



# HALCO PRODUCTS COMPANY

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HALCO  
PRODUCT  
INFORMATION

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## ***SterileAire 800***

### **Portable Self-Contained HEPA Filtration With UV-C Light**

**HALCO** portable in-room HEPA filtered and sterilization system. Used in hospitals, assisted living facilities, urgent care, dentist office, and areas with limited air circulation needing particulate removal and protection from viruses, bacteria, and pathogens.



Portable vertical space-saving design can be rolled from one room to another and plugs into a standard 115 volt wall outlet.

Variable speed, adjustable airflow, quiet operation for almost any environment.

High capacity HEPA air filter to remove 99.99% of particulate and pathogens.

Constructed of 16 Ga 304 stainless hospital-grade easily cleaned with locking swivel castors and controls

Motor blower assembly, direct drive, variable speed, UL and ETL recognized components (UL pending)

Sterile-Aire is designed to be maintenance-free and operable for years of dependable service

#### **■ APPLICATIONS:**

- Clinics
- Physician Offices
- Nursing Centers
- Correctional Facilities
- Dedicated Make-up Air for Isolation

#### **■ HOSPITAL APPLICATIONS:**

- Emergency Rooms
- Negative Pressure Rooms
- Intensive Care Units
- Renal Dialysis Rooms
- Bronchoscopy Rooms
- Sputum Induction

# HEPA Filtration System



## How it Works

ASHRAE is recommending MERV-13 filters to combat airborne pathogens. Our HEPA filter provides high-efficiency particulate air removal down to 99.97% efficiency at 0.5 micron particles. The SterileAire series of modules are designed to draw unfiltered air into the lower portion of the unit, passing through a cleanable prefilter past (optional) germicidal UV light then through high-capacity ULPA filter rated at 99.9995% effective on particles of 0.12 microns in size. Then discharged through perforated discharge grille optional supply air ducting into the space for germicidal protection.

## Description

The ULPA (Ultra High Efficiency Particulate Air) filter is designed and constructed from one continuous sheet of glass microfiber paper. This minipleated media is kept separated by mini glue strips for compact media design. The separation allows filtered air to pass through with a minimum of resistance while providing a maximum filter surface. ULPA filters feature low initial resistance with high dust holding capacities, resulting in longer filter life with lower maintenance costs.

A perimeter frame surrounds the filter pack. Special rubber base adhesive bonds the pack to the rigid frame forming a positive seal. Neoprene sponge gasket, (optional: knife edge) is positioned on the frame to provide an additional seal when the filter is installed.

All filters with an efficiency of 99.97% or higher are tested to meet or exceed Federal Standard 209E/ISO. Therefore, every filter with a minimum efficiency of 99.97% (optional ULPA 99.9995%) is guaranteed to be efficient in removing particles 0.3 microns in size or larger by PSL smoke test.

## Design & Construction

HALCO SterileAire filter modules are standardized on vertical or (optional) horizontal configuration. Each module is available in different CFM sizes and configurations. Various options are available when specified. Metal housings constructed of 304 stainless steel (316 optional).



## Options

- 316L in lieu of 304 stainless
- ECM motor remote addressable speed control
- Horizontal or vertical design
- Alternate voltage requirements
- Minihelic pressure gauge
- Keyed on/off switch
- Round duct collar for external connection
- UV-C germicidal bulbs

## Design & Usage

The Halco™ SterileAire module can be used as a positive pressure clean air supply or recirculating system in clinics, waiting rooms, hospital emergency rooms, or other confined areas. The SterileAire system can be designed as a pressurization module for a cleanroom or controlled environmental facility requiring variable speed makeup air filtration for protection. The Halco SterileAire system can also be used to create negative pressure systems for patient isolation areas suspected of having TB, SARS, COVID-19, or other infectious diseases.

## Portable & Small

The Sterile-Aire module can easily be rolled from one room to another, through doorways, and used in areas with limited floor space.

