

TECHNICAL ENGINEERING SPECIFICATION

■ 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 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 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 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 680-1105 m³/h, while preventing unwanted airflow adjustments.

Room Air Changes Per Hour

Provides up to 22 room air changes per hour (ACH) in a typical 5.5 x 3.7 x 2.4 m patient room or 12 ACH for rooms up to 92.0 cubic meters. **One remote controller can be used on multiple units and is sold separately.*

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 762 mm from the filter face.

■ Other Applications

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



Hospi-Gard® AirCeil™

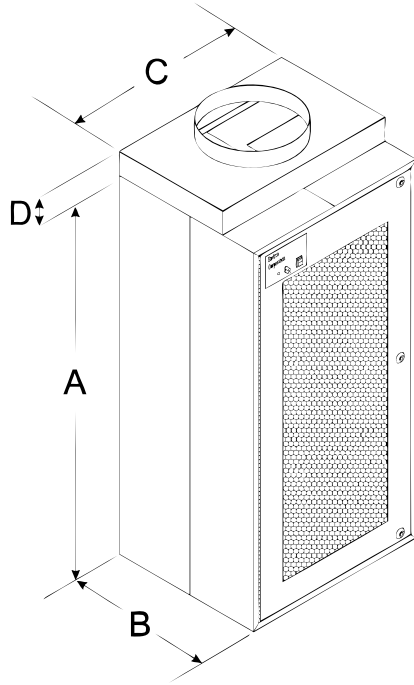
■ Options

- » AirCeil with UV-C germicidal light
- » Field Installed UV-C Light
- » Carbon Prefilter, Part No. 24376-001
- » Ceiling Air Diffuser, Part No. 63857
- » 305 mm Flexible Duct, Part No. 63856

■ Warranty

- » Limited 1-year warranty

■ **Dimensional Information**



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| Dimension (mm) | A | 1210 |
| | B | 496 |
| | C | 600 |
| | D | 77 |
| UL Listed | | All Parts |
| Airflow (m³/h) | | Variable 680-1105 |
| Power Requirements Amps @ 230 V / 50 Hz | | Full Load Amps: 1.0 |
| Ship Weight (kilograms) | | 38.6 |

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 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 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 1105 m³/h at a filter pressure drop from 88 – 250 Pa.