



IN-SITU AND EM STYLE RECUPERATORS

Saving Money On Fuel Costs, Lowering Emissions

In the highly competitive business of heat treating, it is essential to have combustion equipment that operates efficiently, is durable, and is environmentally emission-friendly. With fuel prices rising and exhaust emissions regulations becoming increasingly stringent, it is more important than ever to control fuel cost and lower emissions.

AFC-Holcroft IN-SITU (Plug-In Type) and EM (Stack Type) recuperators can help you control both of these challenges

The recuperator is essentially a heat exchanger. It extracts heat energy from the higher temperature flue gases and transfers it to the lower temperature air used for combusting the fuel. Therefore, less energy is required to raise the air gas mixture to processing temperatures, resulting in fuel savings and lower volume of exhaust emissions. AFC-Holcroft offers two types of designs, suitable for most furnace installations.

Recuperator Design Features

- Specially designed for heat treat process furnaces.
- Applicable to radiant tube or direct fired furnaces.
- Low pressure drop for flue gas flow
- High thermal transfer rate
- Available in corrosion resistant alloys
- Simplified installation
- Offers a variety of installation possibilities
- Can be retrofitted to many makes and types of furnaces

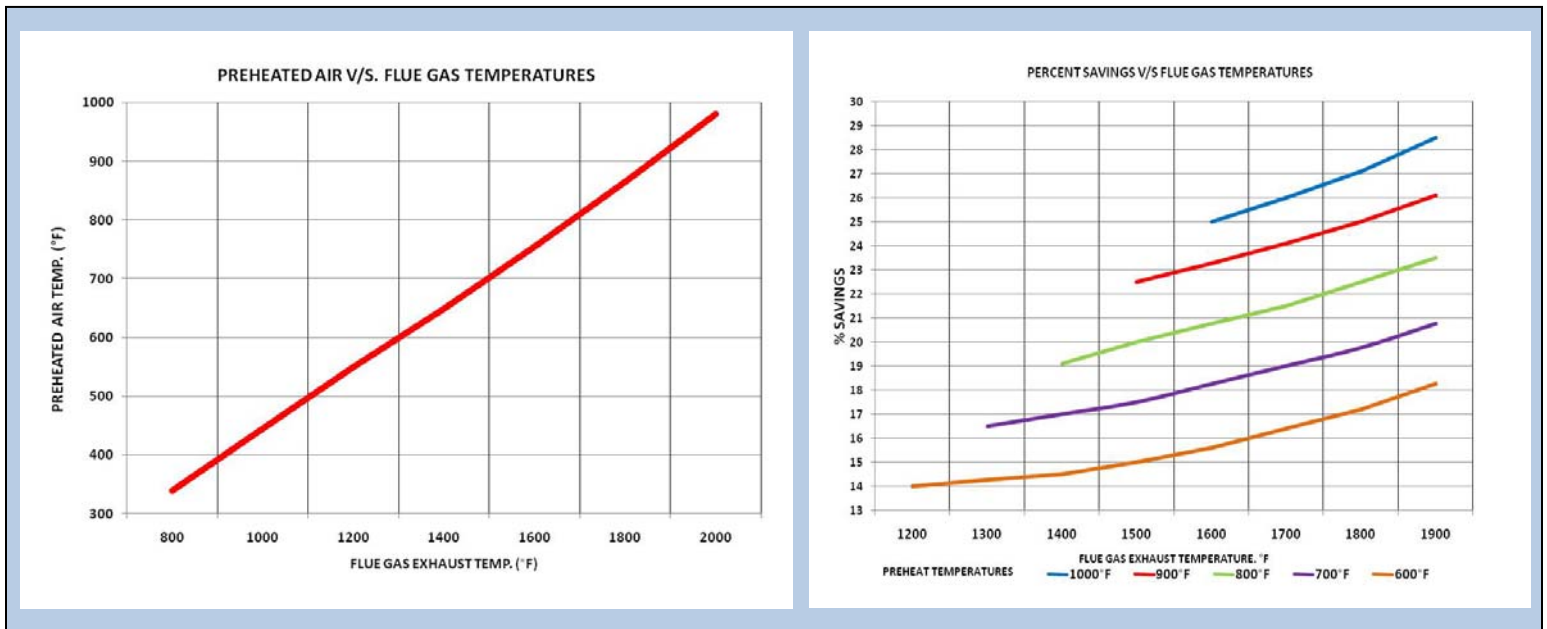


AFC-Holcroft EM-Style Recuperator

Benefits

- AFC-Holcroft recuperators capture thermal energy normally wasted in furnace flue gas exhaust.
- Transfers wasted thermal energy to incoming combustion air to provide pre-heated air to the burners.
- Recovered energy returns to the process.
- Depending on the furnace's exhaust temperatures, fuel savings are in the range of 15-25%.
- Average less than 1 to 1.5 years pay-back duration.
- Due to fuel savings, less exhaust per million Btu; therefore, less pounds of exhaust emissions (NO_x, CO₂, H₂O, SO₂, etc.)

Chart Data



Proven Test Results

The laboratory test results at our facility are the basis for the graphs. These results have been verified using data collected from actual furnace installations over a span of several years.

When Experience Counts

Thousands of AFC-Holcroft recuperators are now in service, saving our customers substantial amounts of energy and money, every day.*

AFC-Holcroft can help you keep more of your energy dollars and reduce emissions. Consultations and energy surveys can be arranged to assist you in determining potential fuel savings.

** With rising costs of energy, the payback is very promising. For example, one radiant tube burner firing 300 scfh of natural gas operating at 24 hours/day, 7 days/week, 48 weeks/year will save \$4,350.00, assuming natural gas price at \$9.00/1000 scf.*



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