



Document Type / Category Instructions For Use (IFU)

Document Number, Issue, Title IFU 002 Rev02 – Application of AerisGUARD Coil Treatment

1. PURPOSE

This Treatment Procedure outlines the process to effectively treat Heat Exchange Coils to provide a barrier preventing re-accumulation of debris for up to 12 months.

- Provided the process is completed as outlined and undertaken by an AerisGUARD Certified Applicator, Aeris will warrant the surface of the coil for a period of 12 months.

This IFU covers the steps and actions that need to be taken in the use of AerisGUARD Coil Treatment products.

All Aeris Environmental personnel, sub-contractors and certified applicators are expected to take an active role in establishing, implementing and maintaining this Procedure in line with this IFU according to their role and responsibility.

The purpose of acting in accordance with this IFU is to have an uninterrupted, smooth process that ensures that correct process and use of the products are followed. This IFU shall also be part of Aeris' continuous improvement initiative.

2. PROCEDURE DESCRIPTION AND PROCESS FLOW

The treatment of Heat Exchange Coils with AerisGUARD Coil Treatment should be conducted by a Certified AerisGUARD Applicator in accordance with Aeris Environmental Recommendation, this IFU, your work order and / or the job specification. This process should follow the application of AerisGUARD Multi-Enzyme Coil Cleaner and the process outlined in Aeris Environmental **IFU 001 Cleaning, Preparation and Removal of Organic and Inorganic Debris from Heat Exchange Coils**. This process improves energy efficiency, reduces running costs while improving indoor air quality.

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The steps in this procedure are as follows:

1. Preparation
 - a. Product Handling & Packaging
 - b. Apparatus & Equipment Required
 - c. Product Dilution and Application Rates
 - d. PPE and OH&S Requirements
2. Setup
3. Application Process
4. Clean up Process

3. PROCEDURE

1. Preparation

a. Product Handling & Packaging

Applicators should consult the product Safety Data Sheet (SDS) prior to use and handling.

AerisGUARD Coil Treatment product comes in a ready to use formulation, the product is available in 200g (7.05 oz) Aerosol Cans & 5L (1.32 US Gal) Bulk containers with both products having a shelf life of 3 years from the date of manufacture.

Always store the product out of direct sunlight and not exposed to hot environments for extended periods of time.

b. Apparatus & Equipment Required

Tarpaulin/Plastic Sheeting

Spray gun with fine mist

(Airless spray gun suggested to apply bulk product)

Occy-straps

Ladder

Clamps/Tape

Power leads

Residual Current Device (RCD)

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c. Product Dilution and Application Rates

The 200g (7.05 oz) cans are designed for quick and simple application to coils such as indoor high wall evaporator coils and the maximum coil depth to be treated with this application is 100mm (4 inches) (if only accessible from one side use airless gun on coil 100mm/4 inches). Coils thicker than this will require an airless / air assisted mechanical application process utilising the 5L (1.32 US Gal) bulk product.

The application rate of the AerisGUARD Coil Treatment 550mL /m² (1.73 fl oz/sq ft) of Coil face (based on 12 fins/inch and 100mm/4 inches depth).

275mL of solution should be applied to each side of the 1m² (10.76 sq ft) coil face.

d. PPE and OH&S Requirements

- Gloves (*hi density rubber are recommended*)
- full or half face masks with filters rated for pesticides and solvents,
- safety goggles (*Wraparound Clear are recommended*)
- Disposable suit is recommended to keep clean.
- type 1 heavy duty safety boots should always be worn.

Note* Other safety equipment may be required. OH&S requirements can vary geographically or by project nature.

2. Setup

- a. Ensure that the unit is “off line / isolated from operation” prior to and during the entire Application process. This must be done by an appropriately certified person and may require arrangement with the engineering staff at the site if necessary.
- b. Ensure that equipment is protected by a (RCD) Residual Current Device to protect the user from electrical shock.
- c. Ensure equipment being used is in good working order & tagged (if necessary).
- d. Other parts of the system may need to be covered as well, e.g. fan motor and sensors located near the area to be treated.
- e. All traces of dirt must be removed before leaving site.

