

Matrix

Model Numbers: M100, M100V
Version Date: 2012-08-24

MATRIX AC FREEZE-STAT (P/N 84279-1) INSTALLATION INSTRUCTIONS



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Installer Responsibilities

The AC Freeze-stat is to be installed in the supply plenum immediately above the Matrix hydro-coil in applications incorporating cooling coils (AC). The Matrix AC Freeze-stat is provided as standard equipment with all Matrix units manufactured after July 27, 2010.

Kit Contents:

- Installation Instructions
- #84279 - AC Freeze-stat (c/w connectors)



Free Upgrade - Contact NTI (1-800-688-2575) to receive your free AC Freeze-stat to update Matrix units manufactured prior to July 27, 2010.



Freeze Ups - Failure to install the AC Freeze-stat correctly may cause hydro-coil freeze-ups in the event of inadequate air flow or component failure, resulting in property damage.



This procedure must be performed by a trained technician familiar with the construction of the specific AC evaporator coil. Failure to follow this warning may cause damage to the refrigerant lines resulting in property damage and or personal injury.

Lighting / Shutting Down the Appliance



Read Before Proceeding - If you do not follow these instructions exactly, a fire or explosion may result causing property damage, serious injury or death.

FOR YOUR SAFETY, READ BEFORE OPERATING

- A) This appliance does not have a pilot. It is equipped with an ignition device which automatically lights the burner. Do not try to light the burner by hand.
- B) BEFORE OPERATING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
WHAT TO DO IF YOU SMELL GAS:
 - Do not try to light any appliance.
 - Do not touch any electric switch.
 - Do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- C) Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- D) Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

TO TURN OFF GAS TO THE APPLIANCE

1. STOP! Read the safety information above very carefully.
2. Turn off all electric power to the appliance.
3. Turn the manual gas valve to the OFF position.



Installation Procedure

- Power Down** - To turn off power: a) locate the Manual Gas Shutoff Valve outside the unit, b) turn the valve off, and c) shut off electrical power to the appliance. Refer to the section on "Lighting/Shutting Down the Appliance" on the facing page.
- Drill a Hole** - Drill a 9/16" hole in the supply plenum immediately above the Matrix hydro-coil, beneath the AC evaporator coil.

CAUTION

Verify the location of the AC evaporator coil and associated components prior to drilling to avoid damage.

- Positing the Freeze-stat** - Insert the AC Freeze-stat into the hole and position the grommet securely in the hole, tape into place if necessary.

CAUTION

Verify that the AC Freeze-stat rests directly ontop of the Matrix hydro-coil to ensure proper operation.

- Wire Terminations** - Wire the AC Freeze-stat in series with the return (common) line between the outdoor AC condenser input and the Matrix 24VAC Common terminal, see attached wiring schematic.
- Power Up and Operational Test** - Turn power on and test the circuit operation by applying a cooling call via the thermostat; the outdoor AC condenser should turn on. Then disconnect one of the electrical connections at the AC Freeze-stat and verify that the outdoor AC condenser turns off; then reconnect wiring.

