



Welcome to OPPORTUNITY, a monthly newsletter provided by Jacco & Associates. Jacco's focus on engineering and design concepts will improve your HVAC system while significantly reducing design time, making you more productive for your clients.

October Feature:

HASTINGS HVAC AFX Series Heating Systems

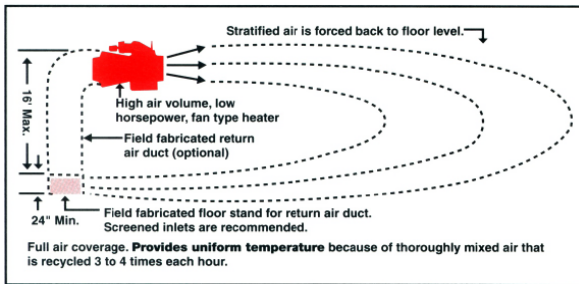
What is the AFX Series Heater?

The AFX indirect-fired series is a suspended automatic high volume heater.

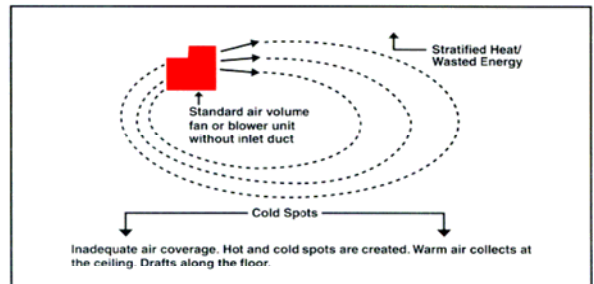
How does the AFX Series Heater Function?

Continuously circulating the building's air volume several times each hour, the AFX series heater develops a gentle air rotation pattern, without requiring a duct system. The air circulation sweeps warmer ceiling air down to the comfort level, thereby minimizing the stratification. As the suspended heater does not interfere with normal building activity, AFX series high air supply system maintains room comfort by spreading lower temperature heat to all corners of the building.

AFX Design with Low Temp Rise & High Air Volume



Unit Heater Design With High Temp Rise & Low Air Volume



How does the AFX Series Heater save energy?

- Burner operation is reduced because the high volume air circulation minimizes air stratification, thereby returning warmer air to the heater.
- The larger air volume circulation also utilizes heat recovered from internal and solar gains normally found at the upper building levels.
- Transmission heat losses are reduced because of lower indoor-outdoor temperature differentials at the upper building levels. The low air pressure drop through Hastings heat exchangers in combination with specially designed propeller fans results in the AFX series suspended heaters delivering high air volumes at considerably less motor horsepower than comparable blower type units.

How do I size the AFX Series Heater and what are the costs?

The heaters are typically sized for 3 air changes per hour, and they are available in 3 different sizes. This chart shows basic sizing and pricing for a building with 16' tall ceilings (price includes 2 stage thermostat, 409ss heat exchanger and freight).

Unit Size	CFM	MBH	Area Served (ft ²)	Price
120	3,580	215	6,000	\$2,200
220	6,272	220	10,500	\$2,830
224	8,500	400	14,000	\$3,360

October Question & Answer:

Question: In an energy study of a warehouse building measuring 180' x 360' x 26' with a 6,700mbh heat loss, how much money was saved in utility bills for a 90 day period versus a unit heater system?

- a.) \$4,000 b.) \$9,000 c.) \$14,000 d.) \$19,000

Prize: (2) Single day passes to Holiday Valley Ski Resort

Respond to this email by the 30th with the correct answer and be entered into a raffle for this month's prize!

September Question & Answer:

Question: How long has Copeland's variable capacity scroll compressor been in production?

Answer: 10 years - Congratulations to Joe Verostko for winning September's prize!

Did you know that Copeland shipped its 2 millionth R-410a scroll compressor this summer? And that Copeland's parent company, Emerson Climate Technologies, is based in Sidney, OH?