

# Designed specifically for agricultural applications



The enclosed control irrigation pump panels were designed with the agricultural marketplace in mind. Eaton understands that there are many unique features required to control irrigation systems. Whether you are using a center pivot, drip irrigation or water flooding system, these pump controls are designed to meet your needs.

The irrigation pump controllers are combination starters ready to be applied to your centrifugal and displacement pumps. The enclosure is UL® Type 3R rated to provide weathertight protection and is available in two enclosure sizes, depending on your control option requirements. This 3R rating allows you to mount the enclosures outdoors near the head of the well. The enclosures are also designed to be pole mounted. This enables you to mount this as a standalone device on a utility pole or in a rack-mounting configuration. Additionally, the irrigation pump panel is the first and only pump panel truly designed with an easy-to-use bottom entry.

The irrigation pump panels use Freedom™ Series motor-starting technology to control motors from 1 to 100 hp at 460 volts. The panels utilize either a disconnect switch or a circuit breaker, a HAND/OFF/AUTO auto selector switch, and a start pushbutton. These controllers have two styles of overload protection available, interchangeable heater and solid-state overload (SSOL).

- The interchangeable heater overload uses individual heater packs to allow customers the ability to use various heater styles
- The solid-state overload relay (option) provides enhanced protection and the widest adjustment ranges in the industry to make setup extremely easy



## Why use the irrigation pump panel?

The irrigation pump panel was designed specifically for agricultural applications requiring submersible, progressive cavity, or vertical hollow-shaft pumps. Typically, these applications may require basic pump motor starting functions that are integral to the design of the irrigation pump panel.

## Benefits

- Typically, enclosures are mounted outdoors and require Type 3R protection, thus the standard offering is a rugged 14-gauge steel design Type 3R enclosure
- For the most challenging environmental conditions, a 304-grade stainless steel enclosure option is available in Type 3R design; 304-grade stainless steel offers an even higher resistance to corrosion than painted steel
- Service entrance ratings (SUSE) are standard for the irrigation pump panel, allowing installations directly off of the utility service line
- A door support mechanism is included as standard for convenience and safety during installation and maintenance. This will prevent the door from closing unexpectedly on service personnel
- All irrigation pump panels have a “bottom entry-capable” option so as to allow easy installation in instances where power is provided from underground or along the ground. These conductors are often difficult to maneuver through the interior of a traditional pump panel. The irrigation pump panel allows for landed terminals in the bottom portion of the enclosure, making installation much easier

- As these are commonly mounted in an agricultural setting, a rugged 14-gauge Type 3R pole mounting option is available. This is unique to pump panel products and can be formed to fit most utility poles
- The enclosure offers you the ability to padlock. This can provide an extra means of protection from unwanted operation or theft
- The motor starting overloads for the irrigation are designed to meet Class 10 and/or Class 20 overload trip settings
- Rugged 30 mm HAND/OFF/AUTO switch and start pushbutton are standard with each pump panel. This allows for easy local or remote operation of the pump controller

## Optional features

- Backspin timer—Adjustable from 0.2 seconds to 3 minutes. Prevents restart until motor and pump have stopped
- Control transformer—Available in all standard primary and secondary voltages. Includes two primary and one secondary fuse
- Lightning arrester—In many field installations for pump panels, lightning is a serious threat. Eaton offers protection to reduce control surges due to lightning
- Many irrigation applications can benefit from the use of a solid-state overload. The Eaton solid-state overload has one of the widest adjustment ranges in the industry. This wide trip range allows maximum flexibility in selection and applications of the irrigation pump panel



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