

Custom Starters, Including Variable Speed Drives. We Can Provide All Of Your Needs

Johnson Controls provides Frick® premium Engineered Control Systems as well as the Quantum™LX control panel, the most comprehensive, single program controller for compressors. We also have years of experience in the engineering, design and manufacturing of custom starter/control solutions as well as starters for Frick air-side equipment.



This custom engineered starter and control panel provides variable speed starting for 7 evaporators with four, 5 hp fan motors each. In addition, the panel also provides complete PLC zone control for each evaporator. (View is from the rear)



(Front, Internal and Profile Views of Starter/Controller)

Let us provide your custom starters and controllers such as the one shown above.

This particular evaporative condenser starter/controller provides full voltage pump starting and variable speed fan operation with full-voltage bypass for 2 condensers. In addition this starter/controller also provides PLC control for monitoring 40 points of NH₃ detection for ventilation control along with other ancillary engine room control.



Separation of the power components and wiring, from the control components and wiring as shown above, allows for troubleshooting of all control components at lower Arc-Flash PPE (personal protective equipment) requirements.

- All branch motor circuits are individually protected and provide lockout/tag-out.

Frick®

BY JOHNSON CONTROLS

In Addition To Our Custom Products! We Also Provide Standard Starter And Variable Speed Drive Solutions For Our Airside Equipment!

Standard starting solutions are available in NEMA-4, 4X, 3R & 12 ratings in order to provide the correct level of protection.

Below is an example of a Nema-12 starter for control of an evaporative condenser. It includes full-voltage starting for the water pump and variable speed starting for the fans. Full-voltage bypass starting for the fans is also provided. Components are mounted on a heavy-gauge back plate for easy wall mounting. (Indoor Only)



Environmental conditions such as high and low ambient temperatures as well as indoor/outdoor duty are considered toward selecting the best solution.



Nema-3R (shown above) and NEMA-4 rated panels are suitable for outdoor duty. For corrosive environments, NEMA-4X (stainless or corrosion-resistant plastic) can be provided.



A variable speed starter in a -10°F cold room

Variable Speed Drives should always be mounted as close to the load as possible. Our starter designs allow the starters and variable speed drives to operate in the cold space, down to -30°F.

For more information or to obtain a quote, contact your Frick Sales Representative Today!

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