REGENERATIVE BURNERS

Regenerative burners are installed in pairs with one acting as an exhaust as the other fires. When exhausting, refractory media recovers and stores heat from the flue gases. While firing, the heat is recovered from the media by preheating combustion air. Direct fired and radiant tube regenerative burners are available from Bloom Engineering Company, Inc.

Regenerative Burners Achieve:

- Combustion efficiency previously unattainable.
- Increased production from existing facilities.
- Smaller furnaces in new installations.
- Reduced emissions of carbon dioxide and carbon monoxide.
- With Bloom's patented designs, lower NO_x emissions that with recuperative or even cold air approaches.

Bloom is Your BEST Regenerative Burner Option because:

- Bloom is the world-leader in low NO_x technology.
- Bloom's unique baffle burner design has proven its reliability and performance over decades of use.
- Bloom's burner is stable from cold start-up to nominal operation and through an extensive turndown range.
- Bloom's patented control technology maximizes combustion efficiency and minimizes environmental impacts.
- Bloom will custom engineer for your specific requirements.

Contact your nearest Bloom representative or Bloom in Pittsburgh at 412-653-3500 or fax 412-653-2253 to arrange a meeting with a sales representative. Laboratory demonstration and tours of installation can be arranged at appropriate times as specific projects develop.

CAUTION: The improper use of combustion equipment can result in a condition hazardous to people and property. Users are urged to comply with National Safety Standards and/or Insurance Underwriters recommendations

REGENERATIVE BURNERS
1150 SERIES ULTRA^3 LOW NO_X™
1100 SERIES ULTRA^2 LOW NO_X™

CAPABILITIES

- World leading low NO_x technology
- Reduced carbon dioxide emissions
- Increased production from existing furnaces
- Smaller furnaces in new facilities
- Stable operation from cold start through entire operating range
- Excellent turndown
- Custom engineered for the application

FEATURES

- Refractory baffle protects burner body, stabilizes and tailors flame, is self-supporting and provides gas nozzle support
- Burner design is the most reliable available
- Longest duration between media cleaning
- Most reliable component operation
- Rugged fabricated construction

CONTROL

- Volumetric Air Ratio Control

FLAME MONITORING

- U.V. Detector

APPLICATIONS

- Continuous and Batch Reheating Furnaces
- Non-Ferrous Melting and Holding Furnaces
- Ladle and Tundish Heaters
- Forge Furnaces
- Many other High Temperature Processes

BURNER IGNITION

- Pilot

FUEL CAPABILITIES

- Natural Gas
- Coke Oven Gas
- LP Gas
- Most liquid fuels including #6 Oil

OPTIONS

- Quick opening door
- Quick change media case design
- Straight or angled mounting

Manufactured under U.S. Patent No. 5,180,300

CAUTION: The improper use of combustion equipment can result in a condition hazardous to people and property. Users are urged to comply with National Safety Standards and/or Insurance Underwriters recommendations