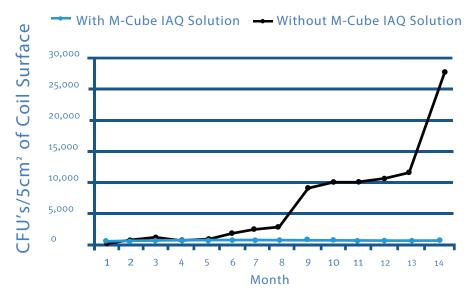


COIL CLEANING

What makes our Coil Cleaning Advanced?

AHU Bacteria Levels With and Without AerisGuard



How the process works?

It's a simple cycle: remediation - protection - retreat*

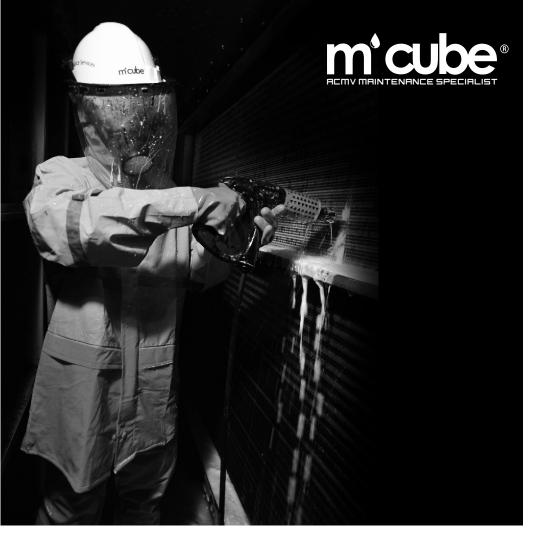


* Biofilm can't be stopped from colonisation - its rate of growth and subsequent impact on assets can be controlled by the protective coating.

Our partners:







What makes our Coil Cleaning Advanced?

TECHNICAL SUPERIORITY

Advanced cleaners operate on a rolling improvement programme. We are constantly looking for new ways to make our products safer, greener and more powerful. This has resulted in a range of cleaners that, while sometimes imitated, is always a step ahead.

A SOLUTION FOR ALL PROBLEMS

After twenty- five years in the industry, we have developed by far the most comprehensive range of AC and refrigeration chemicals on the market. From simple coil cleaning to descaling and sophisticated antimicrobial coatings, M-Cube HVAC Solutions has the answer to all your maintenance challenges.



We know What We are Talking About

Through our long commitment to customer service, problem solving and constant innovation, our technical team has amassed a wealth of scientific and practical knowledge. This makes us the first point of call for contractors and operators seeking advice- a trusted source of information for the entire industry.

The core of Aeris environmental's intellectual property and growthscope is Aeris guard our unique suite of patented multienzyme and anti- microbial formulations which can be tailored to specific industrial situations.

The Aerisguard Hygiene Solutions remediate and protect airconditioning and refrigeration systems from commonly occurring bacterial and mould contamination problems. System protected by Aerisguard provide significant human health, equipment efficiency and asset management benefits.



Cleanliness means Efficiency





Air conditioning in commercial buildings may distribute biological contamination as 80 - 90% of all commercial building air is re-circulated. Contaminated indoor air is a significant health issue, impacting on a large propotion of the community.

Repeated exposure to contaminated air can result in allergies such as asthma, lung disease, hyper sensitivity pneumonitis (flu like symptoms), headache, fatique, bronchitis and many more illness related to the respitory system.

Long term exposure to these contamination has also shown to supress the immune system leading to increased susceptibility to infection. As a consequence, it may cause serious medical conditions in the future.

Contaminants attached to ACMV heat exchangers decease operational efficiency and airflow and increase energy consumption. The implementation of an effective IAQ maintenance program delivers multiple benefits:

- A healthier work environment
- Improves staff productivity
- Reduce staff absenteeism
- Reduce energy consumption
- Longer equipment life
- Reduce greenhouse gas emissions and significant
- Environmental gains



The M-Cube ACMV solution:

We at M-Cube will establish a regular program of scheduled maintenance, quality assured procedures clearly documented, regularly reviewed and available for inspection by building engineers, facility managers, building owners, property insurers and tenant groups. Effective plant maintenance gives rise to a multitude of additional benefits beyond improved air quality.





The Air Conditioning Solution

Our products provide a "systems" approach to maintaining a "healthy building". By treating the coils, airhandling rooms, filters and ductwork, it addresses the issue of contaminated indoor air at its source. Similarly, through a novel approach to the treatment of the condenser water system, it addresses the source of potential legionella outbreaks. The following is an overview of our products.

Heat Exchange Coil Cleaning Solution

The M-Cube ACMV coil Cleaning Solution is enzyme based and targets all domestic, commercial and industrial air handling installations. The product is designed for application to cooling and heating coils as part of mechanical plant maintenance. The cleaner strips away any existing bacteria, fungi and other contaminants also removing any pre- existing coatings, ensuring a clean surface for the application of the treatment. The product is non- corrosive and completely biodegradable.



Coil Treatment

The M-Cube ACMV Coil Treatment Solution is applied "insitu" to cooling and heating coils after they have been cleaned and existing biofilm removed. The treatment leaves a thin coating on the coil surface. The solution is formulated to release a small amount of the active biocides over a period of at least 12 months after which time the M-Cube ACMV Coil Cleaner is used to remove the existing coating and the treatment is reapplied.

Filter Treatment

The M-Cube ACMV Filter Treatment is applied to air filters at the time of installation. The filter treatment is based on a patented technology that ensures a slow migration of a combination of active compounds into the dust particles trapped within the filter.

Dust particles provide a source of nutrients for fungi, which very rapidly colonise untreated air filters. Towards the end of its working life a typical filter is highly contaminated. Aside from the potential human health consequences, it is largely the proliferation of the fungal root system that leads ultimately to the filter becoming blocked. Application of the M-Cube HVAC Filter Treatment dramatically reduces this fungal growth, thereby extending the filter life, improving the filter's dust retention, reducing energy consumption and improving the quality of the building's indoor air.



ACMV Coil Maintenance Services -Disinfection and Treatment

Most modern air- conditioners are designed to operate within much smaller tolerances than they did 20 years ago. With emphasis being placed on higher operating efficiencies (known as S.E.E.R or E.E.R.), air conditioners are being asked to deliver the maximum amount of work for the least amount of electrical consumption. Therefore, any field conditions that cause deviation from optimum operation can have a detrimental effect on the perfomance and life of a unit.

If you expect your air conditioner to perform reliably for years to come, a small investment in preventative maintenance pays for itself through lower electricity bills, repair costs and replacement expenditures.





What you can expect when your coils are not kept clean?

- Higher than necessary electric bills
- Excessive and unnecessary repair bills
- Premature component failure
- Lack of humidity removal
- Compressor failures
- Loss of cooling capacity



When components like coils are exceptionally dirty, motors and compressors have to work harder to deliver cool air to the facility. This directly affects your electricity bill at each location. The added work load results in higher current draw to operate the motor and the compressor. Additionally, when a motor or compressor has to work harder, it is also more likely to fail.

Any restrictions caused by dirty coils place stress on all of the components in the refrigeration cycle. The compressor removes heat and humidity from the air by pumping refrigerant through the evaporator and condensor coils. The air is also cleaned as it passes through the filter media within the unit. If the coils are dirty, air flow is restricted and the coils cannot effectively dissipate heat and remove humidity. This causes "stress" on the system, especially the compressors.