



**Document Type / Category** Information For Use (IFU) / Clean and Sanitise Walls, Floors and Surrounds within HVAC&R systems.

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**Document Title** Clean and Sanitise walls, floor and surrounds within HVAC&R Systems

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2.2	Information For Use (IFU) document	29/09/2016	M. Kritzler	S.Gregson

## 1. PURPOSE

This Anti-Microbial Cleaning and Sanitisation Procedure outlines the process to effectively clean and sanitise walls, floors and surrounds within the HVAC&R system. This helps the end use customer maintain compliance with -

- AS3666
- BA19

This IFU covers the steps and actions that need to be taken in the use of AerisGuard Surface Cleaner and Sanitiser products. The IFU meets the requirements of AS/NZS ISO 9001: 2008 standards.

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's continuous improvement initiative.

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## 2. PROCEDURE DESCRIPTION AND PROCESS FLOW

The Cleaning and Sanitising of walls, floors and surrounds within 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 Antimicrobial Surface Treatment as out lined in **IFU 004 Bioactive Surface Treatment of walls, floor and surrounds in HVAC&R Systems.**

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 & OHS Requirements
2. Setup
3. Application Process
4. Cleanup Process
5. End of IFU

## 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 and Sanitiser is supplied in a bulk concentrate 5L and 1L 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)

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c. Product Dilution and Application Rates

The AerisGuard Surface Cleaner and Sanitiser is supplied in Ready to use form in 1L Spray bottles & 5L bulk containers. The 1L Spray bottles are designed for quick and simple application to surfaces as required whereas for larger areas or bigger jobs we recommend utilizing the 5L bulk product.

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

d. PPE & OHS 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 (*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 equipment being used is in good working order.
- c. Remove filtration media to protect the air filters from any deposits of dislodged contaminants, cleaning solution, treatment solution or water. 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.

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### 3. Application Process

#### Application of AerisGuard Surface Cleaner and Sanitiser

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.) Apply Surface Cleaner and Santiser

- To apply the bulk treatment, use simple 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 spray product

- ENSURE area is WELL ventilated
- 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

- 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 and sanitised with the AerisGuard surface cleaner excluding any electrical components.

### 4. Clean Up

- Ensure that all equipment is cleaned as per the manufacturers 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.

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**Recommended additional process**

It is highly recommended that all cleaned and sanitised surfaces be treated with AerisGuard Surface Treatment as found in **IFU 004 Surface Treatment of HVAC&R Surfaces (Walls, floor and surrounds)**.

Prevention from recontamination (microbial growth)

- Sustained and long-term coil efficiency
- Improved machine operational performance
- Superior indoor air quality
- Compliance with AS3666
- 12-month Anti-Microbial Warranty
- Annual reminder to maintain warranty & AS3666 compliance.

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