

TECHNICAL ENGINEERING SPECIFICATION

■ Introduction

The Hospi-Gard® IsoClean® CM is a self-contained, ceiling mounted, high efficiency particulate air (HEPA) filtration system designed to easily and economically create a negative pressure isolation room that will meet OSHA and CDC TB guidelines. The IsoClean CM mounts easily into a ceiling grid to simplify the conversion of a standard room into a negative pressure isolation room for possible use with patients known or suspected of having TB, SARS or other infectious diseases.

The air passing through the HEPA filter is cleansed of 99.99% of airborne particulates as small as 0.3 micron and may be exhausted directly to the exterior by attaching flexible ducting to an optional 294mm duct collar positioned on the top of the unit.

The IsoClean CM filter contains 20.44m² of media to extend the usable lifetime before filter loading occurs, resulting in decreased cost and fewer filter changes.



Hospi-Gard® IsoClean® CM

■ Standard Features

Low Cost Isolation Room

The IsoClean CM easily and economically converts a standard room into a negative pressure, patient isolation room without major room renovations.

Adjustable Airflow

With variable speeds, and maximum volume of 1190 m³/h, the IsoClean CM provides effective air filtration for a wide variety of room sizes.

Room Air Changes Per Hour

Provides up to 24 room air changes per hour (ACH) in a typical 5.2 x 3.5 x 2.35m patient room or 12 ACH for rooms up to 100m³.

Space Saving Ceiling Mounted Design

The IsoClean CM installs directly into a T-bar ceiling grid system and other ceiling types, leaving critical floor space open.

Simple Maintenance

The HEPA filter, prefilter and motor/blower are easily accessible from within the room for ease of replacement or maintenance by authorized personnel.

Quiet Operation

The IsoClean CM will not disturb others nearby - less than 57 dBA measured 762 mm from the filter face while on its highest speed.

■ Options

- » Unit with Remote Speed Control
- » Unit with Lockable Remote Speed Control
- » ULPA (U15) Filter Upgrade
- » 294mm Exhaust Collar, Part No. 24335-001
- » Anti-microbial Prefilter, Part No. 38101-002
- » 1/4 in.-20 Eyebolts (set of 4), Part No. 62529-001

■ Warranty

- » Limited 1-year warranty

■ Hospital Applications

- » Negative Pressure Rooms
- » Emergency Rooms
- » Waiting Rooms
- » Sputum Induction
- » Aerosol Pentamidine Treatment
- » Intensive Care Units
- » Bronchoscopy Rooms
- » Renal Dialysis Rooms

■ Other Applications

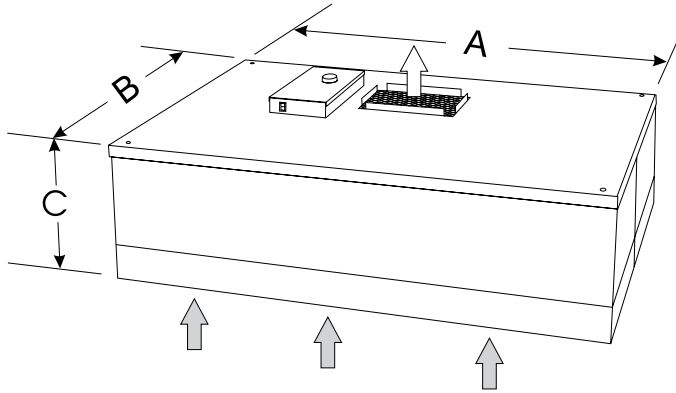
- » Clinics
- » Nursing Centers
- » Physician Offices
- » Homeless Shelters
- » Addiction Recovery Centers
- » Correctional Facilities

Hospi-Gard® IsoClean® CM

HEPA Filtration System

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■ Dimensional Information



Dimension (mm)	A	1171
	B	583
	C	428.7*
UL Listed		All Parts
Airflow (m ³ /h)		Variable to 1,190
Power Requirements Amps @ 230 V/50 Hz		2.0
Ship Weight (kilograms)		35.38

* Electrical Box adds 5cm to overall height.

■ Specification

Construction

Welded aluminum filter plenum and blower housing, sealed airtight.

HEPA Filter

Aluminum Framed HEPA type, with a minimum efficiency of 99.99% @ 0.3 micron, aerosol challenged.

Prefilter

Woven polyester media in a removable frame extends the life of the HEPA filter.

Airflow

Variable speed provides up to 1190 m³/h) ±10%.

Motor/Blower Assembly

Direct drive, continuous duty 480 Watt motor with sealed-for life bearings and inherent overload protection located on the “clean side” of the filter. Motor/blower assembly is mounted utilizing vibration dampening rubber and is designed to provide rated airflow through a 50% increase in initial static pressure.

Electrical

Standard 220 V, 50 Hz (22.2m) conduit knock-out. Optional remote mounted “ON/OFF” switch with speed control allows the unit to be turned on from either inside or outside the room. Optional hospital grade power cord available.

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