



We Care For Your Health Asset  
& The Environment

### Disclaimer:

Strict adherence to the Standard Operating Procedure (SOP) is required to obtain the highest quality result(s).

Advisable to hire an accredited Applicators Trainer & Certified by Airestec Sdn Bhd for services. Kindly contact us for clarification. (Only for Malaysia)

## HVAC / AIR-CONDITIONING / ACMV / REFRIGERATION COIL DECONTAMINATION & DISINFECTION SERVICE

- Specifically designed for cooling coil decontamination/deep cleaning & disinfectant for all types of HVAC / Air-Conditioning / ACMV / Refrigeration system (i.e.: AHU, FCU, Split Unit etc.).
- Effectively remove grimes, biofilm (bacteria, fungi & mould) from up to 12-inches thick of cooling coil.
- Kill 99.99% of viruses including COVID-19 and the variants.
- Protect Human Health, building wellness & Improve Quality of Life.
- Non-Corrosive/Non-Destructive to Aluminium, Copper, Rubber, Plastic, Wood & Paints.
- Prevent Asset Damage, Maintain Energy & System Efficiency.
- Certified Green Product & Services.
- Complements existing & potential GREEN BUILDINGS.

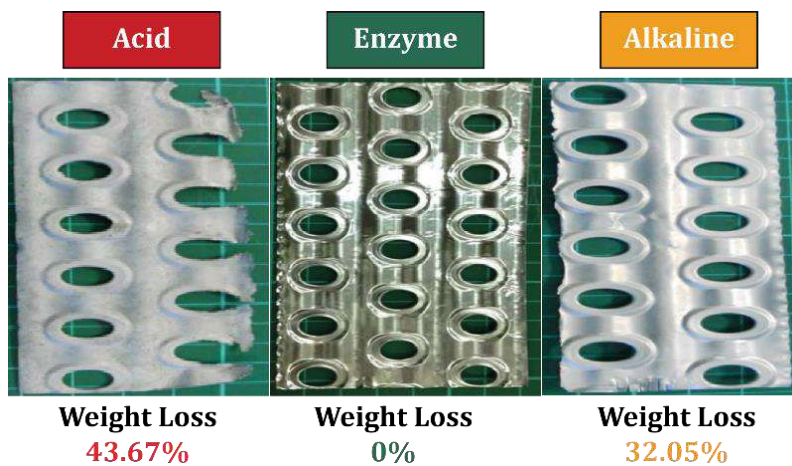


# HVAC / AIR-CONDITIONING / ACMV / REFRIGERATION COIL DECONTAMINATION & DISINFECTION SERVICE

HVAC / Air-Conditioning / ACMV / Refrigeration systems is prone to microbial proliferation and biofilm formation due to its dark and moist environment. Presence of these contaminants will lead to numerous problems including poor Indoor Air Quality (IAQ) which will affect human health and productivity, systems inefficiency, high energy & electricity consumption, rapid equipment wear & tear, unpleasant odour and thermal discomfort.

As a service provider who has been in this industry for decades, we have come out with a Standard Operating Procedure (SOP) specifically for HVAC / Air-Conditioning / ACMV / Refrigeration Decontamination Service. Our SOP is made based on the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) guidelines.

Our services using multi-enzyme based product which can penetrate then remove the biofilms (bacteria, fungi & mould) from cooling coils up to 12-inches thick. Our BMED is a nano-based (7.89nm), that can penetrate into crack, crevices of the cooling coils without degradation.



Did you know that Airbus and Boeing's maintenance does not allow to use of any solution that can cause corrosion and oxidisation? Therefore, an accredited laboratory has tested and verified that our solution conformed to all tests during the maintenance materials evaluation process. To conclude, our solution is proven safe for aircraft maintenance.

Upon the completion of the decontamination of the biofilms (bacteria, fungi and mould) process, a virucidal disinfection process will be applied. Our virucidal disinfection service uses a **non-toxic** and **eco-friendly** product called BVSD. It is formulated according to the Centres for Disease Control and Prevention (CDC), World Health Organization (WHO) and Environmental Protection Agency (EPA) guidelines. The solution is proven to effectively eliminate **99.99% of all types of viruses** including Coronavirus including **SARS-CoV-2** that causes **COVID-19** infection and its variants, Influenza, Rhinovirus, Enterovirus that causes Hand, Foot & Mouth Disease, Measles virus, Rotavirus, Feline Calicivirus and Parvovirus, based on European Standard EN14476.