## Split Multi-Use Design

The Sterile-Aire module can be designed to create both negative pressure and recirculating air by adding in optional dampers for control of airflow.

## Portable Negative Pressure Use

The Sterile-Aire module can be designed for negative pressure and connecting the exhaust through a window or wall opening to allow isolation areas and HEPA filtration for safety.

## Adjustable Airflow Using ECM Variable Speed Motor

The Sterile-Aire module can be provided with a modulating ECM motor to operate airflow from 0% to 100% airflow requirement. Optional static monitoring and control can be added for your use.

## Size & Dimensions

HALCO offers 4 (four) standard sizes in various configurations to fit your specific needs. If you are unable to find a standard size to meet your requirements, custom size modules can be constructed to fit your needs as required.

## Recommended Room Air Change Requirements

Module	SterileAire 400				SterileAire 800			
	10'x8'x8'	12'x12'x8'	12'x15'x8'	15'x15'x8'	10'x8'x8'	12'x12'x8'	12'x15'x8'	15'x15'x8'
Room Dims.	10'x8'x8'	12'x12'x8'	12'x15'x8'	15'x15'x8'	10'x8'x8'	12'x12'x8'	12'x15'x8'	15'x15'x8'
Room Volume	640 ft <sup>3</sup>	1152 ft <sup>3</sup>	1440 ft <sup>3</sup>	1800 ft <sup>3</sup>	640 ft <sup>3</sup>	1152 ft <sup>3</sup>	1440 ft <sup>3</sup>	1800 ft <sup>3</sup>
Air Change Rate	37.5	20.84	16.67	13.34	75	41.68	33.34	26.67

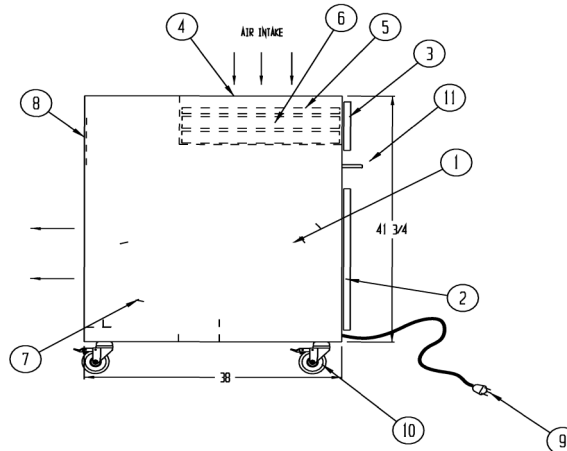
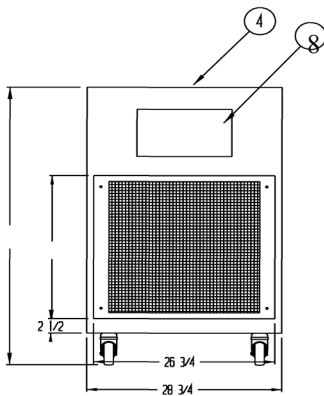
## Filter Certification & Testing Service

We offer a complete service to test and certify laminar flow equipment. You will be issued a certification once your equipment has been thoroughly tested and meets with IES #14644-1 (001.3). A Preventive Maintenance Test Program may be the best solution to assure you that your equipment is functioning to its capabilities and eliminate costly down time for malfunctioning systems. Call or write for more information concerning this service.

