Indirect Fired

Commercial and Industrial Climate Control Systems

Space Heating and Make-Up Air Applications

Seamless Solutions

Applied Air
In the business of commercial and industrial heating, Applied Air stands out as an expert in gas heating technology.

Since 1975, Applied Air has been providing cost-effective, reliable heating solutions. Our flexible, “modular” IF Indirect Fired heating systems add warm, fresh and clean air to your work environment at the highest practical efficiency of 80%.

Heats Without Condensation
The IF product line operates at efficiencies of 80% in order to avoid the highly corrosive effects of condensation inside the heat exchanger tubes. Efficiencies over 80% can cause serious problems for normal heat exchanger materials.

Replaces Indoor Air
The IF line replaces indoor air that can become chemical laden in a painting or processing operation, but without adding dust.

Replaces Lost Heat
Large volumes of exhaust air from kitchen hoods or industrial processes take away lots of heat from the space. IF units replace the heat efficiently.

Direct Drive Induced Draft Fan
Efficient, maintenance-free fan and motor assembly add to system gas burning efficiency.

Control Cabinet
Provided with fuses and power transformer for single point electrical connection.
Indirect Fired gas heating works by transferring heat from a gas flame to a steel chamber and then to the supply airstream. Each transfer of heat results in a loss of efficiency, and some of the original gas flame heat is lost. The amount of loss can be minimized by:

- Using a powered burner to spread the flame deep down the steel chamber.
- Pulling the flame heated air evenly through all of the steel tubes by using an “induced” draft fan.
- Exposing the supply air to as much tubing as possible by using multiple “passes.”

**Heats Small or Large Buildings**

With airflows from 3,500 to 94,000 CFM and heat outputs from 350,000 to 6,000,000 BTUH, you can heat any size building.

**Improves Comfort Anywhere**

IF units are available for indoors (IF), outdoors (IFW), or roof curb mounting (IFR). You can even add DX or chilled water cooling coils for a total comfort solution. Two pass (IFD) and four pass (IFX) IF duct furnaces are available for systems where air handler is already in place.

**Testing**

During construction, Applied Air uses laser technology for bearing alignment. All Applied Air indirect fired units go through a 140 point checklist prior to shipping.

**Heat Exchanger**

Four pass heat exchanger provides high efficiency, without use of turbulators, and maximum heat exchanger life.

**Gas Burner**

Power type gas burner for maximum efficiency with optional controls to comply with FM & IRI.
Applied Air

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