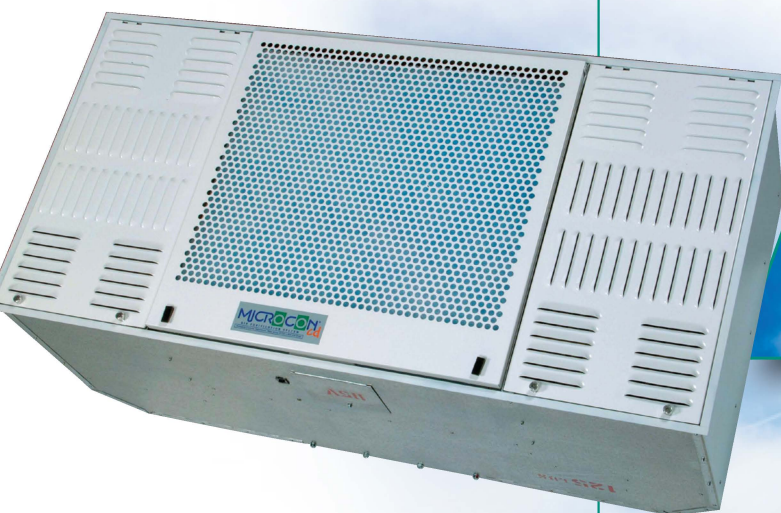


MICROCON®



AIR repair

MICROCON CD Stationary & PD Portable

Applications:

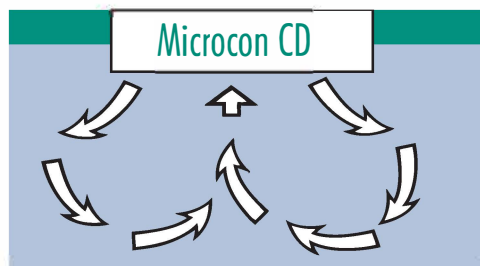
- Communications Centers
- Conference Rooms
- Dispatch Areas
- Evidence Rooms
- Training Centers
- Bunk Rooms
- Property Rooms
- Offices/Hallways
- Gaming Halls
- Locker Rooms
- Health Clubs/Gyms

Benefits:

- Progressive Filtration System
- Up to 99.99% efficient filters
- Controls both airborne particulate & gaseous pollutants
- Removes odors and harmful fumes
- CD, mounts flush with the ceiling
- PD, portable and easy to maneuver
- Multi-directional exhaust louvers
- Durable baked enamel finish
- Maintenance-free motor
- UV germicidal option (both)

The Microcon CD is a ceiling hung high efficiency air filtration system specifically designed for the removal of both airborne pollutants and gas phase contaminants. The potential for exposure to biological health hazards such as bacteria, viruses, mold, mildew, dust and gaseous odors, contributes to health concerns, Sick Building Syndrome (SBS) and building-related illnesses. Most people spend 90% of their time indoors. Breathing contaminant laden air slowly begins to wear down ones immune system. If contaminants are airborne the potential for inhalation is greatly increased. Small micron sized contaminants can remain suspended indefinitely in the air and travel on air currents throughout the internal environment.

Air Distribution Pattern



Air is drawn through the center inlet grille, pre-filtered, and then final filtered before passing over high intensive germicidal UV lamps (option) before being exhausted through two (2) specially constructed gas phase carbon capture cells. Clean, safe air free of particulate matter and gaseous odors is introduced to the area. Air changes, filtration, dilution and gas phase contaminant removal will provide a healthier environment.

MICROCON® CD, making your air safe to breathe

Air Purification and you

Increasingly, numbers of people are reacting to environmental conditions in their work, recreation and residential environments. A host of reactions ranging from headaches, nausea, eye, nose and throat irritation, dizziness and odor sensitivity can be triggered by various air pollutants and chemicals to which we are exposed in our everyday lives. Some reactions may either be the result of combustion pollutants such as carbon monoxide, carbon dioxide and dust, or biological air pollutants such as mold, pollen, bacteria, mildew, or other associated allergens. Besides particulate contamination, volatile organic compounds (VOC) such as solvents, vapors, chemicals and various cleaning agents become more than a mere nuisance but irritants that affect our lives until they are identified, addressed and remediated.

Filtration

Both the MICROCON CD and PD share the same 3 stage progressive filter system. The first stage is a 1" thick synthetic pre-filter designed to contain larger size airborne particles thereby extending the life of the final filter. The secondary or final filter is a hospital-grade, high-efficiency pleated filter cell capable of removing virtually 100% of airborne particles in the sub-micron range. Since removal of gas phase pollutants require a different capture mechanism—carbon or charcoal, a unique carbon composite cell is utilized as the last stage which allows for higher adsorbent loading at a lower pressure drop than comparable carbon cells. The addition of optional germicidal UV lamps add another filtration dimension.

Installation

The MICROCON CD, electrically prepared at 120V or 240V with maintenance-free fan, is a flush-mounted design that easily installs into a standard 2' x 4' T-bar ceiling grid. The unit is unobtrusive and blends well with any décor or setting. Once installed, all maintenance procedures such as filter renewal are performed from below the unit without the need of tools.

There are no installation requirements for the portable PD model. The unit arrives ready to operate. Simply plug into a power source and adjust your speed volume, the unit does the rest. Completely mobile, it can be easily moved anywhere the need arises. Recessed side mounted handles aid in lifting the unit over floor obstructions the wheels can't negotiate. With a maintenance-free fan and easy access front panel any service is a simple procedure. Built-in gauges, timers and warning LED's indicate when filters require renewal, eliminating guess work.

