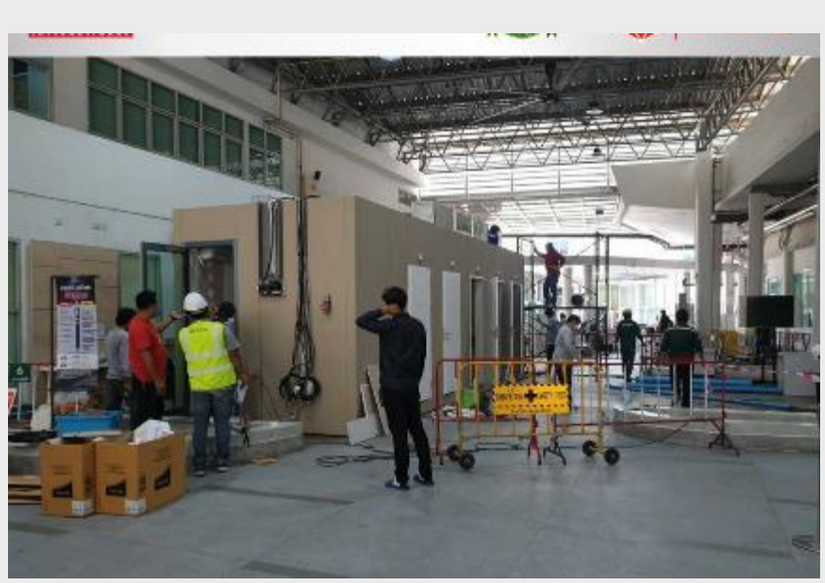
Solution for modular swab unit and tele-monitoring system





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Solution for Modular Screening and Swab Units

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Solution for Isolation Stretchers

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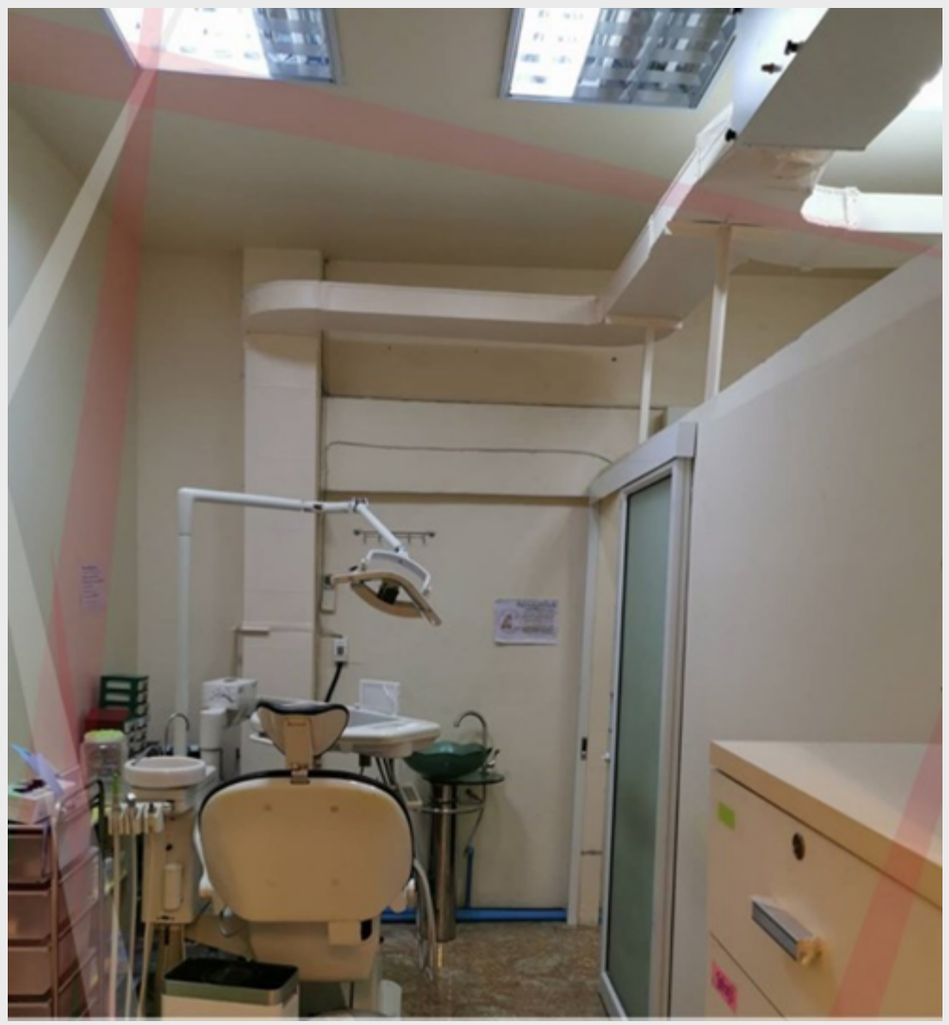
Solution for Dental Clinic



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Solution for Consultation Room

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Solution for Converting a Standard Lab into a COVID-19 Testing Lab

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