

INSTALLATION & SUBMITTAL DATA

freeze stat

gas-fired duct furnace/make-up air units

model series: "D", "H", "I", & "O"

WARNING

1. Disconnect power supply before making wiring connections to prevent electrical shock and equipment damage.
2. All units must be wired strictly in accordance with wiring diagram furnished with the unit. Any wiring different from the wiring diagram could result in a hazard to persons and property.
3. All wiring must be done with a wiring material having a temperature rating of at least 105°C.

IMPORTANT

The use of this manual is specifically intended for a qualified installation and service agency. All installation and service of these units must be performed by a qualified installation and service agency. Modine manuals may contain excerpts from component supplier literature adapted for Modine products. Any accompanying component supplier literature is for general information.

Application

100% Make-up Air Units

The purpose of the freeze stat is to prevent extremely cold air from being supplied to the occupied space by measuring the discharge air temperature. The freeze stat is field installed in the discharge ductwork to sense the discharge air temperature. If the discharge air temperature falls below the set point (typically 40°F), the fresh air dampers are closed, and the blower motor and the gas controls are de-energized.

Heating and Recirculating Air Units

The purpose of the freeze stat is to prevent extremely cold air from being supplied to the occupied space by measuring the discharge air temperature. The freeze stat is field installed in the discharge ductwork to sense the discharge air temperature. If the discharge air temperature falls below the set point (typically 40°F), the fresh air dampers are closed, but the blower motor and the gas controls remain energized. If desired, the wiring can be modified to de-energize the blower motor and the gas controls.

Installation and Wiring

Installation of wiring must conform with local building codes, or in the absence of local codes, of the National Electric Code ANSI/NFPA 70 - Latest Edition. Unit must be electrically grounded in conformance to this code. In Canada, wiring must comply with CSA C22.1, Part 1, Electrical Code.

Wiring Diagram Selection

- For system units: refer to the job specific unit wiring diagram provided with the unit.
- For deviations to these wiring diagrams or the job specific wiring diagrams: consult the factory.