

Corrosion Protection Guide

Outdoors

Natural and man-made environmental factors can significantly increase the rate of corrosion on outdoor refrigeration equipment.

Industrial Factors:

- Cooling tower chemicals
- Cleaning products
- Fertilisers
- Fumigation
- And others.

Natural Factors:

- Bore water sprinklers
- Ocean salt spray
- And others.



| Zone 4 | Zone 3 | Zone 2 | Zone 1 |
|----------------|----------------|-------------------|-----------------|
| Low 25-80km | Mild 5-25km | Moderate 1-5km | Severe 0-1km |

Studies indicate that salt particles can travel more than 80km inland.

Impact is dependent on factors such as wind direction, humidity and topography.

Corrosion protection starts and ends with *you*.

What you can do

Inform us if the environment may be corrosive prior to requesting equipment.

Set expectations with your customer that corrosion may occur in their area.

Provide regular cleaning and maintenance of equipment.

Monitor and adjust if needed.

What we do

Provide products with low corrosion materials and protective coatings.

Offer optional construction materials and treatments for harsh environments such as:

- **Full stainless steel casing option**
- **Protective chemical treatments**

The unfortunate truth

Corrosion due to environmental exposure is a common and widespread occurrence. By selecting the correct materials and treatments, and providing regular cleaning and maintenance, the service-life of equipment can be increased.

Contact us for advice on your next project.

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Sources:

pomametals.com - "How far can salt air travel inland?"
GAA.com.au - "Corrosivity of environments - a quick guide"
MyPDH.Engineer - "Distance from Ocean Impact on Corrosion"
ASTM.org - "Salt Spray Test Standards"
CEDEngineering.com - "HVAC Design in Corrosive Environments"