

Direct Fired

Commercial
and Industrial
Climate Control
Systems



Space Heating,
Make-Up Air
and Ventilation
Applications

Seamless



Applied Air



In large commercial and industrial spaces, efficient and low-cost replacement of exhaust air is essential.

Since 1975, Applied Air has been providing cost-effective, reliable heating solutions. Our innovative Direct Fired gas heating systems add warm, fresh and clean air to your work environment for about 20% less than the operation and maintenance costs of indirect gas heat.

Heats Without Complications

The Direct Fired gas heating system heats efficiently and cost-effectively using no heat exchanger.

Replaces Indoor Air

The Direct Fired gas heating system replaces indoor air that can become chemical laden in an industrial process or commercial cooling application.

Provides Ventilation

Fresh air is available simply by turning off the heating section.

Cleans and Tempers Incoming Air

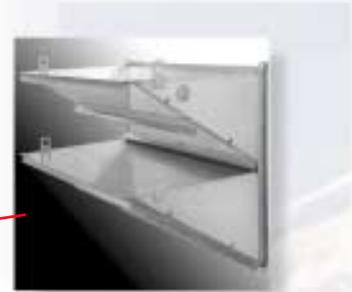
The optional filter bank removes airborne particles, and cleaned air is heated to create a more refreshing and comfortable indoor environment.

Applied Air offers three styles of Direct Fired gas heating systems:

- Indoor units (DFM)
- Large outdoor units (DFC)
- Small indoor or outdoor units (DFL)

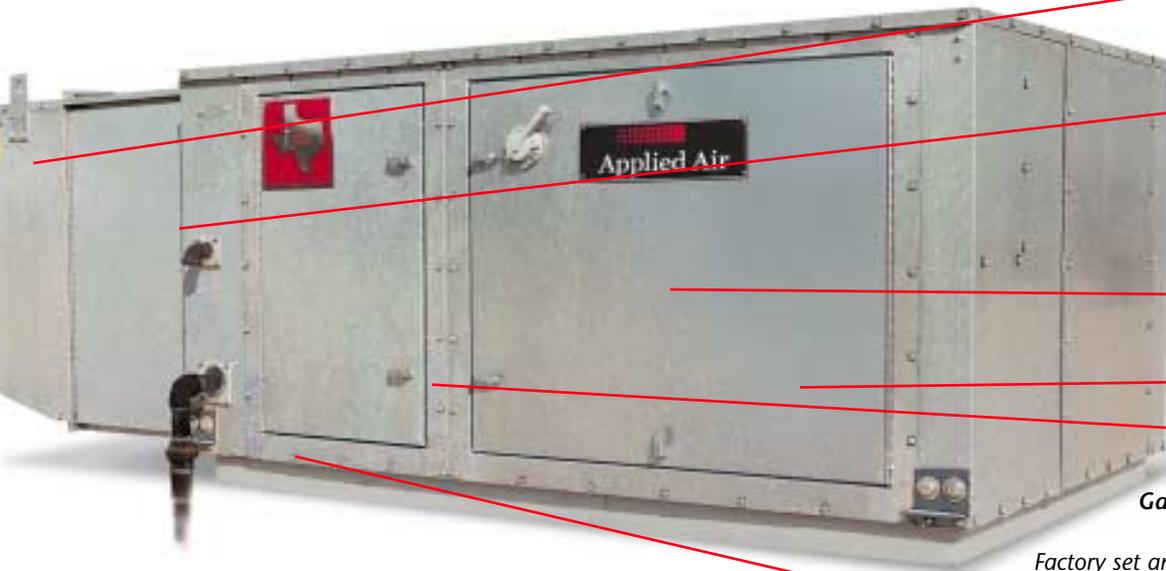
Optional Intake Hood

For outdoor models (DFC, DFL), Applied Air offers a complete matching intake hood.



Access Doors

Full size doors provide easy access to fan, burner, and controls. Access doors are hinged and use industrial grade fasteners.



Gas Burner Section

Factory set and tested to ETL standards for 100% efficiency.



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• **By using carefully designed and sized profile plates, Applied Air can assure 100% efficiency of combustion. This produces low operating cost and no harmful by-products.**

Air Delivery for Small or Large Buildings

With fans tested to AMCA standards for airflow from 1,600 to 100,000 CFM, you can put warm air right where you need it.

Improves Comfort Anywhere, Anytime

Add cost-effective evaporative cooling to your Direct Fired gas heating system for year-round comfort.

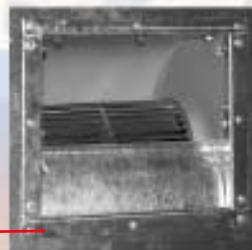
How Direct Fired Gas Heating Works

Direct Fired gas heating is one of the simplest and most cost-effective methods for heating air.

Outside air enters the unit (at point C). Signal from remote control I to AdaptAir Controller D, sets operational parameters for dampers B and C. Damper operation can be manual, building pressure, or mixed air temperature.

This air then passes over a line burner. The airflow pattern is closely controlled using profile plates, resulting in 100% efficient combustion. The air is directly heated by this clean, controlled gas flame and distributed into the building using heavy duty centrifugal blowers (G).

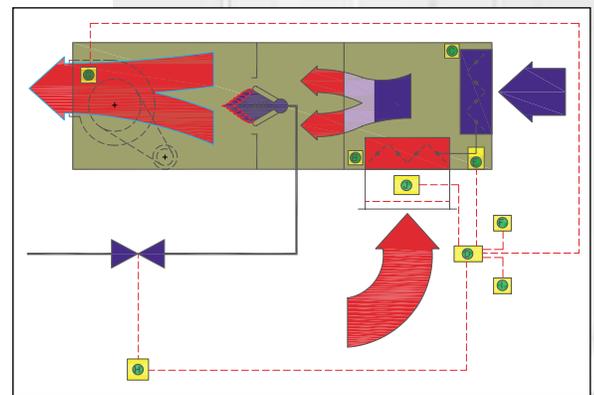
Filter
Optional filter module keeps out bugs and helps minimize accumulation of dust, dirt and airborne particles in the space.



Blowers

Direct Fired units feature centrifugal blowers tested to AMCA standards and motors with adjustable bases.

Gas Manifold
Completely factory assembled and tested.



By carefully controlling the airflow pattern and volume, the system can provide complete, 100% combustion. The AdaptAir Controller will control temperature rise to ensure complete combustion producing only water vapor and safe amounts of carbon dioxide (CO₂). Harmful combustion by-products are the result of incomplete combustion – and a good reason why you should buy from an established expert in gas heating technology.



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