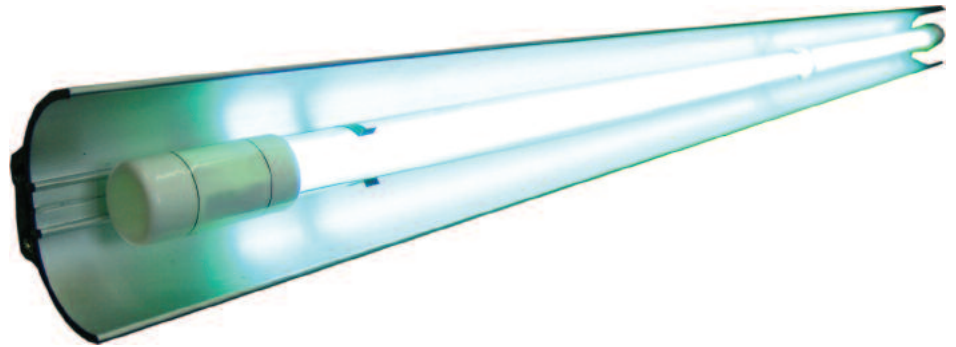


DAFCO FILTRATION GROUP®

CRYSTAL COIL



- Destroys mold and other microbial growth on the coils as well as biological odors
- Patent pending parabolic reflectors direct virtually all UV energy onto the coils
- Improves energy savings and reduces maintenance by keeping the coil clean
- High-intensity 19mm UVC quartz lamp
- More than twice the operating life compared to competing products
- Ideally installed on the upstream air entering side of the coil, requiring little or no maintenance



DESCRIPTION

The patent pending Crystal Coil purifiers are designed to prevent and destroy mold and other microbial contaminants from rooftop coils, fan coils, walk-in A/C coils and the air. High-intensity 19mm UVC (254 nm) quartz lamps and high-output electronic ballasts paired with anodized aluminum parabolic reflectors make the Crystal Coil series incredibly effective.

Anodized aluminum parabolic reflectors are able to direct virtually all the UV energy onto the coils. Reflection is required to direct the UVC energy where it is needed most. Using any other type of reflector will result in losing more than half the UV intensity. Besides increasing UV exposure, the reflector also protects plastics and wiring from destructive UV rays installed behind reflector.

The crystal coil is designed to be installed on either side of an evaporator coil or fan coil (the preferred installation is facing the coil on the upstream air entering side) destroying and preventing mold and other microbial growth.

The Crystal Coil is available in 12", 18", 24", 30", 40", 50" and 60" lamp lengths. A combination of Crystal Coils can be used to accommodate any size coil.

FEATURES

- Patent pending anodized aluminum parabolic reflectors reflect and direct UV energy while protecting plastics from destructive UV rays.
- UV lamp lengths of 12", 18", 24", 30", 40", 50" and 60".
- Recommended lamp changeout at 17000 hours.
- 12000 hour lamp warranty.
- 3 year ballast warranty.
- 5 year fixture warranty.
- University tested and results published in the *Lancet Medical Journal*.
- Higher UV intensity and reliability than other UV lamp emitters.
- 5x longer warranty than competing products
- Optional Zigby Protocol wireless monitoring electronics.

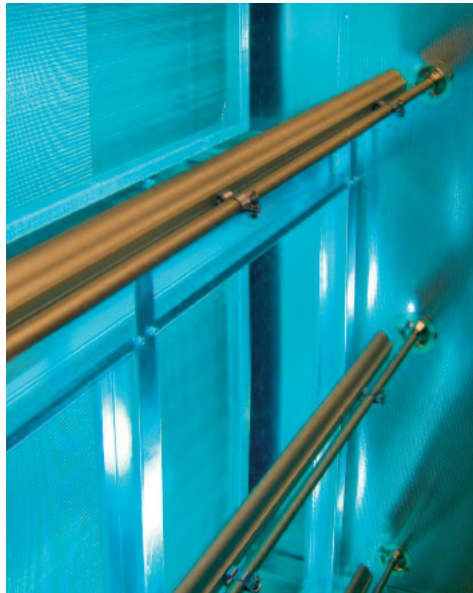
BENEFITS OF REFLECTION

- Directs virtually all the lamp's UV energy where needed most.
- Drastically increases effective lamp life.
- Prevents lamp fouling when installed on the return side of the evaporator coil.
- Supports lamps that can be as long as 60", protecting them from breakage.
- Maintains lamp temperature at a more constant level.



CRYSTAL COIL INSTALLED

Continually basking the coil with UVC energy will prevent and destroy mold growth.



TESTING

In the two year double blind study published in the *Lancet Medical Journal* sponsored by the Medical Research Council and the National Institute for Occupational Safety and Health (NIOSH), McGill University Researchers found the Crystal Coil purifiers to:

- Reduce microbial and endotoxin concentrations by 99%
- Reduce respiratory symptoms by 40%
- Reduce all symptoms by 20%

SPECIFICATIONS

Purifying Capacity:	Sized according to coil size
Reflector Height (in):	2.5
Reflector Depth (in):	1.26
Reflector Length (in):	Model dependent. Up to 61.5
Weight (lbs):	Model dependent. 2.5 - 14
Power:	110 or 220 v 50-60 Hz
Watts/Amperage total:	Model dependent. 1500ma, 150 watts.
Starting:	Hardwire to Air Handler
Line Cord:	No
UV Lamp type:	Proprietary high intensity; 19mm mercury vapor quartz
UV Wavelength (nanometers):	UVC 254nm
UV Lamp Configuration:	Straight
UV lamp Length (in):	18", 24", 30", 40", 50" and 60" available
Internal lumina lamp coating to prevent solarization:	Yes
Reflector:	Anodized aluminum parabolic reflector
Average microwatt intensity at 36":	Model dependent. IL 60 will be 600mw at 1 meter
Lamp change out time:	17000 hours
Lamp Warranty:	12000 hours
Purifier Warranty:	3 year ballast, 5 years other
Construction:	Aluminum / Steel
Certifications:	CSA C/US, CE
Options:	Zigby Protocol wireless communication for remote monitoring Ultra-high intensity Amalgam lamps

© DFG 02/09