# SPECIFICATIONS

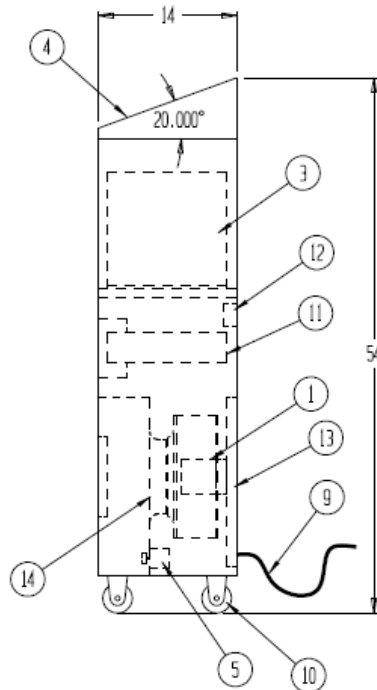
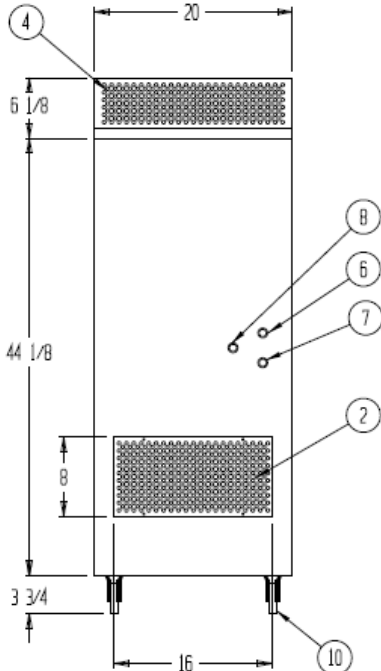


## 2000 CFM



- ① 1 EA. 10-10A DIRECT DRIVE BLOWER WITH 3/4 HP ECM MOTOR, 115 VOLT, 1 PHASE 9.5 FLA CAPABLE OF 2000 CFM @ 1.8" WC
- ② BLOWER SERVICE ACCESS DOOR
- ③ PRE-FILTER SERVICE ACCESS DOOR
- ④ PERFORATED AIR INLET GRILL
- ⑤ 1" THICK GROSS PARTICULATE AIR FILTER
- ⑥ 2" THICK PLEATED PRE FILTER, MERY 8
- ⑦ 24" X 24" X 11-1/2" V-CELL HIGH CAPACITY HEPA FILTER 99.99% EFFECTIVE ON PARTICLES OF 0.3 MICRONS IN SIZE
- ⑧ CONTROL PANEL WITH MAGNETIC GAUGE FOR OPERATION VERIFICATION AND HEPA FILTER LOADING, BLOWER CONTROL SWITCH, DIGITAL ECM SPEED CONTROL, PRE-FILTER AND HEPA FILTER CHANGE INDICATOR LIGHTS
- ⑨ 8 FT 115 VOLT, 15 AMP HOSPITAL GRADE POWER CORD
- ⑩ 4" DIA SWIVEL CASTERS WITH TOTAL LOCK BRAKES
- ⑪ 2EA 1/2" DIA PUSH HANDLES

## 800 CFM



- ① 310mm BACKWARD CURVED IMPELLER BLOWER CAPABLE OF 800 CFM @ 1.0" WC, 115 VOLT, 2.4 AMPS
- ② 16" X 8" AIR INTAKE GRILL WITH 1" THICK WASHABLE FOAM PRE FILTER
- ③ 12" X 18" X 11-1/2" HIGH CAPACITY ULPA FILTER 99.9995% EFFECTIVE ON PARTICLES OF 0.12 MICRONS IN SIZE
- ④ REMOVABLE PERFORATED SLOPED TOP FOR FILTER SERVICE ACCESS
- ⑤ ELECTRONIC BLOWER SPEED CONTROL
- ⑥ BLOWER CONTROL SWITCH WITH INDICATOR LIGHT
- ⑦ GERMICIDAL UV LIGHT CONTROL SWITCH WITH INDICATOR (OPTIONAL)
- ⑧ FILTER CHANGE INDICATOR LIGHT (OPTIONAL)
- ⑨ 8 FT 115 VOLT, 15 AMP POWER CORD
- ⑩ 3" DIA LOCKING SWIVEL CASTERS
- ⑪ GERMICIDAL UV LIGHT (OPTIONAL)
- ⑫ PRESSURE SWITCH FOR FILTER LOADING (OPTIONAL)
- ⑬ REMOVABLE BLOWER SERVICE ACCESS PANEL
- ⑭ GUARDED BLOWER INLET



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