Performance

Both units deliver from 375 to 800 cfm of filtered air at varying speeds. What that means for example, is a room measuring 20 foot sq. with an 8' ceiling can achieve 15 room air changes per hour or one air change every 4 minutes. Exhaust louvers are positioned to channel filtered exhaust air in four different directions. This provides good air distribution and mixing within the space. Unless all the air is captured and treated the room cannot be considered clean, or safe. Establishing airflow patterns and constant mixing is critical to establishing and maintaining quality air improvements.

Warranty

All parts and labor are covered for a period of one year from purchase date, excluding filters. The life expectancy for the primary filter is estimated to be 4-6 months. The final filter and carbon cells are estimated between 12-24 months. These estimates may vary based upon usage and contaminant concentration levels.



MICROCON®

Carbon composite gas-phase filter cell (2)

Multi-directional baked enamel exhaust louvers

Optional UV lamps (2)

All zinc-coated steel construction

Maintenance-free, high-capacity fan

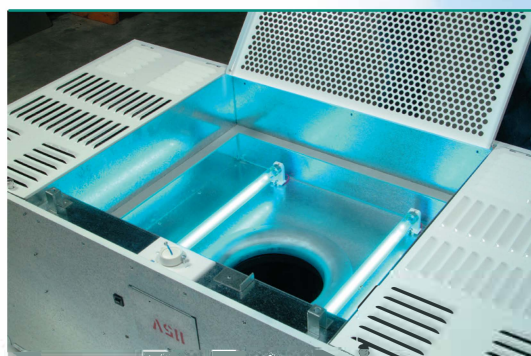
Baked enamel swing-down inlet grille

Polyester pre-filter

High-efficiency final filter

Electronic variable volume speed control

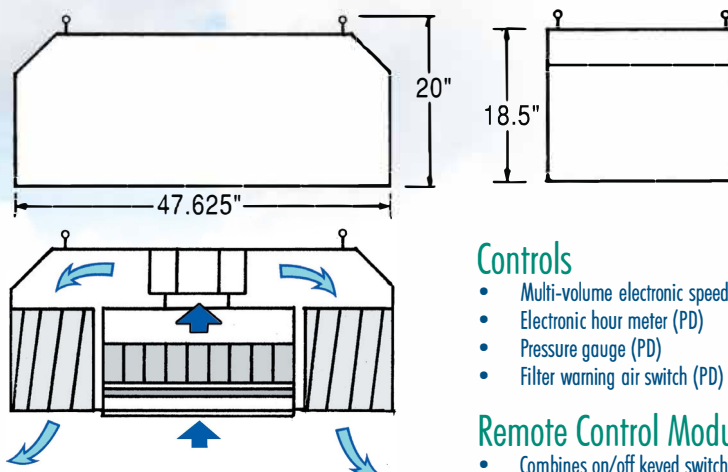
1/2" acoustical foam soundproofing



MICROCON CD & PD with optional UV lamps

Ultraviolet germicidal (UV) radiation in the 254-nanometer wavelength has proven effective in killing most types of airborne bacteria and viruses. Coupled with a high efficiency filter cell upstream of the two UV lamps the germicidal effectiveness is greatly enhanced. The addition of the UV lamps in either the CD or the PD provides for a "total air quality solution" for virtually any indoor environment.

MICROCON CD & PD Model Specifications



Dimensions CD

- (H) 23.625" (W) 47.625" (D) 18.5"
- Weight 125 lbs.

Dimensions PD

- (H) 50.75" (W) 24" (D) 19.25"
- Weight 175 lbs.

Blower CD & PD

- Backward curved motorized impeller
- 1690 rpm
- Dynamically balanced, vibration-free
- Maintenance-free sealed ball bearings

Filtration Rate CD & PD

- Variable speed 375-800 cfm
- 22,500 to 48,000 cubic feet per hour

Power Requirements CD & PD

- 120VAC @ 50/60Hz, 1 Phase, 2.4A max. 240 Watts
- 240VAC @ 50/60Hz, 1 Phase, 1.05A max. 240 Watts

Controls

- Multi-volume electronic speed control (CD & PD)
- Electronic hour meter (PD)
- Pressure gauge (PD)
- Filter warning air switch (PD)

Remote Control Module

- Combines on/off keyed switch, hour meter and filter warning switch (CD)

Cabinet

- 20-ga zinc coated steel (CD)
- 18-ga baked white enamel intake grill and multi-directional exhaust louver (CD)
- 18-ga baked gray powder coated steel chassis (PD)
- 4 heavy duty suspended eye bolts (CD) (PD)
- 4- 3" diameter composite wheels, 2 locking (PD)
- 2- retractable side mounted transport handles (PD)

Sound Absorbency

- 1/2" acoustical absorbing foam sheet

Filters

- Pre-Filter: 20x23.5x1" - 35% synthetic polyester pad
- Final Filter: 19.5x23.5x4" - Hospital grade high-efficiency cell of waterproof micro-glass media in a separatorless configuration, 106 sq. ft. of media area
- Gas Phase: 12x23.5x12" - Dry process carbon composite cell

Model No.	Model	Filters
MCDH-002 MCDHUV	Microcon CD Microcon CD, UV	Pre-Filter, HEPA, 2 Carbon Cells Pre-Filter, HEPA, 2 Carbon Cells, UV (2)
MCD-PPH MCD-PDHUV	Microcon PD Microcon PD, UV	Pre-Filter, HEPA, 2 Carbon Cells Pre-Filter, HEPA, 2 Carbon Cells, UV (2)

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