

# Steri-air<sub>FTSS</sub>

## Product Features

- A compact Environmental Decontamination System
- Modular design for easy adaptation to room air-flow dynamics
- Continuous filtration and decontamination modes
- Multi-stage mechanical filtration to trap 99.97% particles upto 0.3 microns
- TiO<sub>2</sub> photocatalyst for decontamination booster and removal of organic compounds
- Dual curved UV Lamps for germicidal effect
- Dual ACF for buffer VOC adsorption capacity
- Air decontamination using FTSS for maximum decontamination
- Continuous, on-line auditing of UV & HEPA
- Controller for programming and control as per user requirement



**Decontamination Module**  
Dimensions 22(w) x 29(d) x 29(h) cm



**Filtration Module**  
Dimensions 45(w) x 35(d) x 92(h) cm

## Product Specifications

- Weight: 20 Kg (approx.)
- Electrical : 220/250 Volts, 50 Hz, 1Kilo Watt (maximum)
- Fan air output : 430 (H)/ 300 (M)/ 200 (L) Cfm per hour
- HEPA filter: Efficiency : 99.97% @ 0.3 Microns
- Pre Filter : Traps particles upto 50micron (80-85% efficient).
- Dust purifying rate : 99%
- Formaldehyde purifying rate : 95%
- Benzene purifying rate : 99.8%
- Area recommended (3 M Height) :  $\geq 40 M^2$
- Mobile Floor / Wall Mounted, vibration free and shock proof body
- Noise Level : below 30dBA

- ◆ Burn units
- ◆ Cath lab
- ◆ Clean room
- ◆ Critical care
- ◆ C.S.S.D..
- ◆ Dental clinics
- ◆ Isolation areas
- ◆ IVF labs
- ◆ Laboratory
- ◆ Labour rooms
- ◆ Mortuary
- ◆ OPD area
- ◆ O.T.
- ◆ Transplant units
- ◆ Pediatric wards
- ◆ Radiology
- ◆ Radiotherapy
- ◆ Recovery

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## Environmental Decontamination System



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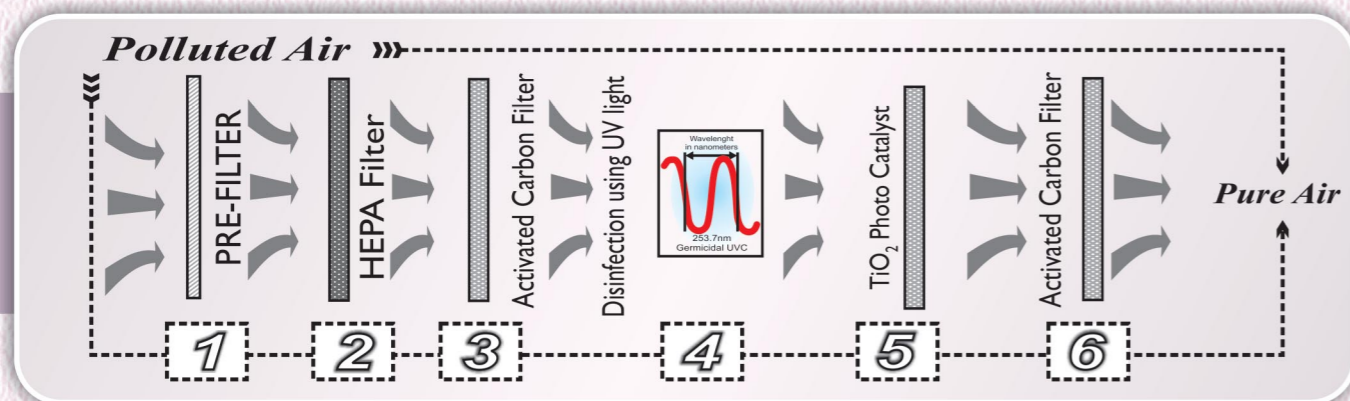


Distributor

# Steri-air FTSS

## Air Filtration Module

Steri-Air Ultima FTSS Air Filtration Module is designed to remove all particulate matter like hair, lint, pollen, dust etc. from indoor air using multiple stages of mechanical filtration. The module disinfects indoor air using HEPA Filter, UVGI (Ultra Violet Germicidal Irradiation) and nano TiO<sub>2</sub> Photo Catalytic Filter. This module also removes odor by adsorbing VOCs in the Activated Carbon Filter and decomposing them using TiO<sub>2</sub> Photo Catalytic Filter.



