

ECLIPSE®

Innovative Thermal Solutions

DISTRIBUIDOR AUTORIZADO

Typical Applications for gun style:

- Industrial Drying and curing ovens
- Automotive paint drying ovens
- Baking/Food Processing
- Thermal Fluid Heaters
- Water Bath Vaporizer
- Metals (Curing, Drying)
- Incinerations

Typical Industries:

- Automotive & General Finishing
- Food and Beverage
- Petro/Petrochemical
- Building Materials
- Glass (annealing)
- Indirect air heating
- Metals Finishing

Ratio Matic

Low Temp Gun Style: RatioMatic, Eclipse Brandt

Description: Packaged air heating burner that features simple operation and robust, reliable performance.

Specs:

- 14 Sizes from 0.5 to 30 MMBtu/h (135 to 8000kW)
- Packaged Blower Available on All Sizes (60Hz)
- From 21:1 Up to 90:1 Turndown , depending on sizes
- Modulates air/ gas with ratio regulator , compensates dirty air filter
- Modulating with High Excess Air on Turndown
- Standard Emissions, NOx: 60 to 80 ppm (high fire) CO: 60 to 80 ppm (high fire)
- Natural Gas, Propane, Butane
- Max Process Temp: 1900°F (1038°C)



Ratio Air

Low Temp Gun Style: RatioAir

Description: A packaged velocity burner that allows a wide range of fuels and flame speeds of up to 500 ft/s (150 m/s)

Specs:

- 11 Sizes from 0.25 to 20 MMBtu/h (250 to 5330kW)
- Based on the ThermJet Platform
- Packaged Blower Available on All Sizes (60Hz)
- 30:1 Turndown
- Modulates air/gas with Ratio Regulator Controlled , simple
- Alloy, Ceramic, or Refractory Combustor Options
- Standard Emissions
- Natural Gas, Propane, Butane, Landfill gas, Low Btu Gases
- Max Process Temp: 2800°F (1538°C)



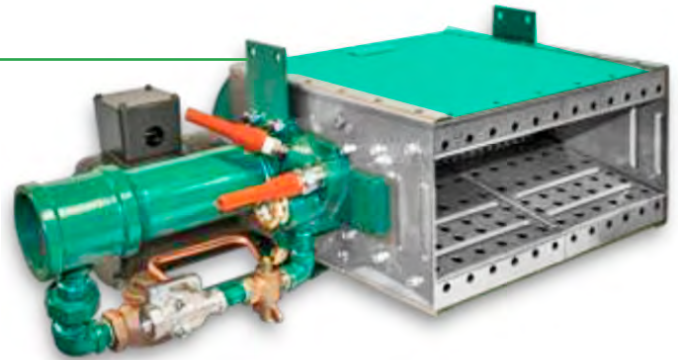
AirHeat v1

Low Temp Line Style: AirHeat v1

Description: compact modular burner with robust, reliable performance, and stable operation in many duct velocities. Industry standard for generating large volumes of hot air for a wide range of industrial heating applications.

Specs:

- Forced Draught, Fixed Air
- Nozzle Mixing
- 0.8 or 1.0 MMBtu/h per Foot (260 kw/300 mm) - Straights, Tees, and Crosses
- 40:1 Turndown
- Standard Emissions
- Natural Gas, Propane
- Max Downstream Temp: 1500°F (815°C)



Typical Applications: • Food Processing/Baking • Industrial Drying (Building Materials, Ceramics, Textiles)
• Automotive Finishing • General Finishing • Dry Off and Curing Ovens • At least 50,000+ installed base, AH most popular line burner.

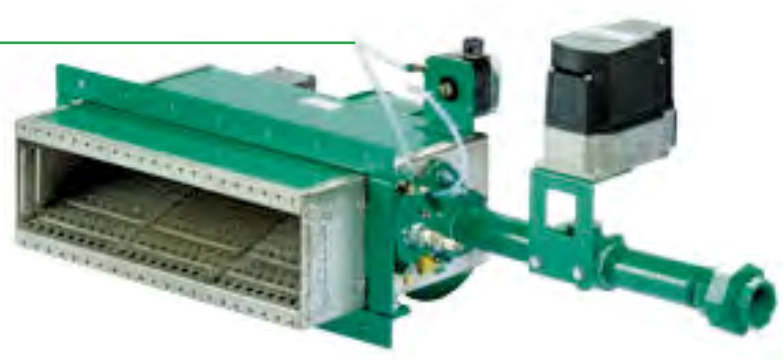
AirHeat v2

Low Temp Line Style: AirHeat v2

Description: line burner that provides simple, reliable operation plus extremely low CO emissions in a compact/modular design.

