

Protect Your Investment with Nyalic® Corrosion Protection



Why Corrosion Protection Matters

Air conditioning units and heat pumps work hard every day, moving thousands of cubic metres of air across their surfaces every hour. Often, they're exposed to tough environments where salt air, moisture, chemicals, or even pests can cause premature corrosion and costly damage.

The Solution: Nyalic® Protective Coating

Our trained team apply a crystal-clear Nyalic® surface coating to every internal and external metal surface of your outdoor unit before it's ever exposed to the elements. This proven treatment:

- Protects against rust, chemical attack, and UV.
- Keeps painted surfaces looking fresh and stain-free.
- Flexes with the metal as it expands and contracts – it won't crack or peel.

Trusted Across Industries

Originally developed for aerospace applications, Nyalic® has since been adopted in marine, transportation, agriculture, construction, and HVAC industries. It is trusted worldwide to protect mission-critical equipment from the harshest environments.



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A Specialist, Step-by-Step Process

We have developed this service alongside professional spray specialists to ensure the highest level of protection.

1

As soon as the unit leaves our warehouse, it goes directly to a specialised facility where it is carefully unboxed before any exposure to the elements.



2

The unit is methodically disassembled by experts who know the product inside and out – without ever opening the refrigeration system.



3

Each section then undergoes a Nyalic® application in a specialised booth, where the environment is carefully controlled to ensure optimal curing conditions. On the more exposed parts of the unit, this process is repeated so that vulnerable surfaces receive a double coating for added durability.

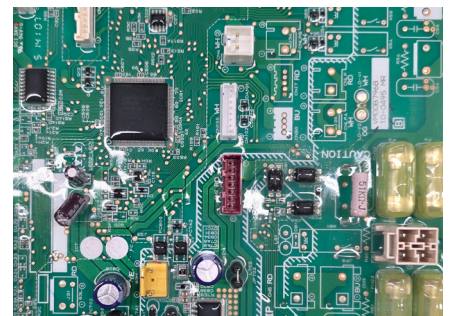


4

Finally, the unit is reassembled to original factory standards, re-boxed, and ready to sell. Looking new, but with the strength to withstand far tougher environments.

Extra Protection for Electronics

To further safeguard your investment, each printed circuit board (PCB) is coated with a factory-approved silicone layer. This shields sensitive electronics from corrosion, insects, and rodents, helping prevent unexpected and costly breakdowns. Where a full Nyalic® treatment is not necessary due to low-corrosion environments, but there is a known insect or rodent risk, a PCB-only treatment can be provided as a practical standalone option.



Proven by Testing

Nyalic® is backed by independent ASTM laboratory testing, demonstrating:

- Salt spray resistance – passes 1,000+ hours on aluminium and stainless steel.
- Humidity resistance – passes 1,000 hours at 100% RH.
- Chemical resistance – no blistering or discolouration.
- Impact and adhesion – withstands heavy impacts with no peeling or lifting.
- UV, acid, and moisture resistance for reliable long-term protection.

On top of this, BDT has been recommending Nyalic® for more than 10 years, with overwhelmingly positive feedback.



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Understanding New Zealand's Tough Coastal Environments

Our Nyalic® corrosion protection service is considered a mid- to high-level treatment, recommended for use in C3 environments, and suitable for C4 environments when supported by additional maintenance.

To help determine where this service is most effective, HERA provides excellent tools and resources on New Zealand's coastal environments. Their [interactive corrosion zone map](#) defines coastal zones C1 through to C5.

It is important to note that this map is focused specifically on coastal conditions. It does not account for other challenging environments such as areas with geothermal sulphur, industrial sulphur, chlorine, or similar contaminants.

In extreme conditions, such as C5 zones, geothermal areas like Rotorua, or other known high-corrosion regions, we recommend seeking advice from a local specialist before applying Nyalic®.

ISO 9223	AS/NZS 2312:2002	NZS 3604:2011		SNZ TS 3404:2018	
C5-M	E-M: Very High	Zone D (E)	Surf beaches	C5-M	Within 100m of surf
C4	D: High	Zone D	<500m of sea or harbours; <100m of tidal estuaries	C4	Within 500m of breaking surf; within 50m of calm salt water such as harbour foreshores
C3	C: Medium	Zone C	Inland coastal areas	C3	Within 5km from salt water including harbours
C2	B: Low	Zone B	Inland areas with little risk of sea spray salt deposits	C2	5km to 50km from salt water including harbours

The above table is BDT's interpretation of standards and maps.

Peace of Mind with Full Warranty

Because this service is carried out by our own trained specialists, your full standard Mitsubishi Electric warranty continues to apply.

Options and Pricing

Please refer to BDT's Trade Price List for available treatment options and pricing.

Ready to extend the life of your unit? Contact your local Mitsubishi Electric Representative or call the BDT Service Team on 0800 737 842.