

HEPA-CARE® GERMICIDAL UV MODULES

UV Modules Can Provide An Additional Measure of Protection

The 2003 CDC Guidelines recommend the use of ultraviolet germicidal irradiation (UVGI) to supplement HEPA filtration, when the need for employing additional protection measures is indicated by an Infection Control Risk Assessment (ICRA). This combination is especially recommended for applications where highly lethal pathogens may be involved.

Abatement Technologies has developed three uniquely designed germicidal UV modules to meet these and other air purification requirements throughout the facility.

Built-In Performance Features:

- Four ultra-high output 39-watt UVGI lamps (156 watts total)
- Lamps are rated for 9,000 hours
- Internal air baffles maximize UVGI exposure by slowing down the airflow and directing it closer to the lamps
- Easy room-side access facilitates lamp replacement

Safety Features:

- Complete lamp shielding, to prevent any direct UV exposure during operation
- Safety interlocks to instantly deactivate lamps if the lamp compartment is opened
- Safety certified by Environmental Testing Laboratories (ETL)

UV800F Portable UV Module

The UV800F module is designed to mount onto the top exhaust outlet of a HEPA-CARE model HC800F portable HEPA unit, so it can be moved from room-to-room along with the HC800F. Uses for the HC800F/UV800F include:

- **Airborne Infectious Isolation Rooms:**
The most common uses are for irradiation of HEPA filtered air before it is exhausted from the room, and disinfection of room air between patients.
- **Protective Environments & Operating Rooms:**
The UV800F can provide added protection from airborne pathogens for immuno-compromised and other sensitive patients.
- **Continuous Air Cleaning & Recirculation:**
The air in almost any room or area can be cleaned and/or deodorized, and recirculated back into the same area. Common areas of use include patient waiting rooms, bronchoscopy, pediatrics, autopsy, and outpatient clinics.

The short power cord on the UV800F plugs directly into a GFCI receptacle on the side of the HC800F unit (touch pad HC800F models only).

For added safety, a shutoff switch instantly deactivates the lamps if the UV800F module is removed from the HC800F, or if there is insufficient airflow through the module.



UV400C-PT Ceiling-Mounted UV Module

The UV400C-PT mounts into a 2-ft. by 2-ft. drop ceiling grid, similar to a fluorescent light fixture. Internal baffles slow down the airspeed through the module, and direct the air close to the lamps, to maximize its exposure to the UVGI energy.

This model is designed specifically to provide supplementary or backup protection in applications where the dual protection of HEPA filtration and differential pressure are required:

- **Airborne Infectious Isolation (All) Rooms:**
In this mode, the UV400C-PT is installed into the exhaust air duct from the room, and used in tandem with an HC400C or HC800C ceiling-mounted HEPA unit. Potentially contaminated air is pulled out of the room by the HEPA unit, filtered, and then ducted into the UV400C-PT module. UV-irradiated air is then ducted to the outdoors, or to a location within the facility.
- **Protective Environments (PE):**
The UV400C-PT is also designed to irradiate HVAC supply air for PE, in combination with a ceiling-mounted HC400C-PP HEPA unit. In this mode, supply air is ducted into the UV module, and then pulled through ducting into the HEPA unit, then dispersed into the room. This ensures that only irradiated and HEPA filtered air is supplied to the room.



UV400C Ceiling-Mounted UV Module

The UV400C also mounts into a 2-ft. by 2-ft. drop-ceiling grid. This model is designed for use in areas or applications such as patient waiting areas, pediatrics, or autopsy, where UV disinfection can provide significant infection-control benefits, but HEPA filtration and room pressurization are not required. With this model, the HVAC blower, rather than a powered HEPA unit, propels the air through the UV400C. UV400C functions:

- **HVAC Return Air Disinfection:**
Used in place of HVAC return-air grills, to irradiate the air before it is exhausted from a room or area. In this mode, room air exhaust flows into the UV400C through the openings in the bottom of the door. Disinfected air is ducted out of the module, above the ceiling, and back into the facility HVAC system.
- **HVAC Supply Air Disinfection:**
Used in place of HVAC supply air diffusers to ensure that air supplied to an area is irradiated. Supply air is ducted into the unit above the ceiling, and then dispersed directly into the room.



Contact a “Pure Air For Healthcare.”TM Expert for more information.



United States: 800.634.9091
Canada: 800.827.6443
www.hepacare.com
PHONE: 678.889.4200 FAX: 678.889.4201