Specs:

- Forced Draught, Fixed Air
- Nozzle Mixing
- 1 M Btu/h per Foot (260 kW/300 mm)
- Straights with Limited Tees & Crosses
- Gas manifolds available in Aluminum, Cast Iron, and Ni-plated C.I. - 40:1 Turndown
- Standard NOx, Low CO Emissions
- Natural Gas, Propane
- Max Downstream Temp: 1500°F (815°C)



Typical Applications: • Food Processing/Baking • Industrial Drying (Building Materials, Ceramics, Textiles)
• Automotive Finishing • General Finishing • Dry Off and Curing Ovens • At least 50,000+ installed base, AH most popular line burner.

ThermJet

High Therm Direct Fired

Description: High velocity, direct fired furnace burner that is easy to set up, reliable, has robust performance, and is designed to fire an intense stream of hot gases through a high velocity nozzle. The high velocity improves temperature uniformity, product quality, and system efficiency.

Typical Applications:

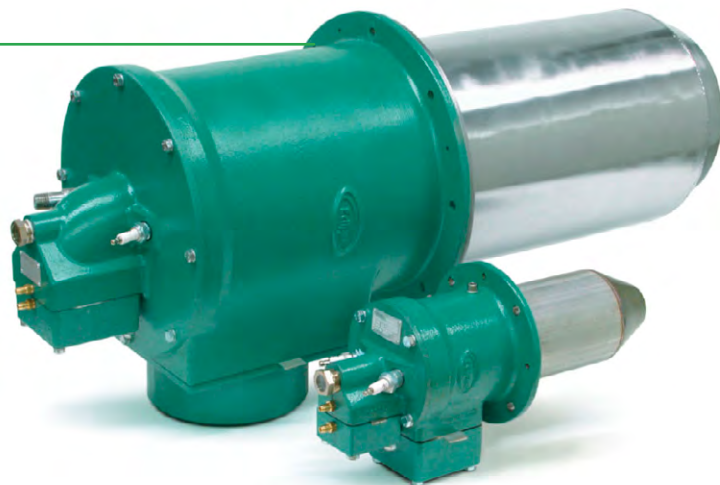
- Metals – Tempering, Reheating, Hardening, Melting, Annealing, Forging, Ladle Heaters
- Incinerators / Thermal Oxidizers
- Ceramics
- Hot Air Generators

Specs:

- • 14 Sizes from 0.15 to 20 MMBtu/h (40 to 5275kW)
- Up to 50:1 Turndown with fixed air (10:1 on Ratio)
- Modulation with High Excess Air at Low Fire
- Direct Spark Ignition – All Sizes
- Flamerod Sensing up to 2 MMBtu/h
- Preheated Combustion Air Capability (1000°F/540°C)
- Alloy, Ceramic, or Refractory combustor
- Standard Emissions
- Flame Speeds up to 680 ft/s (207 m/s)
- Natural Gas, Propane, Butane, Coke Oven Gas, Other Gases on Request
- Max Furnace Temp: 2800°F (1540°C)

Sales Tips/Success Stories:

- Staged air nozzle – helps to lower NOx (compared to other high velocity, direct fired burners in the market)
- Can accept very high excess air (2000%+)
- Very large ignition and flammability zone
- Integrated orifice plates – small physical size for the amount of output
- Burns multiple fuels with the same nozzle
- Huge installed base - close to 100,000 globally



TFB Tube Firing Burner

High Therm Indirect Fired

Description: TFB provides an intense, adjustable length flame with a unique swirling action that improves tube temperature uniformity; when paired with the Bayonet Ultra Recuperator and E-Jector burner efficiency is improved up to 65%, and NOx reduced by 50%.

