Coilprotector

Coilprotector Introduction:

Coilprotector is an anti corrosion treatment that is applied to all types of air-cooled heat exchangers, including rooftop units, air cooled liquid chillers, and air handlers. Generally the units are placed higher than ground level, which means there is an increased amount of pollution. Due to influences by the atmosphere, corrosion builds on the units, which in turn decreases the capacity and increases the energy consumption.

The initial installation of these units is not cheap. The benefit of having the units treated with Coilprotector is that we will reduce the possibility of an unexpected breakdown and replacements.

By entering into a maintenance program we can ensure that the coil reaches its maximum performance and life expectancy of up to 10 years depending on locality.

Warranty and Guarantee:

Once entering into a service agreement, Coilprotector carries out guarantee of up to 10 years.

By having your units treated with Coilprotector , you are investing your money into a worth-while hassle free future, with scheduled checks by accredited applicators, technical assistance, and a team of people that will be there to service you for all your condenser anti-corrosion needs, whether new, used or repair works.

Photo of a coated unit:

Coated unit for ultimate anti-corrosion protection

Corrosion Protection for condensers

Coilprotector Process:

The process of applying Coilprotector is carried out over seven important processes.

Inspecting and cleaning the units. Firstly the condenser is inspected by a certified applicator. A vacuum system is used to remove and dry pollution, with the unit the being cleaned with high-pressure water and concentrated biodegradable cleaning agents.

Alignment of the fins. The fins are aligned using special equipment in order to restore visual and mechanical standard.

De-oxidation treatment. Pickling of the condenser is carried out if the unit is corrosive, removing the oxide-skin pollution.

De-oxidation cleaning. The unit is rinsed with the use of high-pressure equipment, preparing it for treatment.

Conversion Layer. With the use of special spraying equipment, and a unique custom product, the units are applied with a conversion layer.

Drying. The conversion layer must be full dry before the top layer can be applied.

Top layer, Coilprotector
Applied to protect the coil from conditions set upon by the enviroment.

Photo of a corroded coil:

Demonstration of the effects that our enviroment has on coils.

Photo of a coil pre-treated process:

Unit being pre-treated before the coating process can commence.

Photo of treated coil with Coilprotector :

Technical Specifications:

Coating Type:	Aluminium Impregnated Polyurethane
Coating Colour:	Silver
Pre-treatment:	Conversion Layer
Substrates:	Aluminium and Copper
Layer Thickness:	25-30 µm
UV Resistance:	Excellent
Dry Temperature Range:	0° C to 150°C, 32° F to 302° F
Thermal Resistance:	0 to 3% depending on fin details
Pressure Drop:	0 to 5% depending on fin details
Neutral-salt Spray:	3600+ hrs ASTM B117
Acidic-salt Spray:	3600+ hrs ASTM B287 / AAMA 2603-98

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