MANITOWOC ICE MACHINE DIVISION
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Instruction Sheet

Subject: Universal Ice Level Management

K00488 ELECTRONIC THERMOSTAT INSTALLATION

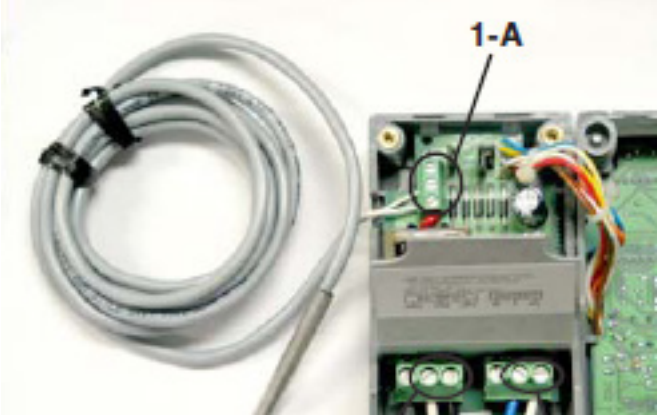


Figure 1



Figure1A Figure 1B Figure 1C



Figure 2

NOTE: Bracket is not used with Nugget ice machines.

Part Number	Description	Quantity
5008642	Electrical Cord	1
5028735	Harness Wiring	1
5028737	Bracket Bin Thermostat	1
000016039	Instruction	1
000013983	Control Temperature	1
5650423	Nylon Cable Tie	2
5026241	Screw 8-32 X 1/2	2
020003635	Bracket Bin Thermostat	1
2502283	Strain Relief	1

NOTE: The ice Management control is supplied with a 120 volt plug. If your power supply is 220 volt you will need a cord with a 220 volt plug (not supplied).

SETTING UP THE ICE THERMOSTAT

1. Connect the Ice Level Sensing Bulb lead wires to the set of terminals at the top of the thermostat control box. Connect one wire to the bottom screw terminal and the other wire to the middle screw terminal leaving the top terminal empty. (See Figure 1-A).
2. The 120v power cord attaches to the AC INPUT side to the terminals labeled COM and 120v. Connect the white wire to COM and the black wire to the 120v terminal. (See Figure 1-B).
3. Connect the wire harness to the OUTPUT side to the terminals labeled C (common) and NO (normally open). (See Figure 1-C).
4. Position the Ice Thermostat Control box (Figure 1) in a convenient location on the outer back panel of ice machine or wall and attach as conveniently and securely as possible.
5. Route the opposite ends of the wiring harness with the male and female terminal connectors through a knockout in the ice machine/nugget maker to the control box.

⚠Caution

Flake ice is not approved for use in ice dispensers.

CUBE ICE MACHINES THERMOSTAT INSTALLATION

NOTE: If an ice machine is already installed on the dispenser, raise and support the right side of the ice maker to allow adequate access to hang the Thermostat Bulb bracket on the inside of the dispenser bin.

1. Attach the Ice Level Sensing Bulb to the underside of the plastic insulator on the Thermostat mounting bracket with two plastic straps. Assure the thermostat probe is securely attached to the plastic insulator on the Bulb Housing! This prevents ice from setting on sensing bulb and keeping the unit off. (See Figure 2)
2. Wipe and dry the stainless liner wall where the bracket is to be installed. Peel the tape off bracket side and adhere the double face tape to the back side of the bracket (See Figure 3)

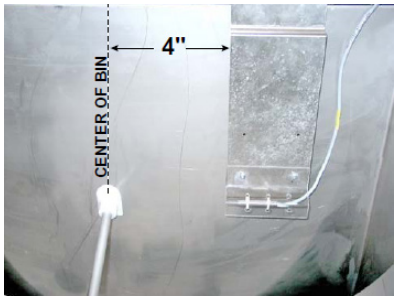


Figure 3

3. Locate the thermostat bulb assembly on the right side of the back wall approximately 4” to the right of the inside right side wall or 4” forward of the inside of the back wall. Place the bracket over the back or side wall and allow it to hang down and then peel the tape off the other side and firmly press the bracket to the wall. (See figure 3 for corresponding dispensers.)
4. Route the probe lead out at the right rear corner of the dispenser and pull the excess wire from the lead to the outside of the bin.
5. Carefully remove the support from underneath the ice machine and lower the ice machine into position on top of the dispenser.
6. Remove one wire from the designated shut off device, bin stat, toggle switch or curtain switch wire. Attach one wire to one of the output terminals Attach the other wire from the other output terminals to the spade terminal of the shut off control.

Contact the manufacture of the ice machine being used for correct wiring connections to the ice machine\nugget maker on/off control.

NUGGET ICE MACHINES INSTALLATION

NOTE: If an ice machine is already installed on the dispenser, raise and support the right side of the ice maker to allow adequate access to hang the Thermostat Bulb bracket on the inside of the dispenser bin.

