VFD Controller Hazard Statements

This is a SAFETY ALERT SYMBOL. When you see this symbol on the pump, the controller or in the manual, look for one of the following signal words and be alert to the potential for personal injury or property damage.

⚠ DANGER Warns of hazards that **WILL** cause serious personal injury, death or major property damage.

⚠ WARNING Warns of hazards that **CAN** cause serious personal injury, death or major property damage.

⚠ CAUTION Warns of hazards that **CAN** cause personal injury or property damage.

NOTICE: INDICATES SPECIAL INSTRUCTIONS WHICH ARE VERY IMPORTANT AND MUST BE FOLLOWED.

THOROUGHLY REVIEW ALL INSTRUCTIONS AND WARNINGS PRIOR TO PERFORMING ANY WORK ON THIS CONTROLLER.

MAINTAIN ALL SAFETY DECALS.

⚠ WARNING Controllers are not designed for use around swimming pools, open bodies of water, hazardous liquids, or where flammable gases exist.

⚠ WARNING Do not use GFCI input power. This will cause nuisance faults.

⚠ WARNING Disconnect and lockout electrical power before installing or servicing any electrical equipment.

⚠ WARNING Electrocution hazard. Controller Input Ground Terminal (GND) and all exposed metal piping, including pressure transducer case, must be connected to the service entrance ground terminal.

⚠ WARNING All electrical work must be performed by a qualified technician. Always follow the National Electrical Code (NEC), or the Canadian Electrical Code, as well as all local, state and provincial codes. Code questions should be directed to your local electrical inspector. Failure to follow electrical codes and OSHA safety standards may result in personal injury or equipment damage. Failure to follow manufacturer's installation instructions may result in electrical shock, fire hazard, personal injury or death, damaged equipment, unsatisfactory performance, and may void manufacturer's warranty.

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⚠ DANGER **Always treat this controller as energized until power supply to the controller has been removed for 5 minutes.**

⚠ DANGER **Electrocution Hazard. Opening SWITCH INPUT does not de-energize controller or any of it's outputs.**

⚠ CAUTION Avoid property damage caused by pressure relief valve opening. Pipe the pressure relief valve discharge to a drain or other location so that property damage and flooding will not occur.

⚠ CAUTION Locate the tank and transducer where they will not freeze.

⚠ WARNING **Do not install any valves, flow control devices or filters between the pressure transducer and the pump. It is allowable to run branches off the pipe between the pump and transducer as long as no flow restricting devices are between the pump and transducer.**

⚠ CAUTION Any exposed metal in the system piping, including transducer case, must be grounded to the service entrance per NFPA 70: National Electrical Code, Article 250.

Motor Overload Setting Dial

⚠ WARNING Failure to properly adjust the Motor Overload Setting before applying power may damage the motor or wire and void the warranty.

Pressure Adjustment

The INCREASE and DECREASE pushbuttons are used to set the desired pressure. To adjust pressure, press and hold (do not tap) the button until the desired pressure is obtained. It may take a full minute to adjust the pressure from maximum to minimum, please be patient. Pressure can only be changed when the pump-motor is running.

Controller Status Indicator (Light Visible Through Window in Cover)

The controller status indicator light has 3 possible modes:

- Solid green = Standby, pump not running. There is no water flow or the SWITCH INPUT is open.
- Blinking green = Pump running. There is flow (possibly a leak) and the SWITCH INPUT terminals are connected to each other (closed).
- Red = Error/Fault. Light will blink to indicate a particular fault. See Troubleshooting Section for Fault Codes.

Splicing Drop Cable

The underwater connection where the drop cable connects to the motor wires must be done using a waterproof heat shrink kit.

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