

Cost effective solutions for cooler VFD enclosures.

How innovative enclosure design is helping to manage VFD generated heat.



Enclosed variable frequency drives are highly susceptible to heat

Poor heat management in drive enclosures shortens the life of drive and other electronic components. It can also lead to performance and stability problems.

Other heat sources such as environmental, solar, or surrounding process can add even greater stress. This is particularly true for drives installed in outdoor areas.

New VFD systems should incorporate best practice and better design

There are many known practices in place to help improve thermal management of VFD enclosures, particularly for existing systems. New systems may warrant a fresh look. Enclosure manufacturers are designing enclosures specifically for VFD applications, incorporating many best practices and innovative features to manage heat and increase reliability.

The most innovative VFD enclosure design?

When planning for a new drive system or installation, we recommend the Hoffman Weatherflo enclosure. The design features many enhancements that improve thermal management.

- A white polyester powder finish with low solar absorption reduces the solar heat load 55-70 percent.
- An integrated solar shield top and intake cover provide an additional 25 percent solar reduction. Fan design is modular and scalable, providing for adjustment based on actual heat load.

A really innovative design element is the back panel loading feature. The back panel can be assembled and loaded from the rear of the enclosure. The enclosure can simply be placed over top the back panel and bolted down, making assembly much easier. No need to lift a heavy back panel.

You can watch more on the Weatherflo at:

<https://www.youtube.com/watch?v=rhWWapSxEbU>

Getting started

Contact EECO at 800.993.3326 to learn about how to get started with the Weatherflo enclosure or to request a thermal audit of your VFD enclosures.

Call EECO
For A
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