UVP

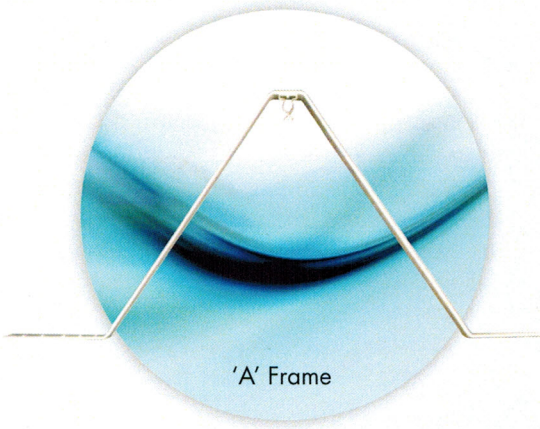
ultra violet products

GERMICIDAL

ULTRA-VIOLET FOR HVAC SYSTEMS

Electronic Ballast

Electronic Ballast



'A' Frame

WHAT IS UVC ULTRA-VIOLET?

For well over a century, UVC germicidal Ultra-violet has been used and recommended in the food, medical, pharmaceutical and hospitality industries, to kill micro-organisms such as bacteria, viruses, moulds, yeasts, protozoa and marine and nursery pathogens, in the air, in liquids and on surfaces.

Inactivation by UVC Ultra-violet is instant as it destroys the DNA thus preventing reproduction of that cell. Unable to replicate, a micro-organism is dead. It cannot reproduce and it cannot create Bio-film. UVP COIL PACKS generate UVC energy using germicidal lamps which emit 254nm and operate from electronic ballasts.

THE PROBLEM IN HVAC SYSTEMS

Fungal contamination is a widespread phenomenon in buildings with HVAC systems and may create contamination in occupied areas. Common symptoms are infections and hyper-sensitivity, diseases like asthma, allergic rhinitis and pneumonitis. Sick building syndrome has been a common nickname.

The cooling coils are the most obvious areas for visual fungal contamination. The combination of recycled air and unfiltered fresh air, creates fungal growth on the coils and the only method of control has been physically cleaning on a regular basis, but even this will not prevent fungal growth.

THE SOLUTION

Install UVP COIL PACKS with germicidal UVC lamps to irradiate the cooling coils. Operating on a 24/7 basis, UVC will work on existing fouled coils. The mould spores growing on the coil are destroyed by the UVC rays. The condensate water causes the dead mould and the dirt buildup to run down the coil fins & collect in the drain pan. Within 30 days the coil looks like new. No more major cleaning required. The UVC also irradiates the condensate water which can be used in other areas [eg. toilets, gardens, cooling towers]. This also results in improved air quality and energy savings.

THE BENEFITS

CONTINUOUS: UVC continuously and automatically destroys micro-organisms with each air flow.

LABOUR SAVING: Minimal labour required for maintenance.

ENERGY SAVING: Installing UVC lamps has been known to create 20% power saving with capacity reduced from 99% to 62% after installation.

IMPROVES AHUs EFFICIENCY: Use of UVC lamps lowers maintenance costs, lowers power costs & extends the life of the equipment. Improves the airflow through the coils.

HEALTHIER AIR TO BREATHE: Improved air quality helps reduce staff sickness

REDUCES AIRBORNE CONTAMINATION: Improves staff efficiency and well being.

the dead easy way!

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ULTRA-VIOLET FOR COILS & DUCTS

INSTALLATION & LOCATION:

UVC Lamps should be mounted horizontally 30 cm from the coil face on the downstream side. Ultra-violet rays will irradiate into the gaps in the fins ensuring a complete clean and uninterrupted airflow. They should also be at 700 mm maximum centres and cover the full coil width.

EXISTING UVC UNITS:

Replacement Ultra-violet Lamps, Electronic Ballasts and Lampholders are available for all other brands of systems in use. We carry stocks and dispatch quickly to maintain your HVAC system efficiency with limited down time. Simply supply the part numbers and we will respond.

DUCTS:

AERO-LOGIC
is designed for use in small ducts and home use. Available in sizes 515 mm to 843 mm long.

COMMERCIAL APPLICATIONS
Please consult us regarding installing UVC lamps in ducts. Information required is air speed, duct/plenum dimensions, air temperature, targeted micro-organisms and length of duct available.

We will assess your individual requirements and offer our recommendation and quotation.

OTHER UVP PRODUCTS

We also supply new equipment and spare lamps/ parts for water purifiers, coolroom fixtures, air irradiation, conveyors, bug trappers, bug zappers, ozone equipment and air purifiers.

COIL PACKS

The quantity and UVC lamp type is determined by the cooling coil dimensions.

MODEL	MAX COIL WIDTH
ACCP 600	600 mm
ACCP 900	900 mm
ACCP1200	1200 mm
ACCP1600	1600 mm

Advise exact coil size when ordering. Each COIL PACK includes,*1 UVC lamp, *1 Electronic Ballast, *4pin Lampholder, *2 'A' Frames with lamp holding clips, *Sight Glass, *Adhesive Warning Sticker.

COILS WIDER THAN 1600 MM:
Use 2 lamps side by side in one row horizontally. Match the coil packs to cover the width.

- 1800 mm use 2 ACCP 900
- 2000 mm use 1 ACCP900, 1 ACCP1200 [overlap]
- 2200 mm use 2 ACCP1200
- 2400 mm use 2 ACCP1200
- 2600 mm use 1 ACCP1200, 1 ACCP 1600 [overlap]
- 2800 mm use 1 ACCP1200, 1 ACCP 1600 [overlap]

For wider coils, match coil pack to cover widths.

COIL HEIGHT:
Maximum 700 mm apart, eg 1400 mm is maximum height for I lamp.

• To 1400 mm	1 row	700 mm centreline
• 1500 – 2200 mm	2 rows	max. 700 mm centreline
• 2300 – 2800 mm	3 rows	max. 700 mm centreline

UVP
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