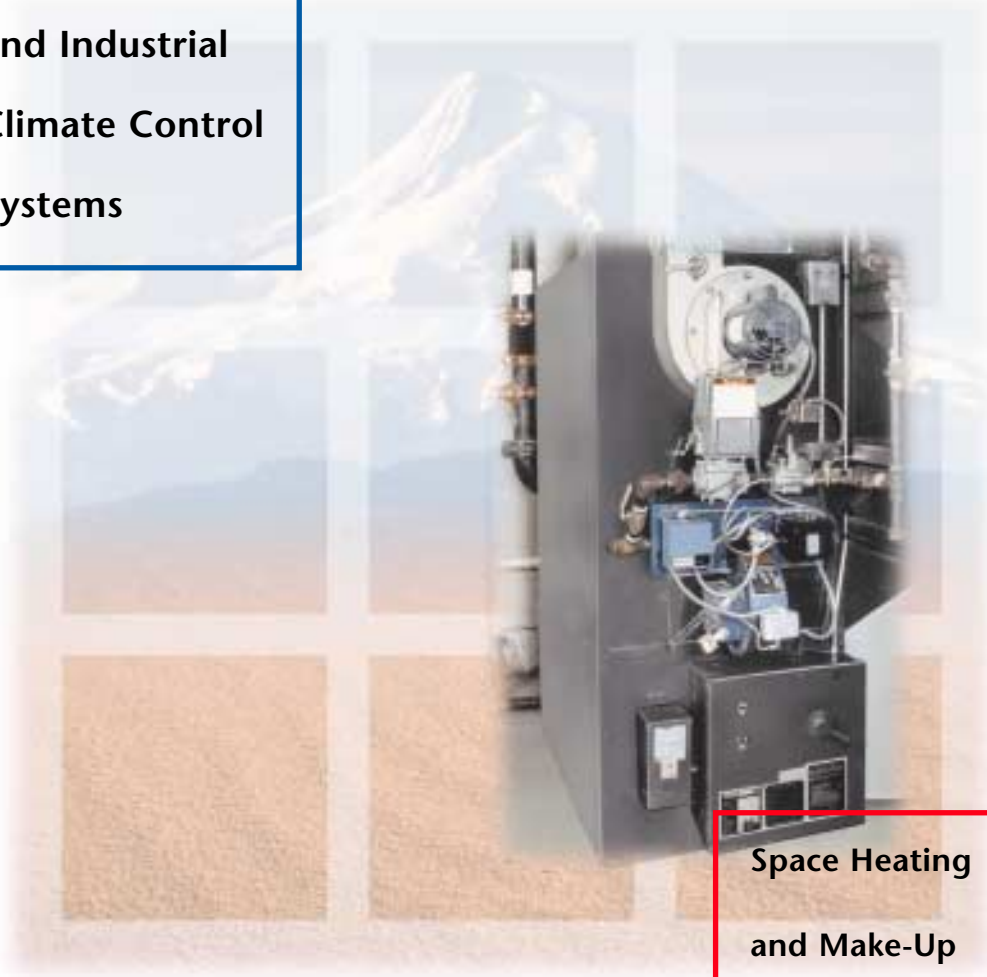


# Indirect Fired

**Commercial  
and Industrial  
Climate Control  
Systems**



**Space Heating  
and Make-Up  
Air Applications**

Seamless



**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

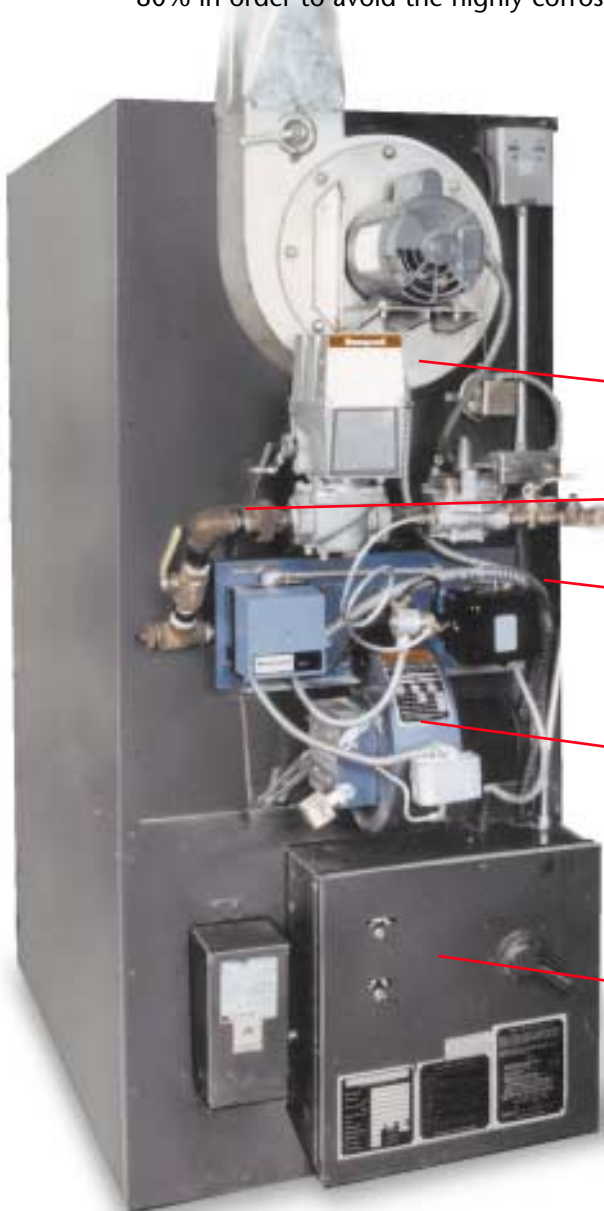
effects of condensation inside the heat exchanger tubes. Efficiencies over 80% can cause serious problems for normal heat exchanger materials.

### 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 (not on IFD Models)

*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.*



- **State-of-the-art laser sighting equipment is used to align bearing mounts on shafts up to 14 feet long.**

**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.



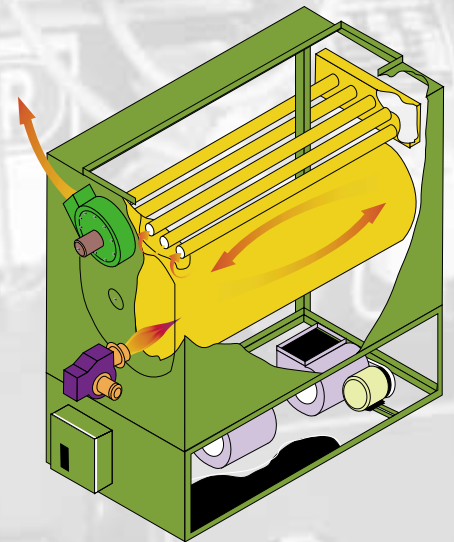
**Gas Burner**

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

**How Indirect Fired Heating Works**

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."





# Applied Air

## Climate Control Systems



Applied Air

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