

AerisGuard™

Total HVAC Protection System



Healthy Buildings...
Healthy Planet



AerisGuard™ HVAC Protection System.

The first comprehensive program to protect against mould, bacterial and fungal contamination of commercial HVAC systems.



How healthy is your building?

It's a fact - when heat exchanger surfaces are contaminated with microorganisms and organic debris (dirt), the heat exchanger is not as efficient as it should be. This is because a layer of microbial growth is acting as an insulating barrier, decreasing the operating efficiency and reducing airflow. Commonly, the contamination affects the quality of the air supplied to the occupied space. And that means it could greatly affect the health of the people within your building.

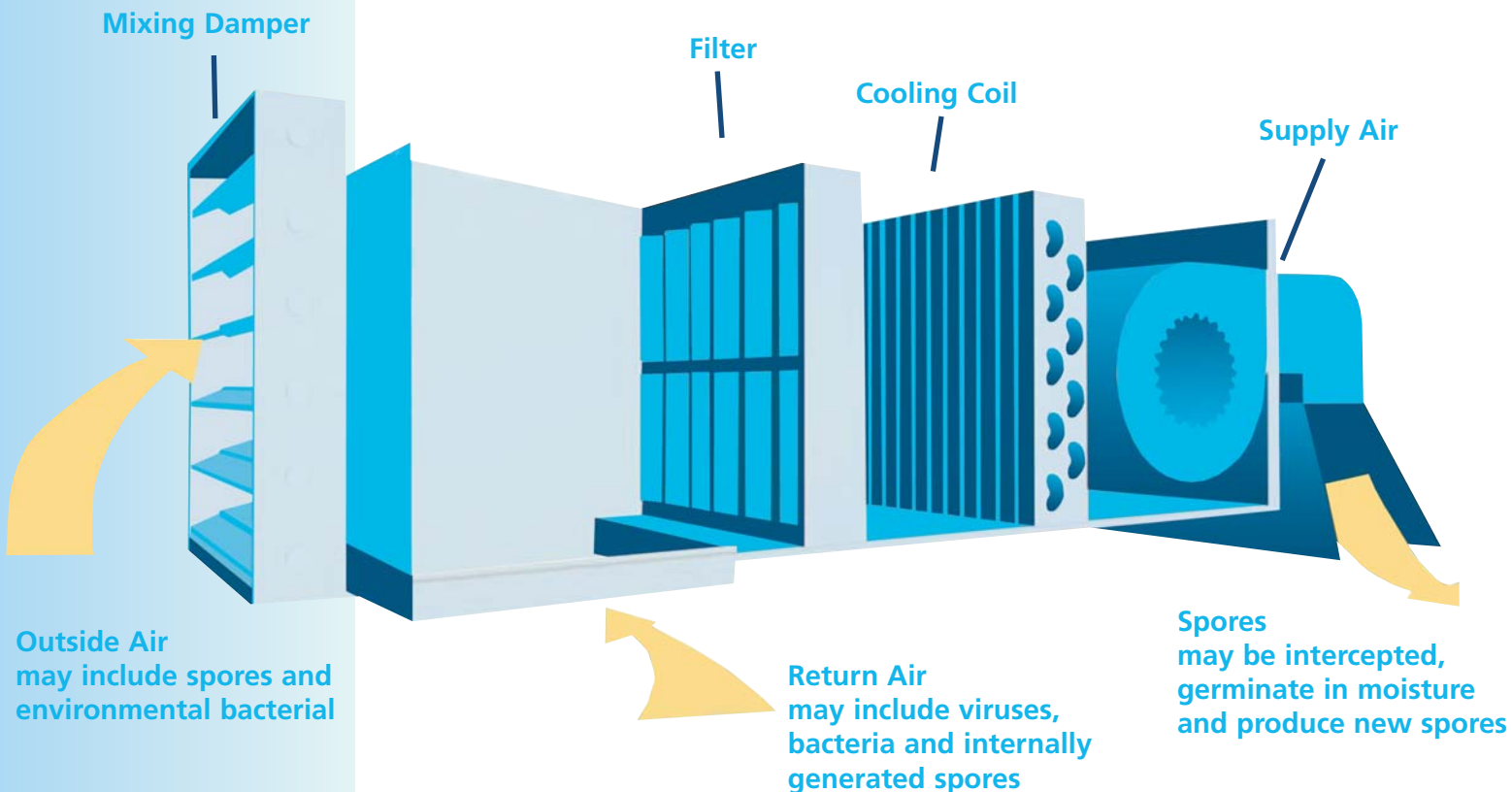
"Up to one third of buildings in industrialised countries are sick."

