



AIRSTERIL IN-DUCT UNITS TARGET BACTERIA, MOULD AND FUNGI

INFECTION AND ODOUR CONTROL - FRESH AND CLEAN DUCTING



AST2000

Traditional cleaning cannot access these areas, system age, poor maintenance, building heating systems, and moisture ingress can all increase contamination levels. Current cleaning methods can actually magnify problems over time increasing moisture levels and reducing system life or leaving behind chemical residue.

Odours and infections are created by bacteria, viruses, mould, fungi and volatile organic compounds found in the air and on surfaces. In eight hours, a single bacteria cell can multiply to over 8 million, meaning odours prevail, the addition of masking agents can make odours worse and do nothing to spread the growth of micro-organisms. Airsteril gets to the root cause of the problem by controlling bacteria and viruses, and eliminating mould and fungi.

Remove microbial and chemical contaminants from handling units and ducting to lift indoor air quality. Technology proven to reduce total bacteria count by 99.84%.

HIDDEN EFFECTS FOR POORLY MAINTAINED AIR SYSTEMS:

- Visitors perceive poor hygiene, lack of care and poor management
- Higher cleaning costs and premature refurbishment
- Increased health risks including; spreading of illness and allergy
- Increased absenteeism and staff turnover
- Efficiency of air handling units decrease

AST3000

BENEFITS BY USING AIRSTERIL



- Eliminate bacteria and viruses in the air and on surfaces
- Destroys mould and fungi
- No chemical or moisture residues
- Maintain peak system performance
- Low power consumption
- Low maintenance clean and lamp change once a year

In September 2009 the Health Protection Agency's laboratories at Porton Down performed efficacy testing of the Airsteril MP20 Unit's ability to reduce aerosol and surface microbial contamination.

The tests showed a reduction of airborne microorganisms of up to 98.11% within five minutes of exposure and a reduction of surface contamination up to 59.47% in one hour - the surface tests included MRSA.

The full HPA report is available free of charge on request.

HOW OUR IN-DUCT SYSTEMS WORK

The AST 2000/3000 units are designed to permanently fix into ducting systems. Using shatterproof wrapped lamps they significantly contribute to compliance with safety standards in a variety of industries. Both the single lamp AST 2000 and dual lamp AST3000 can have performance adjusted for higher contamination environments by swapping installed lamps if required. Dependent on site conditions and installation location a single unit or multiple units may be required to eliminate growth of mould and control bacteria throughout an air handling unit or ducting system.

The AST In-duct should be operated 24/7 to spread purifying air through the ducting system and building utilising the airflow generated by the ventilation system.

SERVICING MADE EASY



- Always turn off the power to the unit as the first step
- Power should be disconnected if working inside the air handling unit or ducting system
- Unscrew and remove the two retaining finger screws at the rear of the unit (switch/label side)
- Gently remove the central lamp holding section of the unit, leaving the support frame in place
- With a soft brush remove any dust and debris
- Unclip the TiO2 Catalyst plate and unscrew the two finger screws to release the lamp holding plate
- Take the new lamp and place it inside the holding plate
- Whilst holding the lamp's white base, firmly plug the lamp into its fitment
- Now place the holding plate back into position and secure with the two finger screws, clip the TiO2 Catalyst plate back on
- Re-fit the unit into the support frame, tighten the two retaining finger screws and attach the unit back in its placement
- Turn on the power. The lamp's blue light will be visible through the rear of the unit.
DO NOT LOOK DIRECTLY INTO THE LAMP

Dimensions
AST2000 - 280mm (l) x 156mm (w) x 65mm (h) AST3000 - 420mm (l) x 156mm (w) x 65mm (h)
Construction
Rugged construction, anodised aluminium
Power Supply
120 - 277V, 50/60Hz AST2000 - 36 watts, AST3000 - 72 watts
Weight
AST2000 - 1.5kg, AST3000 - 2.5kg
Set Up
Fixed through the wall/roof of ducting or air handling unit system using support frame and template
UVC Lamp
36w custom UV lamp, 386mm long. Lamp life 9000 hours
Operation
Continuous operation

Using a unique combination of technologies working in tandem:

Internal – (UV) Germicidal Irradiation and Dual Wavebands work to eliminate micro-organisms
Transmitting – Plasma Quatro, (TIO²) Super Oxide Ions and optional targeted Ozone actively seek and eliminate bacteria, viruses, mould, fungi and volatile organic compounds in the air and on all surfaces.

Odour Elimination Guaranteed

* Conditions Apply

