

DAFCO FILTRATION GROUP®

UV BIO-WALL CR



- Patented Biowall design incorporates 4 lamps outwardly radiating parallel with ductwork
- Patent pending parabolic reflectors direct virtually all UV energy outward from center of duct
- Commercial / Residential in-duct UV air purifier
- Continuously treats the air travelling in the entire duct.
- Destroys up to 99.99% of biological contaminants on one pass

** Percentage of biological destruction will depend on: size of duct; velocity of the air where the UV Bio-Wall CR is installed; contaminants to be destroyed; percentage of outside make-up air.*



DESCRIPTION

Inspired by the overwhelming success of the commercial UV Bio-Wall, the UV Bio-Wall CR is designed as a light commercial/residential in-duct air purifier.

The CR will treat the entire duct at one time, destroying up to 99.99% of the biological contaminants in the air-stream.*

The CR includes (4) 18" high-intensity pure fused quartz UVC germicidal lamps which are attached to (4) anodized aluminum parabolic reflectors and are mounted parallel to the air-stream.

Adjustable clutch mechanism allows the lamps and reflectors to be extended up to 15" from the duct wall so the assembly can be positioned in the center of the duct work—creating a wall of germicidal UV energy up to 24" deep.

FEATURES

- Commercial/Residential in-duct UV air purifier.
- Continuously treats the air travelling in the entire duct.
- Destroys up to 99.99% of biological contaminants on one pass.
- Installed parallel to the air-stream resulting in greater “dwell time” between the air and the UV lamps.
- 1600 microwatts per/cm² of UV intensity @ 36".
- (4) 18" high-intensity 19mm pure fused quartz lamps.

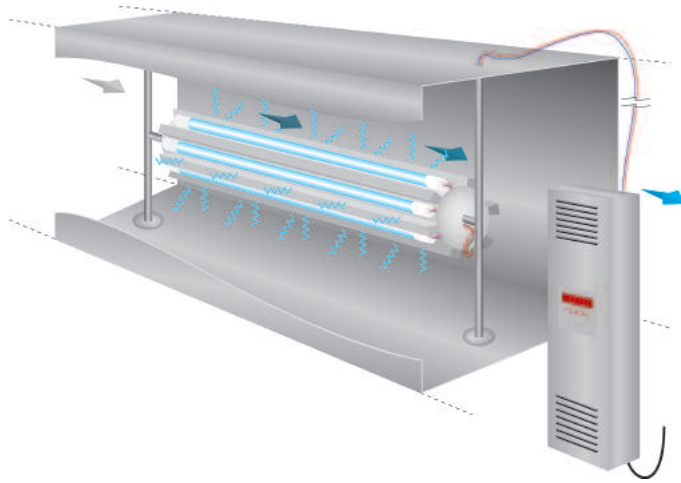
- (4) aluminum anodized parabolic reflectors intensify and maximize 360° of UV energy.
- Pressure sensor turns purifier on and off. Simple installation, just plug-in.
- LED “smart lamp system” visual status display.
- (4) high-output electronic rapid start ballasts.
- Adjustable clutch mechanism allows for reflectors and lamps to easily extend up to 15" to the center of a 30" duct.
- Protects plastics, rubber and occupants from UV exposure.
- 18" lamp length.
- Patented design and Dafco Filtration Group quality.
- Recommended lamp changeout: commercial, 2 years; residential, 3 years.

BENEFITS OF REFLECTION

- Directs virtually all the lamp’s UV energy where needed most.
- Drastically increases effective lamp life.
- Allows for the lamps to be self-cleaning by directing the UV back onto itself, reflecting off the sides of the duct, burning off bioaerosols that may adhere to the lamp’s glass surface.
- Maintains lamp temperature at a more constant level.
- The UV Bio-Wall CR uses four anodized aluminum parabolic reflectors to project the UV energy outward from the center of the duct.



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**STANDARD INDOOR AIR
 QUALITY INSTALLATION**

This installation uses the standard UV Bio-Wall CR. Designed for standard applications requiring biological contaminant control. The CR produces a UVC germicidal wall destroying the biological contaminants passing through it.

SPECIFICATIONS

Purifying Capacity:	Sized according to application
Dimensions (in):	24 x 8. Lamp assembly can extend up to 15" from backplate
Weight (lbs):	28 lbs
Power:	Switchable 110 / 220 v 50-60 Hz
Watts/Amperage total:	170 watts; 2.5 amps
Starting:	Air pressure sensor
Line Cord:	Yes
UV Lamp type:	Proprietary high intensity; 19mm mercury vapor quartz
UV Wavelength (nanometers):	UVC 254nm / UVV 187nm
UV Lamp Configuration:	(4) x straight
UV lamp Length (in):	18"
Internal lumina lamp coating to prevent solarization:	Yes
Reflector:	Anodized aluminum parabolic reflectors
Average microwatt intensity at 36":	1600µm
Lamp change out time:	17000 hours
Lamp Warranty:	12000 hours
Purifier Warranty:	3 year ballast, 5 years other
Construction:	Steel powder coat paint

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