

Corrosive Environment Solutions



BATTLING CORROSION INSIDE A MANUFACTURING PLANT

Specializing in delivering application solutions, nVent HOFFMAN works tirelessly to ensure our customers deliver the utmost performance in their respective markets by providing only the highest quality designed products. Industrial applications concerned with corrosive elements are applications where HOFFMAN's suite of products is distinguished as best in-class. Electrical equipment at some manufacturing facilities can be exposed to corrosive chemicals and high temperatures, which can lead to elevated failure rates. To reduce operational costs and minimize downtime, HOFFMAN created a 4-step design solution to protect critical control systems.

#1 ENCLOSURE

The preferred enclosure construction for limiting corrosive element intrusion would be a welded, uni-body enclosure. HOFFMAN's Large Free-Stand enclosures are constructed in this manner, and are offered standard in Type-12, 4, or 4X construction to suit one's specific application. If additional assembly/mounting flexibility is desired, HOFFMAN offers the ProLine G2 from the Modular product offering. Fundamental to ProLine G2 is a robust, 12-gauge roll-formed frame capable of handling a load of 3500 lbs. Gasketed steel covers are incorporated to ensure proper sealing, and components such as a welded plinth base can be integrated to facilitate cable entry from the base.



#2 COATED AC

To keep internal components cool inside an enclosure, HOFFMAN recommends utilizing an air conditioner (A/C) to maintain an optimal temperature level. Corrosive elements in the ambient air can attack critical components within the air conditioner. HOFFMAN offers a full suite of corrosion protection solutions within an air conditioner to enhance functional performance and extend the lifespan of the unit.

#3 REMOTE ACCESS CONTROL

Remote monitoring systems, such as HOFFMAN's Remote Access Control (RAC), ensure air conditioners are performing optimally and the enclosure sealing has not been compromised, allowing corrosive elements to enter. RAC enables users to connect all A/C units to a secure industrial network, allowing specified users to access, adjust alarm settings, monitor, and react to performance changes within their cooling ecosystem.



#4 CORROSION INHIBITORS

Even with the right enclosure, air conditioner, and monitoring system, corrosive elements may still find a pathway to enter the enclosure. To combat this, HOFFMAN recommends adding Corrosion Inhibitor products and desiccant packs to capture moisture and other corrosive elements. Adding these products to a preventive maintenance program will assist in maintaining a long lasting internal control system.

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