Franklin Electric
ENERGY SYSTEMS

TECHNICAL QUICK REFERENCE

The Guardian Series™ Variable Frequency Controller provides many new operational improvements while also changing a few physical features when retrofitting a legacy MagVFC™.



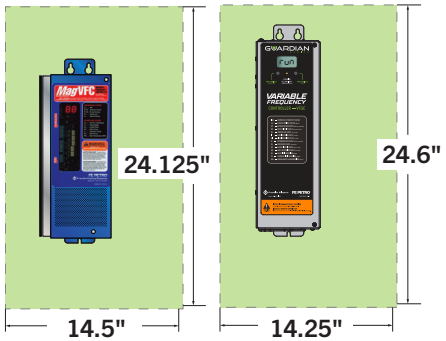
INSTALLATION SPACE

Despite a slightly larger enclosure, the install envelope remains roughly the same.

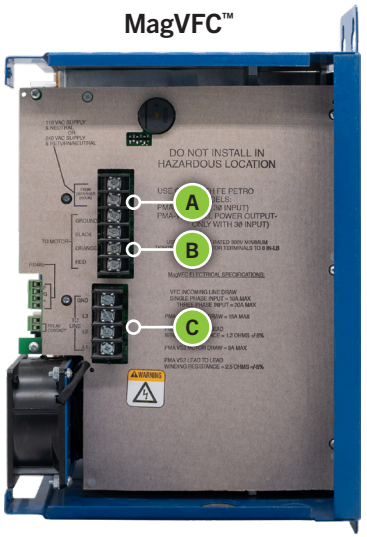
Enclosure Dimensions

Mag VFC	12.1" H x 5.5" W x 9.5" D
Guardian Series™	15.6" H x 5.3" W x 10.1" D

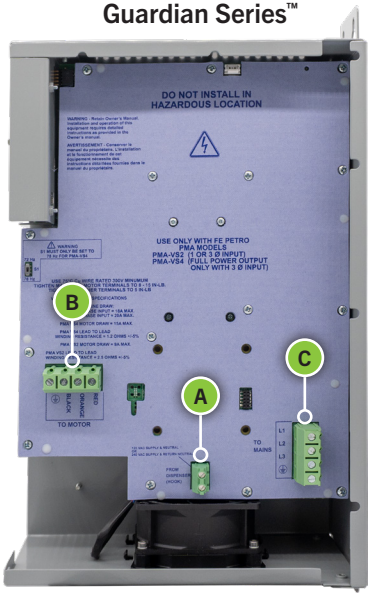
Installation Envelope Requirement



MagVFC™



Guardian Series™



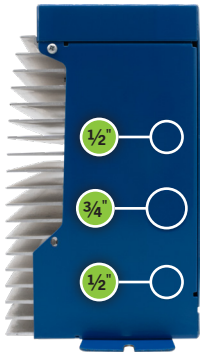
WIRING TERMINALS

Wiring terminals for Incoming Hook, Motor Connections, and Incoming Power are located at the bottom of the controller interior, allowing easy access for retrofit installations and enabling the use of existing wiring with no need to pull new wiring.

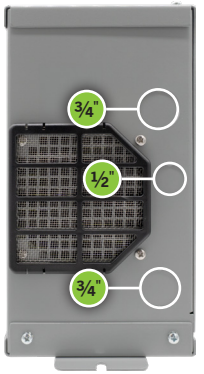
Terminal Types

A	Incoming hook
B	Motor connection
C	Incoming power

MagVFC™



Guardian Series™



ELECTRICAL CONDUIT

The knockout pattern has been slightly adjusted while remaining similar overall. It now features one ½-inch and two ¾-inch knockouts (previously two ½-inch and one ¾-inch), providing greater flexibility for larger conduit runs.

USER INTERFACE

A 3½-digit LCD displays the running and fault status, and expands the fault history from the last three to the last five faults while providing more detailed fault information.

New Bypass Mode

Added feature for startup / purging and system troubleshooting at fixed frequency.



Improved Diagnostics

Displays fault codes along with additional details to enhance troubleshooting.

Communication LED

A yellow LED provides a visual confirmation of communication between the controller and the submersible pump.

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