World Health Organisation

Prevention is better than cure.

AerisGuard treats all modern air handling components - primarily the coils, drain pans, ductwork, air handling rooms and related surfaces. The AerisGuard technology provides a strong residual action that prevents HVAC surfaces from recontamination, keeping applied surfaces hygienically clean for extended periods. This also provides protection from corrosion (as microbial growth is corrosive by nature).

Sources and pathways of microbial contamination in a typical air handling unit.



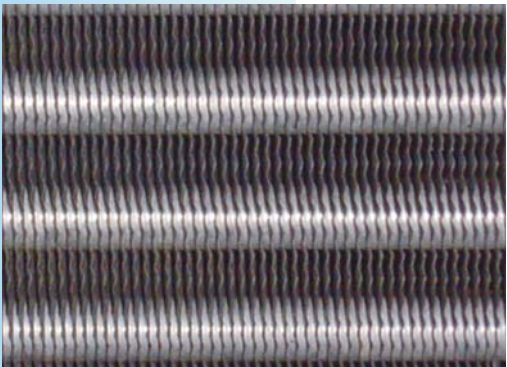
The protection process.

The AerisGuard process uses a pH neutral, non corrosive, highly active multi- enzyme cleaner, specifically designed to digest and remove the build up of microbial contamination and organic debris from within all heat exchanger components of the HVAC system.

The process is then completed by applying AerisGuard Treatments on all heat exchangers and HVAC surfaces, providing 12 month residual protection against recolonisation of microbial growth.



Coil before AerisGuard treatment



Coil after AerisGuard treatment

The AerisGuard benefits.

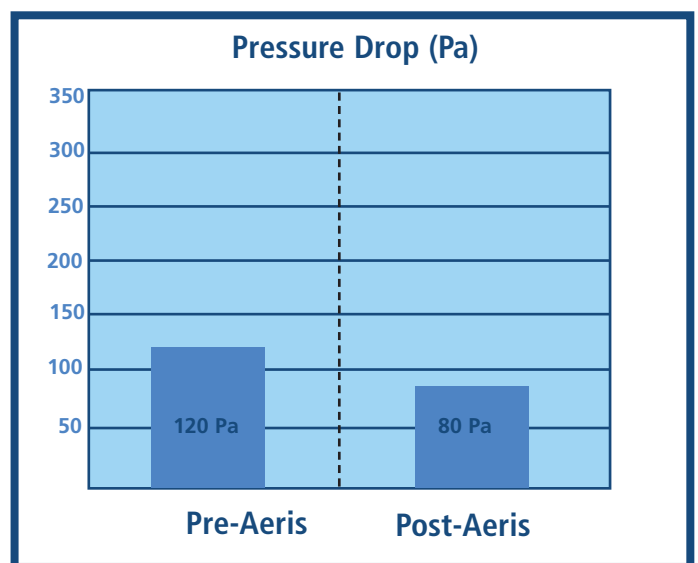
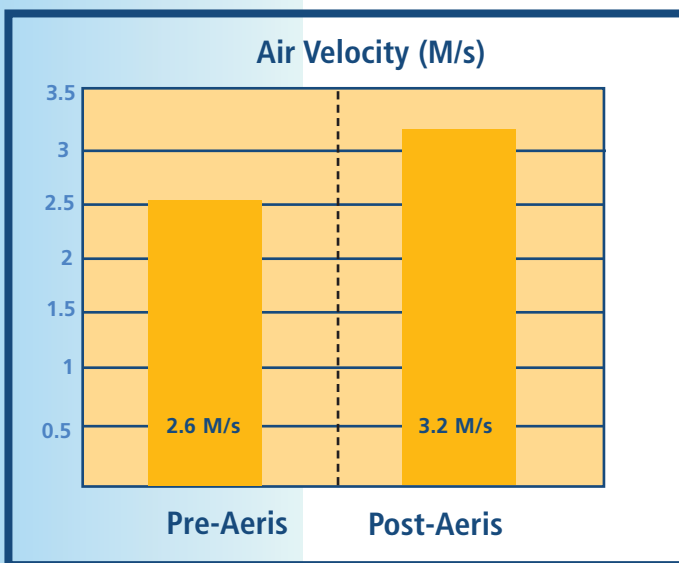
It is commonly known that reduced airflow in HVAC systems via contaminated heat exchanger coils compromises energy efficiencies.

