## **Pump Thermostat**

FLUID COOLER CONTROLS

# engineering data and specifications

Temperature Sensing Bulb located in the cold water basin



Control Enclosure with Contacts

#### **JOHNSON CONTROLS PUMP THERMOSTAT**

The Johnson Controls A72 Series thermostat (Marley part number C00607) is used in conjunction with a Marley safety circuit. The safety circuit prevents spray pump operation during freezing water conditions in the cold water basin. If the temperature in the cold water basin drops to 35°F, a set of internal contacts change state. Once temperature rises to 45°F, the internal contacts change state again...

#### **SEQUENCE OF OPERATION**

In normal condition, the internal contact is in an open state. Once temperature drops below the cut out point the contact will close and energize a control relay in the fluid cooler control panel shutting off the pump. Pump operation is allowed once temperature rises above its cut in point and the pump circuit is reset at the control panel.

#### **GENERAL DESCRIPTION**

The rubber gasket-lined, weather resistant enclosure is made of heavy gauge steel. The range and differential adjustments can be made by removing the gasket-lined access plugs. Direct-reading scales can be observed by removing the cover. The bulb and capillary tube are neoprene coated to resist abrasion and corrosive environments. The sensing element is cross ambient to provide operation under all temperature conditions within the rating of the control.

more III



### Pump Thermostat

ENGINEERING DATA



NO (normally open) contacts

Either one of the two NO contacts may be used in the safety circuit.

NO (normally open) contacts

Differential adjustment screw. A 10° differential is recommended.

The range adjustment screw will adjust both cut out and cut in simultaneously. Red arrow on left should be at 35°F. Red arrow on right should be at 45°F.





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