



Document Type / Category Instructions For Use (IFU)

Document Number, Issue, Title IFU 003 Rev01 – Clean walls, floors and surrounds of HVAC&R systems

1. PURPOSE

This Cleaning Procedure outlines the process to effectively clean walls, floors and surrounds within the HVAC&R system.

This IFU covers the steps and actions that need to be taken in the use of AerisGUARD Surface Cleaner.

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 cleaning of walls, floors and surrounds of HVAC&R systems 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 be completed in conjunction with the application of AerisGUARD Bioactive Surface Treatment as outlined in **IFU 004 AerisGUARD Bioactive Surface Treatment** and **IFU 008 Surface Treatment using Aerosol on HVAC&R Surfaces (Walls, Floors & Surrounds)**.

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

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3. PROCEDURE

1. Preparation

a. Product Handling & Packaging

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

AerisGuard Surface Cleaner is supplied in a bulk concentrate 5L (1.32 US Gal) and 1L (0.26 US Gal) ready to use spray bottle. Both these products have 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

Application cloths / sponge

Occy-straps

Mop & Bucket

Ladder Clamps/Tape

Power leads

Empty spray bottle/pump pack

(For application of bulk product)

c. Product Dilution and Application Rates

The 1L (0.26 US Gal) Spray bottles are designed for quick and simple application to surfaces as required whereas for larger areas or bigger jobs we recommend utilising the 5L (1.32 US Gal) bulk product.

The application rate of Surface Cleaner is use as required, physically wiping the surface with application cloths, sponge or mop to remove Organic and Inorganic matter.

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*)
- full body waterproof suit with hood 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.

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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 equipment being used is in good working order.
- c. Remove filtration media to protect the air filters from any deposits of dislodged debris, cleaning solution, treatment solution or water if needed. A tarpaulin or plastic sheeting may be used to cover these if required.
- 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.
- f. DO NOT Pressure Clean perforated air handler linings.

3. Application Process

Application of AerisGuard Surface Cleaner

- i.) 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 of the area of application.

- ii.) To apply Surface Cleaner bulk product, use pump spray unit as required
 - Decant required product into tank / chamber pump spray
 - Set nozzle on spray to misting setting
 - ENSURE area is WELL ventilated
 - Spray solution directly on the affected surface and wipe off using a clean cloth or sponge
- iii.) To apply the 1L (0.26 US Gal) spray product
 - ENSURE area is WELL ventilated.
 - Set nozzle on spray to mist setting.
 - Spray solution directly on the affected surface and wipe off using a clean cloth or sponge.

- Ensure all visible contamination is removed.
- Take care to not use contaminated application equipment when moving from surface to surface.
- ALL surfaces within the HVAC&R system can be cleaned with the AerisGUARD Surface Cleaner excluding any electrical components.

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4. Clean Up Process

- Ensure that all equipment is cleaned as per the manufacturer's recommendation, packed up and removed from the area.
- Leave the worksite as you found it
- Remove and dispose of all empty product containers.
- Remove all rubbish you have brought on site / any plastic sheeting blocking ductwork.
- Return the machine to correct operational function.

Recommended additional process

It is highly recommended that all cleaned surfaces be treated with AerisGUARD Bioactive Surface Treatment as found in **IFU 004 AerisGUARD Bioactive Surface Treatment for:**

Prevention from recontamination (microbial growth)

- Improved machine operational performance
- Cleaner indoor air quality
- 12-month Anti-Microbial Warranty
- Annual reminder to maintain warranty & AS3666 compliance.

Or treated with AerisGUARD Surface Treatment Aerosol as found in IFU 008 for:

- Improved machine operational performance
- Cleaner indoor air quality

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