

F-D
MODULAR DIRECT FIRED HEATERS



- ❑ Air Volume: 1000 - 21000 cfm
- ❑ Maximum SP: 3" wg. @ standard air density

The Direct Gas Fired Make-Up Air package is designed to deliver tempered make-up air for installations requiring frequent air changes. Units are designed for natural and propane gas applications, and for indoor or outdoor installation.



Direct Gas-Fired Heater, ETL Listed, for use in tempering make-up air. Packages are certified to the ANSI Z83.4a-2001/CSA 3.7a-2001 combined safety standard and are available in sizes up to 2,500,000 BTUH and 21,000 CFM. Units are designed for natural or propane applications and are rated for indoor/outdoor installations in commercial occupancies. A unique feature is the self-adjusting burner profile plates allowing 2-speed and variable-air-volume applications. The plates ensure proper air velocity and pressure drop across the burner for clean combustion. Spring-loaded profile plates react to the momentum of the fresh air stream, therefore, no motors or actuators are needed to drive them, nor do they need to be manually set to a specific position.

Standard features include intermittent spark ignition system with timed safety lockout, and redundant gas valves. Units consist of a galvanized enclosure with an elevated gas burner which burns directly in the air stream. The burner consists of non-clogging, stainless steel combustion baffles attached to a aluminum gas supply section. The burner is capable of 100% thermal efficiency with a maximum turndown ratio of 30 to 1. The products of combustion mix with the make-up air which is introduced into the heater intake directly from outside the building. The burner module has a standard horizontal inlet and discharge duct connection and is located upstream of the blower module. The blower module has a standard horizontal inlet designed to accommodate an outside air inlet hood with standard 2" filters and screen.

To satisfy a variety of installation requirements, packages are available in a number of configurations which include additions of either a v-bank or an evaporative cooler intake module. All modules bolt together to form a rigid common base structure that mounts onto a single curb structure.

Combination packages that include both exhaust and supply fans mounted on a single roof curb are also available, please contact your sales representative for more information.

FEATURES & BENEFITS

- ❑ G90 galvanized construction.
- ❑ Easy access doors.
- ❑ Lifting points.
- ❑ Pre-wired, pre-piped controls.
- ❑ Horizontal or down discharge.
- ❑ Vibration isolation.
- ❑ High efficiency motors.

- ❑ Adjustable drive sheaves.
- ❑ Fully insulated casing.
- ❑ Stainless steel burner.
- ❑ 120 volt control transformer with single point electrical connection.
- ❑ Redundant gas valves.
- ❑ Intermittent spark pilot with timed safety lockout.
- ❑ Electronic flame modulation.
- ❑ High temperature limit switch.
- ❑ Airflow proving switch.
- ❑ Economizer inlet thermostat.
- ❑ Motor starter.
- ❑ Disconnect switch.
- ❑ Burner observation port.

OPTIONS

- ❑ Propane Fuel Application.
- ❑ Room Override Thermostat.
- ❑ Motorized Intake Damper.
- ❑ Remote control panel including summer/winter switch and operating lights.
- ❑ Freeze Stat with Bypass Timer.
- ❑ Hi/Low Gas Pressure Switches.
- ❑ Room Modulating Thermostat.
- ❑ High Gas Pressure Regulator.
- ❑ Convenience Outlet.
- ❑ DX Cooling Coils.
- ❑ Evaporative Cooler Intake.
- ❑ V-Bank Filter Intake.
- ❑ Sloped Filter Intake.
- ❑ Auxiliary Starters.
- ❑ Inlet Gas Pressure Gauge.
- ❑ Indoor Hanging Cradle.
- ❑ VAV Packages.
- ❑ Roof Curbs.
- ❑ Clogged Filter Switch
- ❑ Cooling Thermostat and Interlock
- ❑ Extra Set of V-Belts

CERTIFICATIONS

The FD Model has been certified by ITS. This certification mark indicates that the product has been tested to and has met the minimum requirements of a widely recognized (consensus) U.S. and Canadian products safety standard, that the manufacturing site has been audited, and that the applicant has agreed to a program of periodic factory follow-up inspections to verify continued performance.



Model FD is ETL Listed under file number J20042560-001 and complies with ANSI Z83.8-2006 Standards and CSA 2.6-2006 Standards.