Typical Applications:

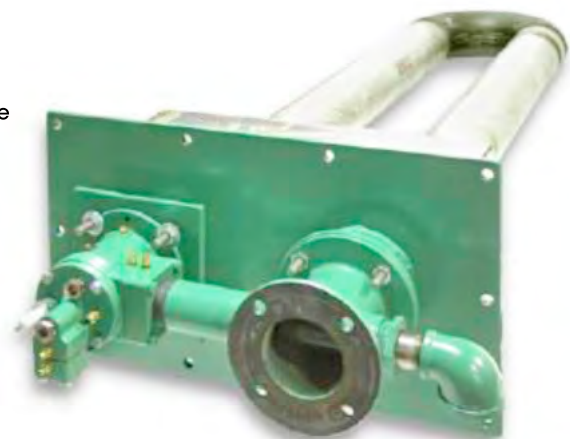
- Metals – Tempering, Hardening, Annealing, Galvanizing • Liquid Heating

Specs:

- Standard for multi-bend tube applications in heat treat furnaces
- Many OEM :Surface Combustion, JL Becker, Can-Eng, San-Yung,
- Fuel savings of up to 40%
- Many installation in Mexico, Colombia and Brazil
- Schaeffer in Irapuato , continuous Normalizing furnace (Automotive parts)
- Especialidades Termicas , Heat treater , many types applications

Sales Tips/Success Stories:

- 3 Sizes from 300 to 2000 kBtu/h (80 to 530kW)
- 30:1 or more Turndown
- Long, Spiraling Flame
- Natural Gas, Propane, Butane
- Max Furnace Temp 1900 F (1040 C) with PCA up to 550 C
- Bayonet Ultra (BU) Recuperator:
 - 3" to 6" (76 to 152mm) ID Tubes with Larger Sizes possible
 - Air Cooled Housing
 - Max Process Temp 2100 F (1090 C)
 - Burner efficiency improved up to 65%
- E-Jector FGR Device for Low NOx
 - Sizes from 4" to 6" (102 to 152mm)
 - NOx reduced by 50%



SER Single Ended Recuperative Burner

High Temp Self Recuperative

Description: Compact, self recuperative burner for indirect heating applications. It is easy to set up, and can achieve up to 70% efficiency.

Typical Applications:

- Metals – Tempering, Hardening, Annealing, Galvanizing
Heat Treating, Continuous Lines

Specs:

- Standard Emissions
- TJSR Platform with a Radiant Tube
- 3 sizes from 140 to 300 kBtu/h (37 to 80kW)
- Three Tube Sizes
 - 4.5" (114mm)
 - 6" (152mm)
 - 8" (203mm)
- 10:1 Turndown
- Internally insulated
- Up to 70% Efficiency HHV
- Max Furnace Temp: 1850°F (1010°C)
- Ceramic Recuperator Only; Metallic or Ceramic Outer Tubes

Sales Tips/Success Stories:

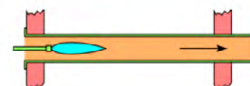
- SER-type burners are the standard in most batch furnaces and strip lines (driven by Europe)
- Ipsen, Beavermatic, Lindberg, have standardized on SER designs
- Installed at Altos Hornos , Steel hot Roll continuous furnace
- Compania Manufacturera , Irapuato, Heat Treating furnace
- Apisa Fastener , Botton carburizing furnaces
- Very easily adaptable to furnaces that were at one time electrically heated
- Because of the uniformity of the tube, all burners can be installed on one side of the furnace, which helps save floor space needed for maintenance
- Compared to the W-Tube and U-Tube applications, single tube
 - Maintenance is easier
 - Lost production time is reduced
 - Working environment just outside of furnace is cooler
 - Materials allow for longer tube life (SiC is 4-5 years vs. 18 months for W/U Tube).



Batch Furnace SERv3600



Aluminum Holding Tank



Altos Hornos , 185 Burners installation , 35 % fuel savings

TJSR Therm-Jet Self Recuperative

High Temp Self Recuperative

Description: TJSR is a direct fired, self recuperative burner that combines a high velocity flame with fuel saving recuperation providing improved furnace efficiency and reduced fuel consumption.

