

## ■ Introduction

**The Envirco 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/environment 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 m<sup>3</sup>/hr) up to 800 CFM (1359 m<sup>3</sup>/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 60dBA on high speed measured 30 in. (762mm) 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 m<sup>3</sup>/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.

*Envirco Hospi-Gard® IsoClean®*



## ■ Options

- IsoClean with ULPA Filter Upgrade
- Minihelic Pressure Gauge
- Keylock ON/OFF Switch
- Anti-Microbial Prefilter
- Carbon Prefilter
- 8 in. (203 mm) 100% Exhaust Collar
- Room Pressure Monitor
- Annunciator
- 220 V, 50/60 Hz Unit Available
- UV-C Sanitizer Available

## ■ Hospital Applications

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

## ■ Other Applications

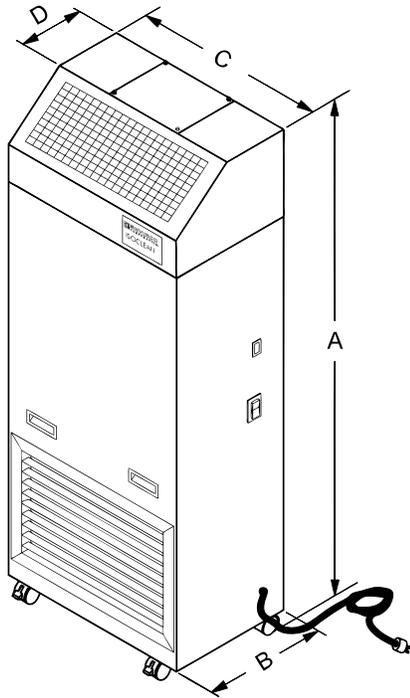
- Clinics
- Nursing Centers
- Physician Offices
- Homeless Shelters
- Addiction Recovery Centers
- Correctional Facilities

## ■ Warranty

- Limited 1-year warranty

PRODUCT DATA SHEET

■ Dimensional Information



| Description                |   | 120V with UV             | 220V with 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                         | YesN                      | o                           |
| 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.

■ Specifications

**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.