3. Application Process

a. Prepare the coil for application

Prior to the application of the Aeris Coil Treatment the coil should be prepared following the process outlined in Aeris Environmental **IFU 001 Cleaning, Preparation and Removal of Organic and Inorganic Debris from Heat Exchange Coils**. This step safely cleans & removes debris from air cooled coils.

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b. Application of AerisGUARD Coil Treatment

1. ensure the unit is isolated

All personal safety equipment must be worn for the remainder of the procedure.

Ensure there are no ignition sources with 30m/100 feet of the area of application.

2. Apply AerisGUARD Coil Treatment

- To apply the BULK TREATMENT, use electric airless spray gun
 - Decant required product into tank / chamber of airless gun
 - Set nozzle on gun to the finest mist / spray setting possible
 - ENSURE area is WELL ventilated
 - Spray treatment on to coil area passing over the coil top to bottom and left to right then bottom to top right to left
 - Ensuring a light coverage of 550mL per m² (1.73 fl oz/ sq ft) of coil face 100mm (4 inches) deep
- To apply the AEROSOL TREATMENT, use Aerosol can
 - ENSURE area is WELL ventilated
 - Hold the can 20cm (8 inches) from the face of the coil
 - Spray treatment on to coil area passing over the coil top to bottom and left to right then bottom to top right to left
 - Ensuring a light coverage of 550mL/m² (1.73 fl oz/ sq ft) of coil face 100mm (4 inches) deep
- Wherever possible always apply Treatment to both sides of the coil, this is recommended to ensure best results and necessary for the 12 month Aeris Environmental warranty. (See Aeris Website for details)
- Leave AerisGUARD Coil Treatment to cure for the required time prior to returning the machine to active operation.
 - BULK APPLICATION
 - requires minimum of 20 – 30 mins curing time, ensure that the surrounding area is well-ventilated and no alcohol odour is present prior to turning the unit (fans) back on.
 - AEROSOL APPLICATION
 - requires 10-15 mins curing time, ensure that the surrounding area is well ventilated and no alcohol odour is present prior to turning the unit (fans) back on.

**** Both forms of application leave a coating that lasts for up to 12 months.**

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4. Clean Up

- Ensure that all equipment is cleaned as per the manufacturer's recommendation, packed up and removed from the area
- Airless spray gun should immediately be rinsed with water on completion of works and run for a short period until no odour is present.
- Leave the worksite as you found it
- Remove and dispose of all empty product containers
- Remove all rubbish you have taken on site / any plastic sheeting blocking ductwork
- Return the machine to correct operational function

4. WARRANTY REGISTRATION

The 12 Month Performance warranty can only be activated by a Certified AerisGUARD Applicator (See Aeris Website)

- To activate the warranty, the applicator MUST
- Complete and attach the certification sticker to the asset treated
- Scan the QR code on the sticker and register and submit the asset and job details.
 - b. Site name
 - c. Unit ID number
 - d. Treatment applied
 - e. Applicator contact details
 - f. Pre application Picture
 - g. Post application Picture
 - h. Picture of the certification sticker
- A certificate of certification can be requested for the client for an asset or whole building if required.
- Once the warranty is activated the applicator who submitted the original warranty form will be notified in 11 calendar months that the asset requires reapplication to maintain the warranty. This process must be completed every 12 months. After the initial cleaning process, the subsequent clean will be less labour and time intensive.

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Recommended additional process

It is highly recommended that the entire Unit be cleaned and treated with AerisGUARD Surface Cleaner & Treatment (IFU 003 and 004) products as well as the use of Condensate Drain Pan Tablets this will provide long term benefits:

- Prevention from reaccumulation of debris
- Sustained and long-term coil efficiency
- Improved machine operational performance
- Superior indoor air quality
- 12-month Performance Warranty
- Annual reminder to maintain warranty

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