

Perfecting the Air

Anti-Corrosion & Anti-Microbial Treatment

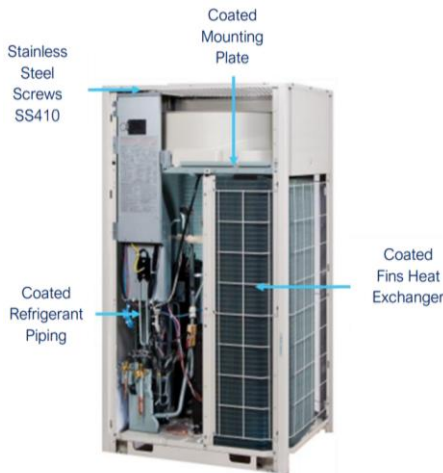
The objective of this treatment is to protect the **installed outdoor unit (ODU) air-conditioning equipment heat exchanger aluminium fin assemblies** from rapid formation of corrosion, while simultaneously **improving indoor air quality (IAQ) for the indoor unit (IDU)** and **extending the operational lifespan of equipment**.

The heat exchanger aluminum fins are coated with specially formulated anti-corrosion and anti-microbial treatment, comprising **DTM, TiO₂, Silver Ions, and Quaternary Ammonium compounds**. This advanced coating system provide long term protection against corrosion while inhibiting microbial growth.

Coating Model

- ↻ **Anti-Corrosion Heavy Treatment (ACHT)** for Outdoor Unit (ODU) / Outdoor Environment
- ↻ **Anti-Microbial Coating Treatment (AMCT)** for Indoor Unit (IDU) / Indoor Environment

ODU: Anti-Corrosion Heavy Treatment



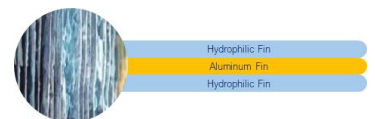
IDU: Anti-Microbial Coating Treatment



Standard Unit

Anti-Corrosion Heavy Treatment Fin
Anti-Microbial Coating Treatment Fin

Standard Fin



No Corrosion

Corrosion

Features

- ↻ Superior Hydrophobic
- ↻ Superior Ozone Protection
- ↻ Water Based
- ↻ Ozone Free
- ↻ Anti-Fungal
- ↻ Anti-Bacteria
- ↻ Non-Flammable
- ↻ User Friendly

Benefits

- ↻ Improve Indoor Air Quality (IAQ)
- ↻ Superior Corrosion Protection
- ↻ Increase Lifespan
- ↻ Easy Maintenance
- ↻ Maintain Efficiency
- ↻ Maintain Performance
- ↻ Maintain Energy
- ↻ Re-Coatable

ASTM TEST

ASTM B117: Pass 22,000 Hours
ASTM G85-A5: Pass 3,000 Hours
ASTM G21: Pass
ASTM G22: Pass
ASTM D4798: Pass 300 Hours (weathering xenon arc test method)
ASTM D5894: Pass 1,000 Hours (cyclic corrosion / uv exposure)
ASTM D2794: Direct >1.8kg per cm²
 Indirect 1kg per cm²
ASTM G87: Pass 50 Cycles
ASTM D522 Method B: Pass 100% Adhesion / No Crack
ASTM D3363: 2H
ASTM E1530-99: Thermal Conductivity >1% @ DFT 10 microns / >2% @ DFT 20 microns

ASTM E1530-99: Thermal Conductivity >1% @ DFT 10 microns / >2% @ DFT 20 microns

STANDARD COMPLIANCE REGULATORY

NEA: Hazardous Substance – Not Present
FDA: Meet FDA 175,300 for indirect food contact
NSF: Comply to NSF guideline Non-Food Compound Registered
RoHS: Comply to RoHS directive 2002/95/EC
REACH: Comply EU Regulation (EC) No. 1907/2006
Military Standards: Meet MIL-STD-810 Sand and Dust

Perfecting the Air

| | | |
|----------------------------------|--|--|
| Applicable Equipment's <ODU/IDU> | <input type="checkbox"/> VRV - Variable Refrigerant Volume Unit <input type="checkbox"/> RA - Residential Unit <input type="checkbox"/> SA - SkyAir Unit <input type="checkbox"/> PA - Packaged Unit <input type="checkbox"/> AP - Air Cooled Chiller / AHU Coil | |
| Applicable Environment's | Outdoor Environment - Corrosion Resistance <ODU> ↻ Coastal ↻ Oil & Gas Industries ↻ Water Treatment ↻ Food Industries ↻ Hotels & Resorts ↻ Mild Chemical Industries | Indoor Environment – Improve IAQ <IDU> ↻ School / Kindergarten ↻ Condominium / Landed Properties ↻ BTO / Hotels / Service Apartment ↻ Sport Hall / Gyms / Theatres ↻ Hospital / Clinic / Nursing Home ↻ Laboratories / Clean Room / Offices |

□ Material Specifications.

| No. | Component | Factory Standard <ODU> | ACHT <ODU> Anti-Corrosion Heavy Treatment | AMCT <IDU> Anti-Microbial Coating Treatment |
|-----|---|---|---|---|
| 1 | Heat Exchanger <ODU & IDU> (Fins/Tube/End Plate) Refrigerant copper pipe | Hydrophilic alu fins (blue), tube, end plate and ref.pipe, no coating | Add On: Anti-Corrosion Microbial Coating Treatment (≥15~20μ) | Add On: Anti-Corrosion Microbial Coating Treatment (≥15~20μ) |
| 2 | Mounting Plate Assembly (Stop Valve/Fan Motor/Partition Plate) | Galvanized sheet metal, no coating | Add On: Anti-Corrosion Microbial Coating Treatment (≥15~20μ) | Not Applicable |
| 3 | Bottom Frame Assembly | Galvanized sheet metal, no coating | Add On: Anti-Corrosion Microbial Coating Treatment (≥15~20μ) | Not Applicable |
| 4 | Fan Motor Shaft & Bearing Cover | Galvanized shaft, bearing cover, no coating | Add-on: Manually Hand Paint on Fan Shaft / Bearing Cover | Not Applicable |
| 5 | Electrical Box Assy | Galvanized sheet metal, no coating | Add-on: Manually Touch up Paint (spot welding areas) | Not Applicable |
| 6 | Self Tapping Screws External Fasteners | SWCH + Zinc Nickel Plating | Upgraded to SUS410 + Zinc Nickel Plating | Not Applicable |
| 7 | External Sheet Metal Casing | Hot-dip zinc coated sheet metal casing + powder coating | Factory Standard | Not Applicable |

Notes:

- **Factory Standard / **Heat Exchanger <ODU & IDU>** – Basic protection
- **ACHT <ODU>** – Enhanced corrosion resistance in outdoor environments
- **AMCT <IDU>** – Enhanced antimicrobial protection and corrosion resistance, supporting improved indoor air quality (IAQ)

Note:

- Reach us now for more information on our **ANTI-CORROSION and ANTI-MICROBIAL COATING TREATMENT**.
- We also provide **PCB CONFORMAL COATING TREATMENT**. (Option).

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