

## Product overview



# AerisGuard™ Bioactive Enzyme Coil Cleaner

The AerisGuard™ Bioactive Enzyme Coil Cleaner is a proprietary enzyme based cleaner that targets all domestic, commercial and industrial air handling installations. The product is designed for application to cooling and heating coils in situ as part of mechanical plant maintenance. The cleaner strips away any existing bacteria, fungi and other contaminants also removing any pre-existing coatings, ensuring a clean surface for the application of the AerisGuard™ Bioactive Coil Treatment. The product is non-corrosive and completely biodegradable.



## Features

- Non-acid, non alkaline cleaning process
- Safe for use on indoor cooling coils
- Specifically formulated to attack and remove all organic deposits found on heat exchange coil
- Broad spectrum of enzymes formulated to break down biological material
- Completely biodegradable and washes down the drain safely
- Reducing need for heavy duty pressure washing of fins
- Highly concentrated bulk product
- Compatible with all common cleaning processes

## Benefits

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

## Directions for use

Mix lukewarm water with AerisGuard™ Bioactive Enzyme Coil Cleaner 20:1. Using a pressure spray apply the AerisGuard™ Bioactive Enzyme Coil Cleaner solution starting from the tops of the coils, covering the entire surface of the coil and paying special attention to any dirty areas. Concentrating the solution into the top of the coil will assist in capillary action down through the coil centre.

Leave AerisGuard™ Bioactive Enzyme Coil Cleaner in contact for at least 15–20 minutes depending on level of contamination. The use of AerisGuard™ Bioactive Enzyme Coil Cleaner also frees biofilm lodged in the drain line. This could cause drain lines to initially become blocked. Periodic inspections during the entire process are highly recommended. Flushing the drains periodically will reduce the possibility of blockages.



# AerisGuard™ Bioactive Coil Treatment

The AerisGuard™ Bioactive Coil Treatment product is applied “in situ” to cooling and heating coils after they have been cleaned with AerisGuard™ Bioactive Coil Cleaner and existing biofilm removed. The treatment leaves a thin coating on the coil surface. The product is formulated to release a small amount of the active biocides over a period of at least 12 months after which time the AerisGuard™ Bioactive Coil Cleaner is used to remove the existing coating and the treatment is re-applied.

The heat exchange coils provide perfect environments for the colonisation of both mold and bacteria. The AerisGuard™ Bioactive Coil Treatment system actively protects all coil surfaces from any contamination. The energy efficiency of the air handling system will be maintained over the life of the treatment.

Investments in energy efficiency are considered doubly attractive:

- **Energy savings equate directly to financial gains; and**
- **The investment in strategies to reduce greenhouse gas emissions is of global significance.**



## Features

- Dramatically reduces contamination of heat exchange surface for a 12 month period
- Residual biocide slowly releases over 12 months
- Stops blockages of heat exchange coils
- Designed for use within high velocity air flow systems
- Compatible with all common cleaning processes

## Benefits

- Dramatically improves the indoor air quality in buildings
- Reduces energy usage
- Reduces maintenance
- Prolongs equipment life
- Improves air flow across heat exchange coils
- Improves system efficiency dramatically
- Reduces corrosion
- No harmful VOCs produced

## Directions for use

Once the coils have been allowed to dry for at least 20 minutes after cleaning with AerisGuard™ Bioactive Coil Cleaner application of AerisGuard™ Bioactive Coil Treatment can begin. This treatment is applied using the electric type airless spray gun.

Adjust spray mist to the finest particle size possible. A thin coating is all that is required on all coil surfaces to ensure an efficacious result.



## AerisGuard™ Bioactive Filter Treatment

The AerisGuard™ Bioactive Filter Treatment is applied to air filters at the time of installation. The filter treatment is based on a patented technology that ensures a slow migration of a combination of active compounds into the dust particles trapped within the filter.

Dust particles provide a source of nutrients for fungi, which very rapidly colonise untreated air filters. Towards the end of its working life a typical filter is highly contaminated. Aside from the potential human health consequences, it is largely the proliferation of the fungal root system that ultimately leads to the filter becoming blocked. Application of the AerisGuard™ Bioactive Filter Treatment dramatically reduces this fungal growth, thereby extending the filter life, improving the filter's dust retention, reducing energy consumption and improving the quality of the building's indoor air.