AerisGuard residual treatments prevent growing layers of contamination within the heat exchanger, maintaining increased airflows and, most importantly, energy efficiency.

Benefits include:

- Increased energy efficiency
- Elevated Indoor Air Quality
- Safer and cleaner HVAC facilities
- Restores HVAC's mechanical integrity
- Prolonged life of mechanical equipment

AerisGuard Improves Air Flow and Reduces Pressure Drop



AerisGuard Bioactive Coil Treatment increases the heat exchangers performance by maintaining improved airflow and reduced pressure drops.

The AerisGuard Protection Process

Step 1 - BIOACTIVE COIL CLEANER

Features

- Non-corrosive multi-enzyme cleaning process
- Specifically formulated to attack and remove all organic deposits found on heat exchange coils
- Broad spectrum of enzymes formulated to break down biological material
- Biodegradable and washes down the drain safely
- Highly concentrated bulk product 1:20 litre dilution
- Non toxic

Benefits

- Dramatically improves the air quality in a building
- Cleaning process can be used on all heat exchange coils
- Saves time - no detailed preparation required
- Safe in all working environments - easy to use
- Will not damage heat exchange coils
- No need for high pressure washing in most instances



Step 2 - BIOACTIVE COIL TREATMENT

Features

- Dramatically reduces contamination of heat exchange surfaces for a 12 month period
- Residual biostat slowly released over 12 months
- Prevents blockages of heat exchange coils
- No dangerous VOC's created
- Designed for all HVAC Systems

Benefits

- Dramatically improves air quality in a building
- Restores energy efficiency
- Extends equipment life
- Maintains air flow
- Optimises system efficiency
- Reduces corrosion from microbial by-products



Step 3 - BIOACTIVE CONDENSATE PAN TABLET

Features

- Eliminates contamination formation in drain pans and drain lines

Benefits

- Dissolves slowly over an extended period of time
- Prevents slime blocking drain lines



Step 4 - BIOACTIVE SURFACE TREATMENT

Features

- Remains inert on surfaces until activated by moisture
- Broad-spectrum activity against all moulds and bacteria
- Application is fast, efficient and easy
- Specifically designed for use within all HVAC systems with no off gassing
- No dangerous VOC's created

Benefits

- Controls build-up of contamination in HVAC systems improving indoor air quality
- Ensures treated surface remains free of harmful contamination for an extended period of time
- Non toxic



The AerisGuard Range of Products

AerisGuard™ Bioactive Coil Cleaner targets all commercial heat exchange coils. The cleaner strips away any existing bacteria, fungi and other contaminants, ensuring a clean surface for the application of Bioactive Coil Treatment. The product is non-corrosive and environmentally safe.

AerisGuard™ Bioactive Coil Treatment is applied to cooling and heating coils, post-cleaning. The treatment leaves a residual coating on the coil surface which prevents any potential contamination from returning for up to 12 months, delivering tangible benefits to the total building environment.

AerisGuard™ Bioactive Surface Treatment is used in cleaning and treating the walls, floors and ceilings of air-handling rooms and ducts, preventing the growth of bacteria and fungi for up to 12 months.

AerisGuard™ Bioactive Condensate Pan Tablet is an advanced multifunctional composition containing enzymes and biostats. The tablet eliminates blockages that can cause condensate overflows.

AerisGuard™ Bioactive Filter Treatment allows the migration of active compounds into the dust particles trapped within the filter, reducing fungal growth. The product extends filter life and improves dust retention, reducing energy consumption and improving the quality of the building's indoor air.

AerisCoat™ Onsite provides full corrosion protection for heat exchange coils. The water-based coating is designed to allow safe and effective application in the field. The corrosion protection achieved increases the mechanical life and efficiency of new and existing condensers.



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