



bluChem
Anti-Corrosion Coatings

BluGuard™ Coating Solutions

Total Corrosion Protection for HVAC/R Systems

REJUVENATION INFORMATION

Many customers have a limited budget to replace expensive capital equipment. Equipment is often located in areas that can accelerate the normal rate of corrosion that occurs to all metals. In coastal areas, mines, or in cities with large industrial areas, corrosion can very quickly degrade the cosmetic appearance of HVAC/R equipment. Once started, the corrosion can accelerate exponentially and lead to loss of heat exchange capacity and ultimately, failure of the system.

BluChem has products manufactured in Europe and engineered to withstand highly corrosive environments such as oil rigs, coastal installations, refineries, chemical plants, etc. The coatings have been extensively tested in the Middle East where they are exposed to extreme levels of salt air, humidity, heat and sand abrasion. To date there have been zero failures of rejuvenated units.

The metallic impregnated BluGuard™ Coil Protection restores bonding between fin and tube.

Benefits

- ❖ Increases life cycle of HVAC/R equipment
- ❖ Delays capital expenditure
- ❖ Investments paid back in months
- ❖ Some lost capacity can be restored
- ❖ Resists corrosion, moisture and UV rays
- ❖ Continuous European R & D support

Advantages of the BluGuard™ Coating

- ❖ Unmatched technical performance
- ❖ Application by certified technicians
- ❖ Special Pan Protection available
- ❖ Short lead times
- ❖ Collection and drop off service available
- ❖ On site application offered



REJUVENATION STEPS

Coils

1. Coils are pressure sprayed with O³ Alkaline Coil Cleaner
2. Coils are pressure washed with HOT high pressure water
3. Flattened fins are combed straight
4. Headers and corroded fins/tubed are sprayed with BluGuard™ Pickle solution to de-oxidise any surface corrosion
5. BluGuard™ Pickle is pressure rinsed with HOT high pressure water.
6. A conversion layer is applied to fins for superior adhesion
7. BluGuard™ Mastic Primer is applied to headers and u-bends
8. BluGuard™ Coil Protection is applied in multiple layers to fins & coils

Panels/Cabinetry

1. Panels are washed down with detergent & HOT high pressure water
2. Loose corrosion is mechanically removed
3. All surface corrosion is treated with a rust convertor
4. The panels are wiped down with a solvent to remove any grease & grime
5. BluGuard™ Mastic Primer is applied to all panel surfaces
6. BluGuard™ Panel Protection is applied as a top coat

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