1. Attach the thermostat bulb assembly on the front of the dispenser. See figure 4A. and 4B

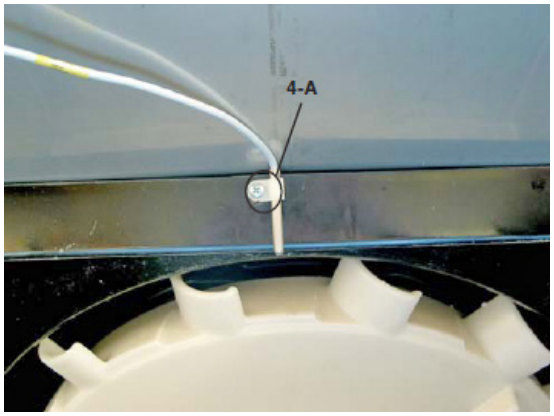


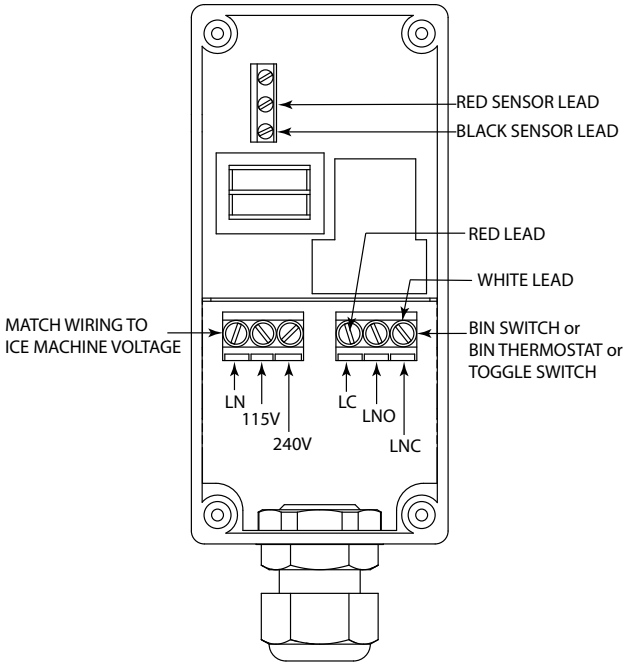
Figure 4A



2. Route the probe lead out at the right rear corner of the dispenser and pull the excess wire from the lead to the outside of the bin.
3. Carefully remove the support from underneath the ice machine and lower the ice machine into position on top of the dispenser.
4. Remove one wire from the designated shut off device, bin stat, toggle switch or curtain switch wire. Attach one wire to one of the output terminals Attach the other wire from the other output terminals to the spade terminal of the shut off control.

Contact the manufacture of the ice machine being used for correct wiring connections to the ice machine\nugget maker on/off control

CONTROLLER WIRING



CONTROL SETTINGS

Nugget ice machines

The control must be reset from the factory setting.

Refer to the jumper and control settings.

Cube ice machines

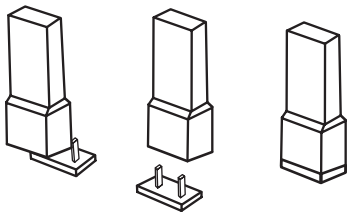
The machines use the factory control settings.

The controller has a one-minute time delay anytime power is interrupted and restored.

POSITIONING THE TOUCH PAD JUMPERS

P5 Jumper

The P5 jumper position determines if the touch pad is locked or unlocked. Unlocked the jumper covers two pins - locked the jumper covers one pin.



SETTING CONTROL SET POINT VALUE

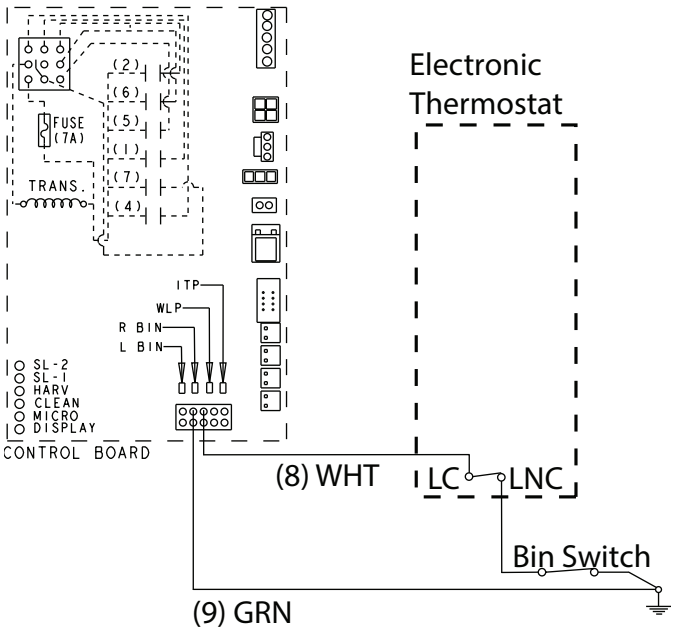
To program the Ice Thermostat, plug the120V power cord into an outlet and follow the steps below to program the Ice Thermostat, plug the120V power cord into an outlet and follow the steps below.

1. The Ice Thermostat set point is to be set at 38° Fahrenheit with a 2° differential.
2. Setting the Set Point at 38°
   A. Press and hold the Menu button until the display changes to flashing “SP”. This will take about 2 seconds.
   B. Press the Menu button again. The current set point is displayed.
   C. Press the Up or Down button to adjust the set point temperature.
   D. Press the Menu button to save. The display then returns to the sensor temperature.
3. Setting the Differential at 2°
   A. Press and hold the Menu button until the display changes to flashing “SP”. This will take about 2 seconds.
   B. Press the Up or Down button until the “DIF” function is displayed.
   C. Press the Menu button to display the function’s current value.
   D. Press the Up or Down button until the desired value is displayed.
   E. Press the Menu button to save the new value. The display then returns to the sensor temperature.

MANITOWOC ICE MACHINE WIRING

Cube Ice Machines

Manitowoc cube ice machines are wired in series with the bin switch as in the typical example below.



Manitowoc Nugget Ice Machines

Manitowoc Nugget Ice machines are wired in series with the bin thermostat as in the typical example below.