Typical Applications:

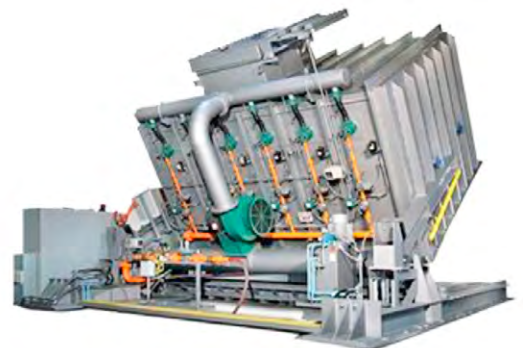
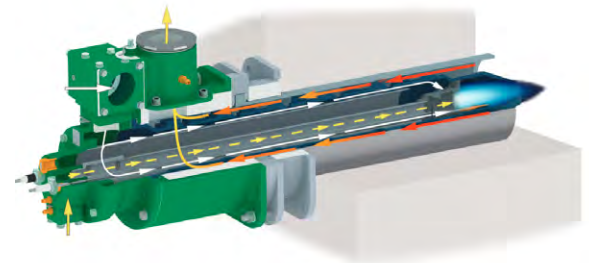
- Metals (Heat Treating, Tempering, Hardening, Melting)

Specs:

- Therm-Jet Self Recuperative
- 4 Sizes from 200 to 1000 kBTU/h (53 to 270kW)
- Integral Educator – Single Air Inlet
- Ceramic Recuperator Only
- Internally insulated
- 10:1 Turndown
- High Velocity from 498 to 551 ft/s (152 to 168 m/s) • Nozzle based on ThermJet Design
- Standard Emissions
- Max Furnace Temp: 2200°F (1200°C)

Sales Tips/Success Stories:

- Tremec – replaced Tempest(NA) two Normalizing
- 18 TJSR, 20 % fuel savings
- De Acero , Puebla – steel cord reheating furnaces, 12 TJSR , 24 % fuel savings
- Insertec, Ladle preheating in Aluminum (Automotive)
- Kohler , 15 TJSR Heat treater furnace



Control BV manual y automático

Descripción del producto

Las válvulas de mariposa Eclipse están diseñadas para controlar el flujo de aire y de gas en todos los tipos de sistemas de combustión. No deben utilizarse como válvulas de cierre herméticas.

Tips disponibles

Las válvulas están disponibles tanto para control manual como automático para tamaños de tubería desde 1/2" hasta 8". De paso pleno, paso reducido, y para construcciones con alta caída de presión, están disponibles dependiendo de tamaño y de la conexión de la tubería.

Conexiones roscadas

Desde 1/2" hasta 4" las válvulas están disponibles tanto para roscas NPT como para roscas de Rc. Las válvulas de 6" y de 8" son válvulas de mariposa tipo wafer, diseñadas para ser intercaladas entre las bridas de las tuberías de conexión.

Discos

Equipado con obturadores biselados o no-biselados, según la tabla de selección.

Indicación

Todas las válvulas de mariposa Eclipse ofrecen una placa de indicación fácil de leer y una ranura en el extremo del

Eclipse Paso pleno & Paso reducido

eje para proporcionar indicación visual de la posición del disco.

Control

Las válvulas de mariposa manuales de hasta 4" tienen una cubierta de ajuste (dial) para fijar la posición del obturador. Un tornillo de fijación asegura la cubierta en el ajuste deseado.

Las válvulas de mariposa de control automático pueden ser montadas con una palanca opcional. Esto permite su integración con gran variedad de controladores de posición.

Las válvulas de mariposa tipo wafer manuales se ajustan mediante el giro de un brazo de control. Este brazo puede ser fijado a la placa indicadora para asegurar su posición.



Mostrado con palanca opcional



Válvulas de compuerta

Válvulas de control de aire manuales



Válvulas

Válvulas de orificio ajustable

Ajuste preciso del flujo del gas.



Válvulas de verificación de tipo disco

Previene el flujo reverso de gas o aire.



Válvulas de mariposa

En paquete BV-Pak
Con actuador



Directorio



Contáctanos

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