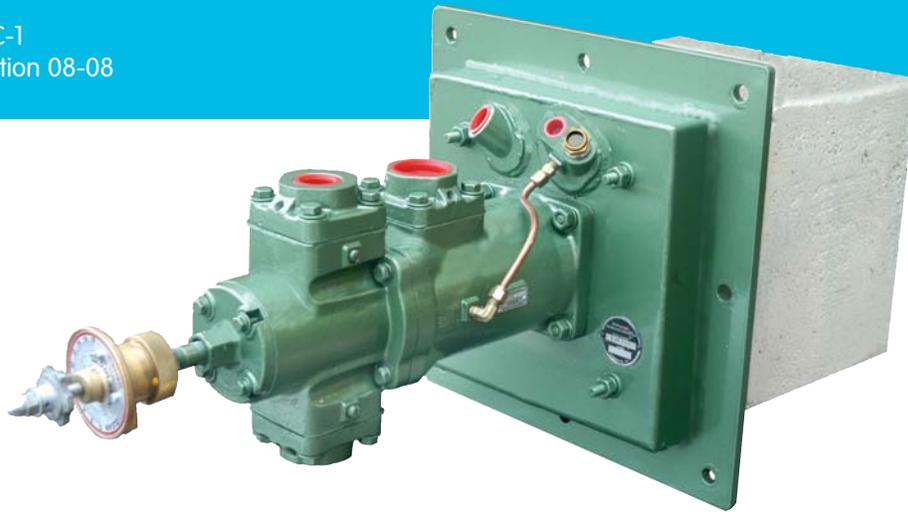


EJC

EnerJet High Velocity Gas/Oil Combination Burner

EJC-1
Edition 08-08



Hauck, a product brand
of the Elster Group



- Simple design for low maintenance operation
- Wide turndown
- High velocity recirculation of furnace gases for maximum heat transfer and temperature uniformity
- Built-in flow metering of gas and air
- Excess air and fuel capability
- Manual or automatic control
- Operates on gas or oil

Hauck's EJC EnerJet series high velocity combination burners have been specifically designed for applications where high velocity recirculation of heated gases is desired. This recirculation reduces the need for installing expensive high temperature fans or diluting flame temperatures with costly excess air. The burner's 'jet energy' entrains and recirculates gases for maximum heat transfer and temperature uniformity - resulting in increased production at reduced fuel consumption and cost.

The EJC will burn any clean industrial fuel gas or No. 2 fuel oil with the same performance characteristics on oil as on gas. Turndown, excess air and excess fuel performance are excellent on either fuel. The burner is available in four sizes from 400,000 to 4,000,000 Btu/hr (117 to 1,170 kW). It is also available in preheated air versions to 800°F (425°C), and in both high and medium velocity versions.

Efficient Operation

The EJC is stable over its entire operating range and can be controlled manually or automatically. A typical gas control system employs an air to gas ratio regulator, such as a Kromschroder GIK, per burner to maintain the air to fuel ratio. A typical oil control system employs an air to oil ratio regulator, such as a Hauck MRO, per burner to maintain the air to fuel ratio. Using an air to fuel ratio regulator per burner provides system balance and simplifies burner setup.

Construction

A simple design makes this burner virtually maintenance free. Parts subjected to heat are either of heat resistant cast iron or stainless steel. A special backplate/tile sealing arrangement completely eliminates overheating. The EJC's tile is made of a low cement castable refractory and runs at lower temperatures than typical combination fired pressurized tiles. Series 100 and 200 utilize a square tile design. Series 300 and 400 use a round tile.

Piloting/Flame Supervision

Provision is made for a spark ignited gas pilot. An ultra violet (UV) type flame detector system with constant purge is available for use with gas, oil, or combination fuels.

Air-Fuel Metering

Flow metering orifices in the EJC air and gas supply connections give accurate readings of air and gas volumes entering the burner. This built-in flow metering provides the means for 'fine tuning' and properly setting flow rates to achieve optimum performance with desired flame condition and at reduced cost. Optional oil flow meters are available to 'fine tune' the burner when firing No. 2 fuel oil.



For additional information on this product, visit our website at:

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