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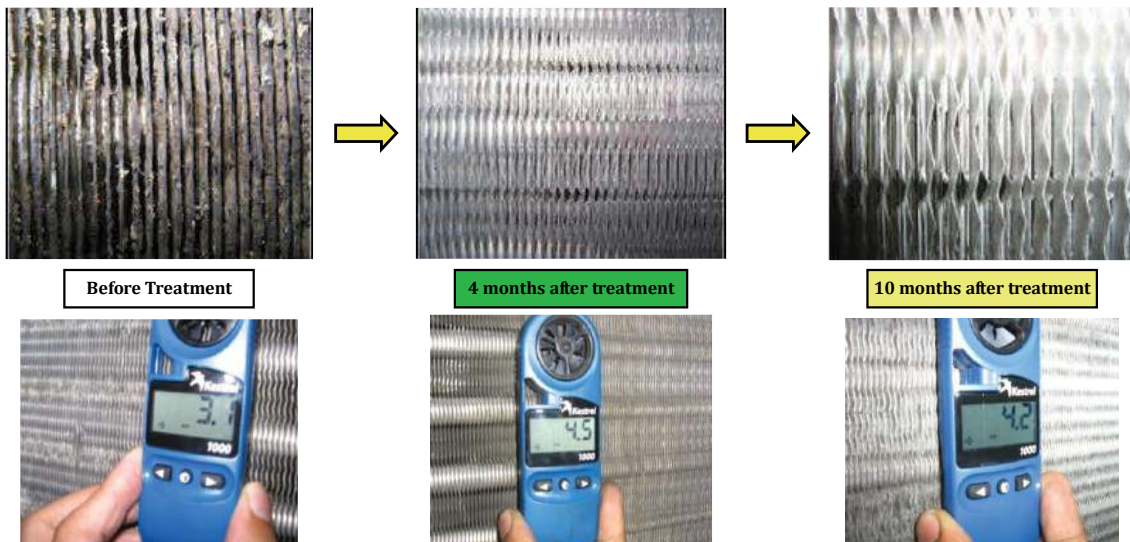
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## **HVAC / AIR-CONDITIONING / ACMV / REFRIGERATION COIL TREATMENT SERVICE**

- **Specifically designed for cooling coil treatment on all types of HVAC / Air-Conditioning / ACMV / Refrigeration system (i.e.: AHU, FCU, Split Unit etc.).**
- **Delay the growth of biofilms (bacteria, fungi & mould) with 12-months warranty.**
- **Protect Human Health, building wellness & Improve Quality of Life.**
- **Safe to Aluminium, Copper, Rubber, Plastic, Wood & Paints.**
- **Maintain Energy & System Efficiency.**
- **Reduces breakdown & Maintenance Cost.**

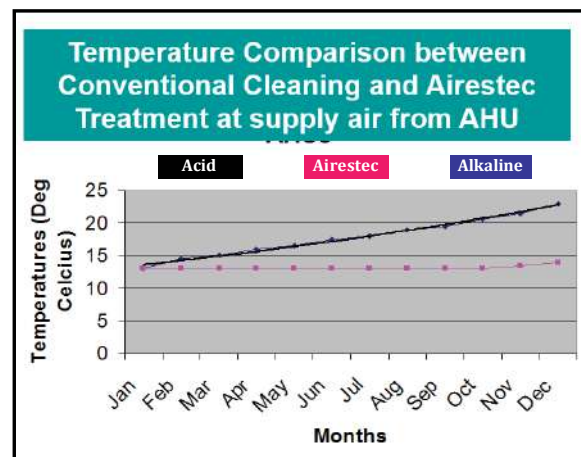
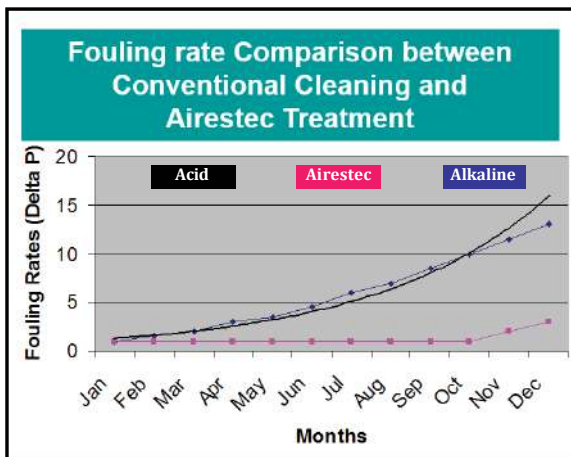


# HVAC / AIR-CONDITIONING / ACMV / REFRIGERATION COIL TREATMENT SERVICE



This process begins after the cooling coil decontamination / deep cleaning service. Based on our experience, the biofilms/microorganism will start to grow in one week, so this service helps to hinder the growth for 12-months.

