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CRYSTAL COIL HD (HEAVY DUTY)



- 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 HD 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 HD series incredibly effective.

Anodized aluminum parabolic reflectors are able to direct virtually all the UV energy onto the coil or the air. 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 HD is an ultraviolet object purifier specifically designed for exterior rooftop HVAC units. The HD employs patented technology to keep the A/C coil free from biological contaminants including mold and fungus. The UV purifier uses a weatherproof NEMA 4x housing, a patent pending reflector locking and alignment mechanism, a high-intensity 19mm quartz germicidal lamp and an anodized aluminum parabolic reflector to direct the UV energy that would otherwise be lost. This ensures a coil free from microbial growth. The Crystal Coil HD is available in 24", 30" and 40" lamp lengths.

FEATURES

- Patent pending anodized aluminum parabolic reflectors reflect and direct UV energy while protecting plastics from destructive UV rays.
- UV lamp lengths of 24", 30" and 40".
- Recommended lamp changout 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.

BENEFITS OF REFLECTION

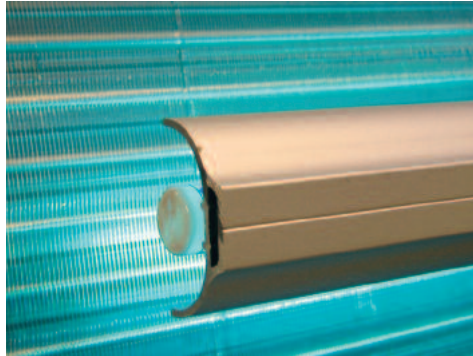
- Directs virtually all the lamp's UV energy where needed most.
- Drastically increases effective lamp life.
- Supports lamps that can be as long as 40", protecting them from breakage.
- Maintains lamp temperature at a more constant level.



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CRYSTAL COIL HD 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 HD 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
Enclosure:	NEMA 4x. 8x8x4
Reflector Height (in):	2.5
Reflector Depth (in):	1.26
Reflector Length (in):	Model dependent. Up to 41.5
Weight (lbs):	Model dependent. 12 - 13
Power:	220 or 110 v 50-60 Hz
Watts/Amperage total:	Up to 100 watts, 1 amp
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):	24", 30" and 40" available
Internal lumina lamp coating to prevent solarization:	Yes
Reflector:	Anodized aluminum parabolic reflector
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

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