

ENVIRCO IsoClean® CM

Portable, self-contained High-Efficiency Particulate Air (HEPA) filtration system with optional UV-C light.



ENVIRCO IsoClean CM Portable HEPA Air Cleaning System

The IsoClean CM is a portable, in-room air cleaning system that significantly improves indoor air quality. Each IsoClean CM comes equipped with two air filters; a MERV-8 anti-microbial prefilter to capture large pollutants and a high capacity HEPA filter that has efficiency to capture 99.97% of air contaminants @ .3 microns. Engineered to provide the optimum combination of efficient HEPA air cleaning with multiple air changes per hour, the unit helps minimize the spread of airborne diseases. The unit has an efficient variable speed centrifugal blower with adjustable fan speeds to control the number of air changes per hour.

How It Works

The IsoClean CM is designed to draw unfiltered air into the lower portion of the unit. The air passes through a 2 inch antimicrobial prefilter before passing through a 99.97% efficient high capacity HEPA filter. ASHRAE is currently recommending a MERV 13 rating to combat airborne pathogens. HEPA filtration provides an even greater line of defense. The IsoClean CM provides a large number of air changes per hour to continually improve indoor air quality.

Features

Airflow range from 400 to 1700 CFM (680-2888 m3/hr)
6 room changes per hour (ACH) in 1700 sq. ft. room
Quiet operation and simple maintenance
High capacity HEPA filter with 99.97% efficiency at 0.3 micron
Corrosion-resistant polyurethane enamel finish
Simple set-point adjustment digital display
LED indicator for operation and filter replacement
Direct drive electronically commutated Motor/Blower assembly
Optional UV-C light rated at 9000 hours

Room Air Changes Per Hour

Provides 6 room air changes per hour (ACH) in a 1700 sq. ft. space or 12 room air changes in a 850 sq. ft. space. Assumes 10 foot high ceilings.

Low Cost Isolation Room

An easy and economical solution for creating a negative pressure, isolation room. Simply roll the IsoClean CM into a standard room, connect a flexible ducting to the optional 14 in. (355 mm) collar on the top of the unit and vent the purified air to the exterior through a window or wall.

Portable, Vertical Footprint

The IsoClean CM can be rolled from one room to another and easily fits into areas with limited floor space. The 120 volt unit plugs into a standard wall receptacle.

Variable-Speed Adjustable Airflow

The IsoClean CM provides effective air filtration for a wide variety of room sizes with airflow ranging from 400 to 1700 CFM (680-2888 m3/hr).

Quiet Operation

Designed to produce a very low operating noise level to work efficiently in almost any environment. Adjustable fan speed allows for reduced sound level as the airflow is reduced. At minimum airflow, the sound level is a negligible 48 dBA. At maximum airflow, the sound level is 69 dBA. A normal conversation at 3 feet away is approximately 65dBA.

High Capacity HEPA Air Filter

The HEPA filter is tested for efficiency utilizing non-toxic polyalphaolefin (PAO) to ensure that every filter meets the required efficiency specifications.

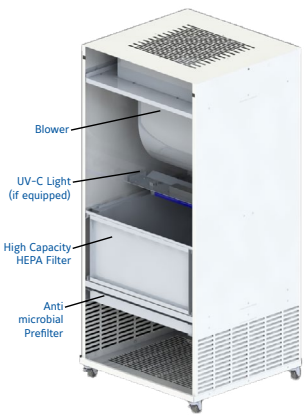
Contact Us for More Information

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ENVIRCO IsoClean® CM

Data specifications, product features, applications air change rates and contact information.



Model		IsoClean CM	
Description		120V with UV	120V
Part No.		T272000-002UV	T272000-002
Dimension Inches (mm)	Height	57.75 Inches (1397)	
	Width	26.18 inches (635)	
	Depth	24.75 inches (635)	
UL Listed (E152685)		Pending	Pending
Airflow CFM (m3/hr)		Variable speed Minimum CFM: 400 (679) ±10% Maximum CFM: 1700 (2888) ±10%	
Power Requirements		10.2 Amps @ 120V/ 60 Hz	TBD Amps @ 120V/ 60 Hz
Unit Weight lbs. (kg.)		148 (67)	150 (68)
Shipping Weight lbs. (kg.)		173 (79)	175 (80)
Shipping Dimensions inches (mm)	Height	65.75 (1670)	
	Width	28.75 (730)	
	Depth	27.25 (692)	

Model		IsoClean CM			
Room Dims.	10'x'8'x8'	12'x12'x8'	12'x15'x8'	15'x15'x8'	
Room Volume	800 ft³	1152 ft³	1440 ft³	1800 ft³	
Air Change Rate	121 - 127	80 - 88	69 - 75	48 - 56	

Applications
Auditoriums
Medical/Dental/Physician Offices
Fitness Centers
Restaurants/Bars
Correctional Facilities
Classrooms & Dormitories
Shelters & Rehab Facilities
Manufacturing Plants

Chassis Construction

Powder-coated steel plenum and filter housing with a corrosion-resistant polyurethane enamel finish. Four 2" (51 mm) casters, two locking.

Main Filter

High capacity HEPA type, with a minimum efficiency of 99.97% @ 0.3 micron. Accessible through a large removable access panel for maximum serviceability.

Prefilter

2 inch, disposable MERV-8, anti-microbial filter.

Air Discharge

Located on top of the unit and allows the addition of a discharge air duct collar for 100% exhaust applications.

Motor/Blower Assembly

Direct drive, continuous duty, 1HP, variable-speed, electronically commutated motor with sealed-for-life bearings and inherent overload protection located on the "clean side" of the filter.

Warranty

Limited 1-year warranty

Controls

On/Off switch and motor controller located on left side of unit allows simple set-point adjustment and a digital display indicates current motor speed. A green LED indicates normal operation. A red LED provides indication when filters need to be changed.

Electrical

Standard 5-15P, 115-V, single phase, rubber-covered cord with 3-prong grounded plug (115V Model).

UL Listing

UL 507 (listing pending).

UV-C Light (optional)

UV-C light operates continuously while the unit is in operation. The bulb has a wavelength of 254 nm with specs of 15.9W, .34A, and 4.9W of UV-C at 100 hours. Bulb is rated at 9000 hours.

Options/Accessories

- UV-C Sanitizing Light
- Carbon Prefilter
- 100% Exhaust Duct Collar
- Directional Discharge Kit
- Room Pressure Monitor
- Annunciator

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