

TECHNICAL ENGINEERING SPECIFICATION

■ Introduction

The Hospi-Gard® IsoClean® is a portable, self-contained 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® can be used as a positive pressure clean air recirculating system in clinics, waiting rooms, hospital emergency rooms and other confined areas or as a partial or complete exhausting system to create a negative pressure isolation room for possible use with patients known or suspected of having TB, SARS or other infectious diseases.

As a recirculating unit, the IsoClean®'s powerful motor/blower can deliver from 560 CFM (951 m³/hr) up to 800 CFM (1359 m³/hr) to provide a large number of room air changes per hour to minimize the spread of airborne diseases to patients and health care workers.

As a negative pressure unit, the air passing through the HEPA filter is cleansed of 99.99% of particles as small as 0.3 micron and may be exhausted directly to the exterior through a window, or through a wall simply by connecting flexible ducting to the 6 in. (152 mm) collar located on the top of the IsoClean®.

The Hospi-Gard® IsoClean® filter contains 220 square feet (20.4 square meters) of media to extend its usable lifetime before filter loading occurs, resulting in decreased cost and fewer filter changes.

■ Standard Features

Low Cost Isolation Room

An easy and economical solution for creating a negative pressure, isolation room. Simply roll the IsoClean® into a standard room, connect flexible ducting to the 6 in. (152 mm) collar on the top of the unit for partial exhaust or to the optional 8 in. (204 mm) flanged collar for total exhaust and vent the purified air to the exterior through a window or wall.

Flexible Applications

The versatile IsoClean® can be used as a clean air recirculating unit, a negative pressure unit or as a split system to create both negative pressure and clean air recirculation by simultaneously exhausting some of the air out while recirculating the remainder back into the room.

Small and Portable

The IsoClean® can be rolled from one room to another and easily fits into areas with limited floor space.

Quiet Operation

52 dBA on low, 56 dBA on medium and 60 dBA on high speed measured 30 in. (762 mm) from face of the unit.

3-Speed Adjustable Airflow

The IsoClean® provides effective air filtration for a wide variety of room sizes with speeds ranging from 560 to 800 CFM (951-1359 m³/hr).

Room Air Changes Per Hour

Provides up to 24 room air changes per hour (ACH) in a typical 18 x 12 x 8 ft (5.5 x 3.7 x 2.4 m) patient room or up to 12 ACH for rooms up to 3,900 cubic feet (100 cubic meters).

Low-High Clean Air Circulation Pattern

Room air, along with airborne contaminants, is drawn into the intake grille at the bottom while the purified air is discharged at a high velocity from the exhaust grille located at the top of the IsoClean® to generate a sweeping, low-to high air circulation pattern with adequate "reach" to optimize the clean breathing zone for patient and staff.

Simple Maintenance

Both HEPA filter and prefilter are easily accessible for replacement by authorized personnel.



■ Options

- » IsoClean with ULPA Filter Upgrade, Part No. 10850-002.
- » Minihelic Pressure Gauge, Part No. S11129-001.
- » Keylock ON/OFF Switch, Part No. S11073-001.
- » Anti-Microbial Prefilter, Part No. 63352.
- » Carbon Prefilter, Part No. 63349.
- » 8 in. (203 mm) 100% Exhaust Collar, Part No. 11055.
- » Room Pressure Monitor, Part No. 63337.
- » Annunciator, Part No. 63338.
- » 220 V, 50/60 Hz Unit Available, Part No. 10921.

■ Hospital Applications

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

■ Other Applications

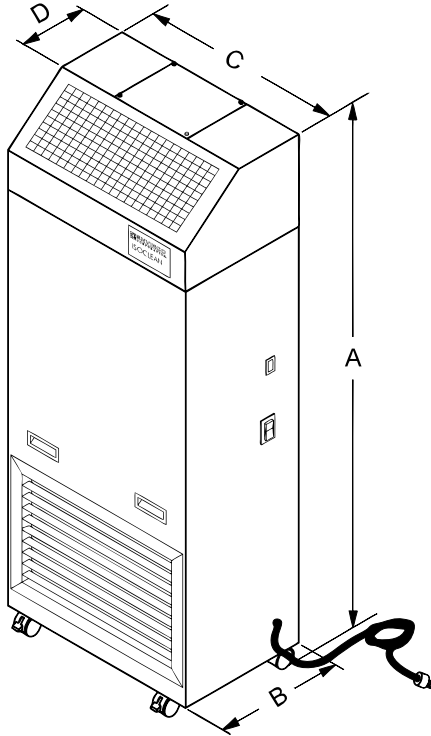
- » Clinics.
- » Nursing Centers.
- » Physician Offices.
- » Homeless Shelters.
- » Addiction Recovery Centers.
- » Correctional Facilities.

■ Warranty

- » Limited 1-year warranty.

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■ Dimensional Information



Description		120V w/UV	220V w/UV	120V	220V
Part No.		10850-005	10921-004	10850	10921
Dimension Inches (mm)	A	62.25 (1581)			
	B	19.75 (502)		15.75 (400)	
	C	23.66 (601)			
	D	12.86 (327)		8.86 (225)	
UL Listed (E152685)		No	No	Yes	No
Airflow CFM (m³/hr)		Low: 560 (951) ± 10%			
		Medium: 690 (1172) ± 10%			
		High: 800 (1359) ± 10%			
Power Requirements		8 Amps @ 115V/ 60 Hz	4.0 Amps @ 208-230V/ 60 Hz	6.9 Amps @ 115 vac/ 60 Hz	3.5 Amps 208-230 vac/ 60 Hz
Unit Weight lbs. (kg.)		200 (91)		175 (79)	
Shipping Weight lbs. (kg.)		285 (129)		250 (113)	
Shipping Dimensions (mm)	A	71.5 (1816)			
	B	22.75 (578)		18.75 (476)	
	C	26.75 (680)			

* Note: Airflow reduced by 20% when running 50Hz.

■ Specification

Construction

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

Filter

Aluminum Framed HEPA type, with a minimum efficiency of 99.99% @ 0.3 micron, aerosol challenged. Airflow sensor indicates when the filter needs changing.

Prefilter

Disposable non-woven polyester media with frame - 30% ASHRAE.

6 in. (152 mm) Exhaust Port

Located on top of the unit for use as a split system to create both negative pressure and clean air recirculation.

Motor/Blower Assembly

Direct drive, continuous duty, 1/3 Hp, 0.25 kW, 3-speed motor with sealed-for-life bearings and inherent overload protection located on the "clean side" of the filter. Motor/blower assembly is mounted on vibration dampening rubber mounts and designed to provide rated airflow through a 50% increase in initial static pressure.

Electrical

Standard 5-15P, 115 V, single phase, rubber-covered cord with 3-prong hospital grade, grounded plug (120V Model). Standard 6-15P, 220 V, single phase, rubber-covered cord with 3-prong hospital grade, grounded plug (220V Model).

UL Listing

UL 507 E152685 on Standard Unit (Part No. 10850) only.

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