Did you know that biofilms would secrete organic acids during the growing process, resulting in localized corrosion of the cooling coil and causing the heat exchange efficiency to drop? Consequently, corroded cooling coils will reduce energy efficiency and increase energy bills.



Thus, the absence of biofilms will subsequently improve Indoor Air Quality (IAQ), human health, productivity, energy efficiency by up 10% through heat exchange improvement and airflow. Hence, it is advisable to do the treatment service to maintain the system performance while protecting human wellness.

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## HVAC / AIR-CONDITIONING / ACMV SYSTEM FILTER TREATMENT SERVICE

- **Specifically designed for filter treatment for all types of HVAC / Air-Conditioning / ACMV system (i.e.: AHU, FCU, Split Unit etc.).**
- **Delay the growth of bacteria, fungi and mould roots.**
- **Protect Human Health, building wellness & Improve Quality of Life.**
- **Improves filter dust retention.**
- **Prevents spores infiltration.**
- **Extends Secondary and HEPA Filters**
- **Maintain Energy & System Efficiency.**
- **Complements Particulate Matter (PM) reduction.**



# HVAC / AIR-CONDITIONING / ACMV SYSTEM FILTER TREATMENT SERVICE

Bacteria, fungi and mould penetrate the air-conditioning system through filter media and spread to every corner of the building through air circulation. Did you know that a moist and dark environment is prone to growth of bacteria, fungi and mould? Thus, the dust particles on the surface of the filter media trap the water droplets and have become the ideal place for them to grow.

Filter media full of dust and fungal colonization significantly reduces airflow and results in a surge in energy consumption. Moreover, the Indoor Air Quality (IAQ) will be compromised and subsequently cause health issues such as respiratory problems, headache, eye, nose and throat irritation, aggravation of asthma, fever, and even allergies.



## How does it work?

The filter media need to be changed or cleaned prior to treatment process. Then, spray the product evenly on the filter media before installing them. Make sure the filter media is dry before application. The filter media is the first line of defence to prevent dust, bacteria, fungi and mould from penetrating the air-conditioning system. It even help to delay bacteria, fungi and mould growth process.

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## DUCT TREATMENT SERVICE

- **Specifically designed for duct treatment.**
- **Delay the growth of biofilms (bacteria, fungi & mould) with 12-months warranty.**
- **Protect human health, building wellness & Improve Quality of Life.**
- **Reduces operational & maintenance cost.**
- **Increases productivity & reduces absenteeism.**
- **Conducive working environment.**



# DUCT TREATMENT SERVICE

Did you know that the duct is also one of the perfect environments for bacteria, fungi and mould to grow? They will continuously circulate the contaminated air until decontamination (deep cleaning) process is done.

Bacteria, fungi and mould creates bad Indoor Air Quality (IAQ) and trigger health issues such as headache, nose, eye and throat irritation, aggravation of asthma, lung infection, fatigue, fever, and allergies.

## How does it work?

Duct treatment service will be applied after the decontamination/deep cleaning prior to treatment. It is applied using hurricane or tornado misting machines to ensure total coverage of the internal duct surfaces to delay the proliferation of bacteria, fungi and mould.

Airestec Duct Treatment service can delay the growth of microorganisms, improve airflow and enhance Indoor Air Quality (IAQ). Besides, it also helps to ensure that they are free from bacteria, fungi and mould, and even fire hazards.

Most people spend 70% of their time in the indoor environment. Therefore, a good Indoor Air Quality (IAQ) is vital to guarantee the health of occupants. Slowly but surely, the effects from Sick Building Syndrome will result in devastation to human health, quality of life and long-term health effects. Assurance in high human density areas.



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## **SURFACE TREATMENT & DISINFECTANT SERVICE**

- **Able to inactivate 99.99% of viruses including COVID-19 & its variants.**
- **Applicable for all types of surfaces of HVAC / Air-Conditioning / ACMV / Refrigeration system (Cooling coil, Duct, etc.).**
- **Applicable to various sectors including Hospitals, Pharmaceutical, Clinics, Food & Beverages Industry, Schools, Offices, Public Spaces, Clean Rooms, Hospitality, Ships, Trains, Buses, Residential Areas, etc.**
- **It can be used to disinfect containers, packing & storage rooms, storages tanks, closures, processing equipment & isolators.**
- **Applied via misting for total area disinfection or via spray for surface disinfection.**
- **For total area disinfection & it is recommended to enter the premises after 2 hours.**
- **Not suitable for living things (i.e.: human & animals) & direct food contact.**

