

## PRODUCT DATA SHEET

### ■ Introduction

The Hospi-Gard® AirCeil™ is a versatile, self-contained, ceiling-mounted high efficiency particulate air (HEPA) filtration system designed to provide a high velocity airflow pattern to filter out unwanted room particles, including airborne microbiological contamination.

The flexible system can easily and economically create a negative pressure isolation room that meets OSHA and CDC TB guidelines or can be used as a positive pressure clean air recirculating system in clinics, waiting rooms, hospital emergency rooms and other confined areas.

### ■ Standard Features

#### Low Cost Isolation Room

The AirCeil™ converts a standard room, without major room renovations, into a negative pressure isolation room for patients known or suspected of having TB or other infectious diseases. 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 a wall simply by connecting flexible ducting to the 12 in. (305 mm) exhaust collar.

#### Flexible Clean Air Recirculation

Air enters the module through the room side intake grille, passes first through a prefilter, then through a HEPA filter before the purified air is recirculated back to the room through an optional 24 in. (610 mm) square Ceiling Air Diffuser. Strategic placement of both the AirCeil™ and the Ceiling Air Diffuser optimizes its ability to help protect either the patient or health care workers.

#### Space Saving Ceiling Mounted Design

The AirCeil™ installs directly into a 2 x 4 ft. (610 x 1220 mm) T-bar ceiling grid system and other ceiling types, leaving critical floor space open. Units can be customized to fit metric grid sizes.

### ■ Hospital Applications

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

#### Remote Controlled Adjustable Airflow

Tamper resistant, hand-held, remote speed controller\* adjusts airflow from 400-650 cubic feet per minute (CFM) or 680-1105 m<sup>3</sup>/hr, while preventing unwanted airflow adjustments. *\*One remote controller can be used on multiple units and is sold separately. Part number is (63760-002).*

#### Room Air Changes Per Hour

Provides up to 22 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 12 ACH for rooms up to 3,250 cubic feet (92.0 cubic meters).

#### Simple Maintenance

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

#### Quiet Operation

The AirCeil™ will not disturb others nearby - 50 to 55 dBA (ambient sound level < 40 dBA) measured 30 in. (762 mm) from the filter face.

### ■ Other Applications

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



Hospi-Gard® AirCeil™

### ■ Options

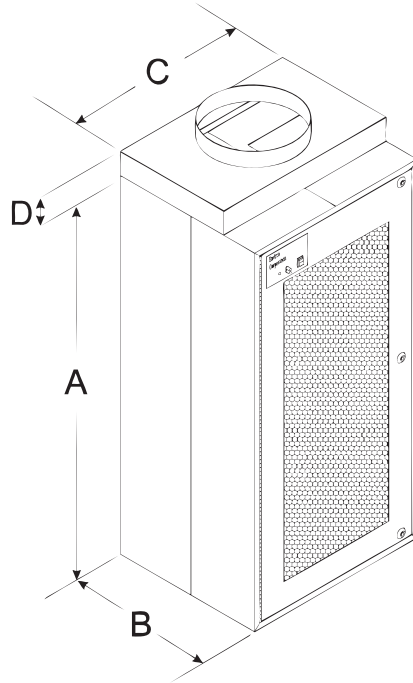
- » AirCeil™ with UV-C germicidal light, Part No. 11122-002.
- » Field Installed UV-C Light, Part No. 24375-001.
- » Carbon Prefilter, Part No. 24376-001.
- » Ceiling Air Diffuser, Part No. 63857.
- » 12 in. (305 mm) Flexible Duct, Part No. 63856.
- » Room Pressure Monitor, Part No. 63337.
- » Annunciator, Part No. 63338.

### ■ Warranty

- » Limited 1-year warranty.

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■ Dimensional Information



<b>Part No.</b>		11122-001
<b>Dimension Inches (mm)</b>	<b>A</b>	47.62 (1210)
	<b>B</b>	19.50 (496)
	<b>C</b>	23.62 (600)
	<b>D</b>	3.00 (77)
<b>UL Listed</b>		All Parts
<b>Maximum BTU / Hr</b>		875
<b>Airflow CFM (m³/hr)</b>		Variable 400 to 650 (680-1105)
<b>Power Requirements Amps @ 115 V / 60 Hz</b>		400 CFM: 0.72 Amps 650 CFM: 1.20 Amps Full Load Amps: 2.25 (1.0)
<b>Ship Weight, lbs. (kilograms)</b>		85 (38.6)

■ Specification

**Construction**

Welded aluminum filter plenum and blower housing with exterior room-side surface finished in a corrosion resistant polyurethane enamel.

**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. An optional charcoal prefilter extends the life of the HEPA filter while removing unwanted odors.

**Airflow**

Variable speed provides between 400 – 650 CFM (680 – 1105 m³/h) ± 10%.

**Control Panel**

Airflow indicator light glows red when the AirCeil is running and green when on standby or while adjusting the airflow with the remote controller.

**Electrical**

Standard 115 V, single phase, 60 Hz with 13/16 in. conduit knockout. Standard 220 V, 50 Hz with 20.6mm conduit knockout.

**Motor/Blower Assembly**

Two direct drive, continuous duty 128 Watt motors with sealed-for-life bearings and inherent overload protection located on the “clean side” of the filter. Fan, dual inlet, centrifugal blower. The motor / blower assembly is mounted on vibration dampening rubber mounts and designed to provide up to 650 CFM (1105 m³/h) at a filter pressure drop from 0.35 to 1.00 in. w.g. (88 – 250 Pa).