### Features

- Residual biocide coated onto filter fibres, which stops mould and fungus from colonising filters
- Treatment migrates to dust particles making it toxic as a food source for microorganisms
- Treatment is designed to stay on filter fibres even under extreme air flows
- By controlling fungus and mould colonization the filter airflow is maintained
- The treatment assists in the capture of finer particles reducing their harmful affect on the indoor air quality

### Benefits

- Improves the indoor air quality within a building
- Improves airflow by maintaining uniform pressure drop across the filter
- Increases filter efficiency
- Increases filter life
- Reduces the number of filter exchanges

### Directions for use

Following filter cleaning or replacement apply the product directly to the filter by way of an electric airless spray unit, which must have a minimum capacity of 2200 P.S.I. working pressure. Spray tips will need to be adjusted according to the unit used to ensure an even coverage of the material being sprayed. A compressor air type system may be advantageous if large banks of filters are to be treated. Air compressor type equipment allows more adjustment and a finer atomisation may be achieved.

AerisGuard™ Bioactive Filter Treatment should be applied evenly and liberally to the media surface to ensure the filter media is dampened with the treatment. Ensure that if the filters are multiple pocket type penetration is achieved through the depth of the pockets.



# AerisGuard™ Bioactive Surface and Duct Treatment

When inadequately maintained, the air handling room surfaces and air handling ducts can become colonised with bacteria and fungi. **AerisGuard™ Bioactive Surface and Duct Treatment** is a product for use in treating the walls, floors, ceilings of these air-handling rooms and ducts, preventing the growth of bacteria and fungi for extended periods of time. The product can be damp mopped or wiped onto all surfaces physically accessible and can be fogged through the system to ensure total coverage.

The AerisGuard™ Bioactive Surface and Duct Treatment is a sanitiser/residual treatment that ensures any residual spores are controlled following mechanical cleaning and general cleaning. AerisGuard™ Bioactive Surface and Duct Treatment is designed to prevent further colonisation of the surfaces to which it is applied for an extended period.



## 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 high velocity systems with no off gassing
- No dangerous VOCs created

## Benefits

- Controls build-up of contamination in air-conditioning systems improving indoor air quality
- Multiple modes of application including direct spray, cold fogging and surface wiping
- Specifically designed for and used on all general surfaces within air-conditioning systems
- Ensures treated surface remains free of harmful contamination for an extended period of time.

## Directions for use

The HVAC system should be cleaned using source removal mechanical cleaning methods designed to safely extract contaminants from within the HVAC system. Mechanical cleaning may employ vacuum units, mechanical and hand brushes, pressurized air sources, and other tools to dislodge attached particulate and debris and convey it to a collection device in a controlled manner. For additional information on source removal please review NADCA standard ACR2002. For best precleaning results use AerisGuard™ Bioactive Surface and Duct Cleaner to following contact vacuuming.

For AerisGuard™ Bioactive Surface and Duct Treatment the application rate is 60 mL per m<sup>2</sup> for all application methods: Electric spray unit for direct surface application; Or fan assisted fogging apparatus capable of 10–30 Micron atomised particle delivery; Or apply with mop or cloth. Allow to dry.



## Aeris Guard Bio-Active Condensate Pan Tablet

- The **Aeris Guard™ Bioactive Condensate Pan Tablet** is an advanced multi-functional composition containing specially selected Enzymes and Biocides.
- The tablet eliminates biofilm formation in drain pan and drain lines reducing the risk of blockage and condensate overflow.
- Tablets are supplied in two sizes which can be used individually or in multiples to ensure adequate system coverage is achieved.
- The unique cage design containing the tablet has been specifically engineered to ensure the tablet stays where it is located to achieve optimum results.
- Tablets are designed to dissolve slowly over several months dependent on condensate levels within the system providing protection between maintenance inspection intervals.
- Environmentally safe for waste water discharge.
- As a guide use small tablet up to 10kW systems and large tablet over 10kW systems.



AGDTL5 Pack of 5  
For systems over 10kW

AGDTS5 Pack of 5  
For Systems up to 10kW