### Synthetic Pre Filter

- ◆ Traps particles upto 50μ, which includes hair, lint, insects, animal dander & other macro particles.

### HEPA Filter (High efficiency particulate arrester)

- ◆ Traps all particles / micro organisms above 0.3 microns in size (including the smallest bacteria-B.dimunita) at an efficiency of 99.97% allowing only pure air to pass through. The HEPA Filter is continuously monitored for its integrity as well as its efficacy.

### Activated Carbon Filter

- ◆ Removes odors, volatile organic compounds (VOC) like formaldehyde, CO, NO<sub>2</sub>, anesthetic agents (halogens), chloroform etc. The ACF is installed at dual stages for maximum efficiency.

### TiO<sub>2</sub> Photo Catalytic Filter

- ◆ In presence of UV radiation, high grade TiO<sub>2</sub> filter promotes photo-catalytic conversion of organic compounds like Volatile organic Compounds and micro-organisms.

### Air disinfection using - Ultra Violet Germicidal Irradiation (UVGI)

- ◆ At 253.7 nm the UV light destroys 90-99% of microorganisms by penetrating through their cell membrane & destroying their DNA. Two curved UV lamps are installed for maximum efficiency. The intensity of UV light is monitored on continuous basis for indicating UV change requirement.

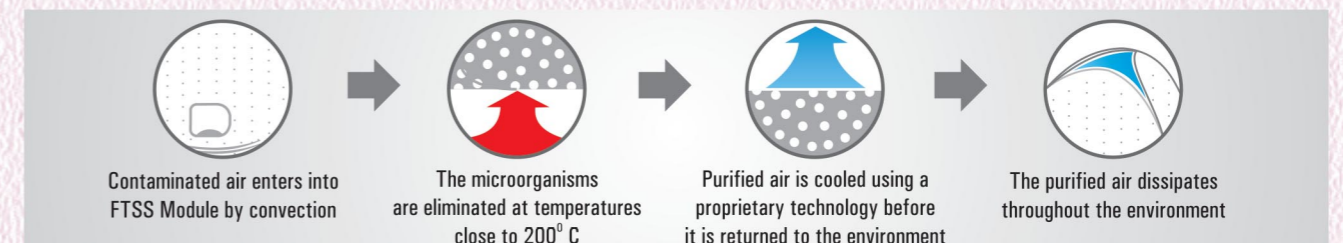
# Steri-air FTSS

## Decontamination Module

Steri-Air FTSS Air Decontamination Module uses the most advanced technology for air decontamination. It works on latest FTSS technology to destroy airborne bacteria, viruses, molds, organic allergens and all other air borne micro-organisms at a temperature of 200°C.

It does not use any toxic disinfectant or harmful gases like ozone.

The FTSS Module does not have any motors, pumps or fans making it completely silent and maintenance free.



## GUV Module

The system has Upper tract Germicidal Ultraviolet Irradiation.

Which adds to effective air changes in the ventilation system. The parabolic design of reflectors effectively directs the UV light in a controlled band.

Especially designed front reflectors prevent scattering of UV light which results in a collimated light.

Also, it keeps th UV light to the top 20% of the room.



## Controller

- ◆ IC based timers for 24 x 7 x 365 settings
- ◆ Daily and weekly timings
- ◆ Manual buttons for temporary override



Main Controller