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<b>Document Type / Category</b>	Instructions For Use (IFU)
<b>Document Number, Issue, Title</b>	IFU 018, Rev01 – Aerosol Treatment of Heat Exchange Coils

## 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 Indoor 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 Indoor Coil Treatment Aerosol should be conducted by a Certified AerisGUARD Applicator in accordance with Aeris Environmental recommendations, 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.

Author: M.Kritzler Reviewed by: M. Heng	Issued Date: 19/03/2018 Supersedes: N/A – First issue	Page 4 of 4 Revision: 01
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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 Indoor 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 (refer to **IFU 002**) 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

Aerosol Indoor Coil Treatment

Tarpaulin/Plastic Sheeting - if needed

Occy-straps - if needed

Ladder - if needed

Clamps/Tape - if needed

Author: M.Kritzler Reviewed by: M. Heng	Issued Date: 19/03/2018 Supersedes: N/A – First issue	Page 4 of 4 Revision: 01
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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 (refer to IFU 002).

***The application rate of the AerisGUARD Indoor Coil Treatment 550mL /m<sup>2</sup> (1.73 fl oz/sq ft) of Coil face (based on 12 fins/inch and 100mm/4 inches depth). 225mL (7.45 fl oz) of solution should be applied to each side of the 1m<sup>2</sup> (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.

Author: M.Kritzler Reviewed by: M. Heng	Issued Date: 19/03/2018 Supersedes: N/A – First issue	Page 4 of 4 Revision: 01
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### 3. Application Process

#### a. Prepare the coil for application

Prior to the application of the AerisGUARD Indoor 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.

#### b. Application of AerisGUARD Indoor 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 Indoor Coil Treatment

- To apply the COIL TREATMENT using 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 (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 Indoor Coil Treatment to cure for the required time prior to returning the machine to active operation.

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.

Author: M.Kritzler Reviewed by: M. Heng	Issued Date: 19/03/2018 Supersedes: N/A – First issue	Page 4 of 4 Revision: 01
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#### 4. Clean Up Process

- 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.

Author: M.Kritzler Reviewed by: M. Heng	Issued Date: 19/03/2018 Supersedes: N/A – First issue	Page 4 of 4 Revision: 01
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