# SURFACE TREATMENT & DISINFECTANT SERVICE

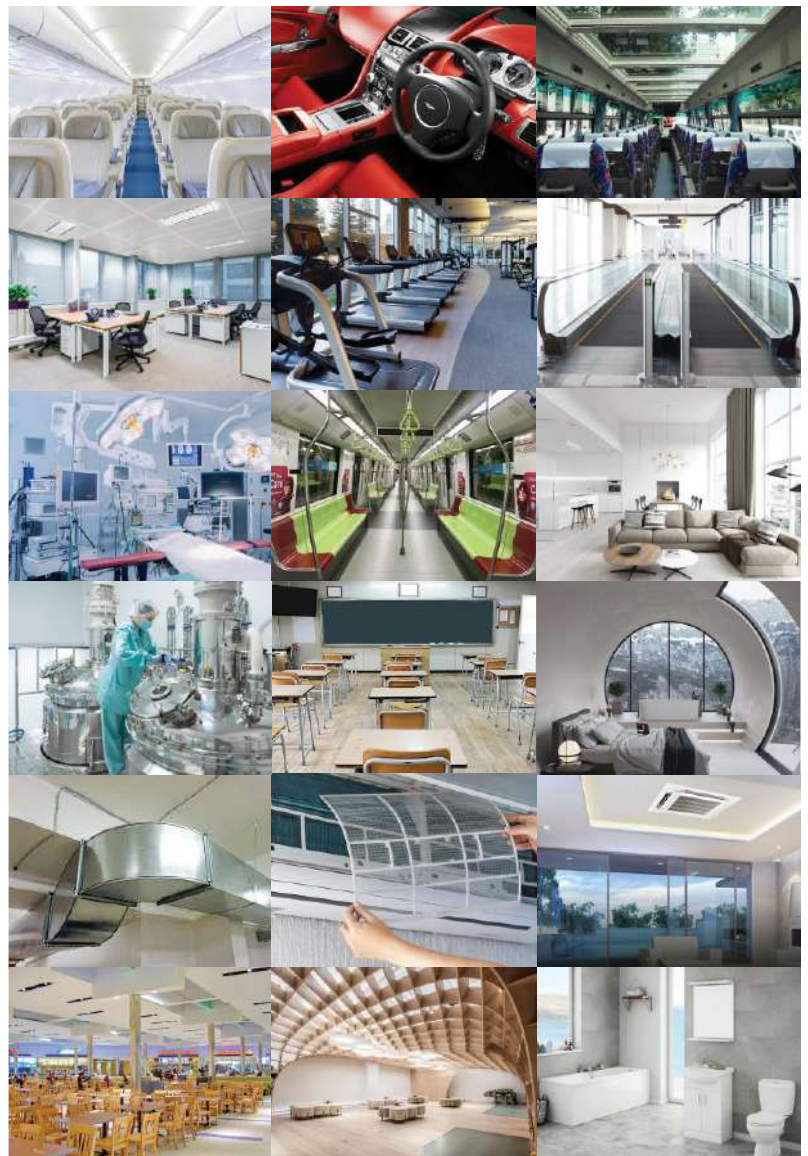
Airestec offers Services for Treatment & Disinfection of **Surfaces, Ducting Systems & HVAC / Air-Conditioning Cooling Coils** with non-hazardous and eco-friendly active ingredients. Our solution is proven effective in eliminating **\*99.99% of all viruses** including **SARS-COV-2** that causes **COVID-19 infection and its variants, Influenza, Rhinovirus, Enterovirus** that causes Hand, Foot, Mouth Disease infection, **Measles virus, Rotavirus, Feline Calicivirus and Parvovirus.**

It is an **environmentally friendly and non-corrosive solution** and even safe to use on metal surfaces and electronic equipment, formulated according to the **Centres for Disease Control and Prevention (CDC), World Health Organization (WHO) and Environmental Protection Agency (EPA)** guidelines.

It can be applied on all types of hard surfaces including walls, ceilings, vehicles, machineries, specialized equipment, tools, ambient air, bathrooms, toilets, and more. Besides common surfaces, the product can be applied on Ducting Systems and Air-Conditioning Cooling Coils as well.

Taking good care of the HVAC / Air-Conditioning systems can give healthier air for us to breathe in, thus protecting our health and immune systems, minimizing the risk of diseases infection. With the ability of COVID-19 to spread airborne and the emergence of highly contagious variants, it is extremely crucial for us to protect our health. For HVAC / Air-Conditioning systems, this product is applicable to all types of HVAC units.

**\*Report can be provided upon request**



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