ECLIPSE GT/NG-DI UNDERPORT GAS BURNER

Dual impulse underport design allows adjustment of flame length and luminosity

Underport firing allows a high degree of flame coverage of the melt by using multiple burners mounted beneath the port sill, providing high thermal efficiency and easy access for adjustment and maintenance.

The Eclipse GT/NG Dual Impulse underport burner uses co-axial jets in which the center jet flow is adjustable by means of a calibrated metering valve attached to the burner. By altering the gas to the center jet, the thrust of the burner can be controlled, allowing the flame length to be varied by up to 30% without changing the nozzle and allowing easy optimization of the flame. This arrangement also increases the flame luminosity, providing greater heat transfer to the glass and lower NO_X.

The Eclipse burner sealing ring eliminates cold induced air around the burner, increasing efficiency, minimizing NO_X as well as prolonging nozzle and burner block life. The sealing ring has integral cooling using low pressure air. When used with this ring, the GT/NG burners do not require any compressed air for cooling.

Low NO_X Underport Gas Firing System



Use of the Eclipse Burner Support Bracket ensures accurate repeatable burner location, simple adjustment and quick removal of the burner, all of which are essential for an efficient underport burner system. (see Bulletin 1139C for additional information)

Features

- Low NO_X
- Adjustable flame length
- High luminosity
- Low maintenance
- Predictable and reproducible performance
- Burner sealing increases efficiency
- Simple, rapid and safe burner changing

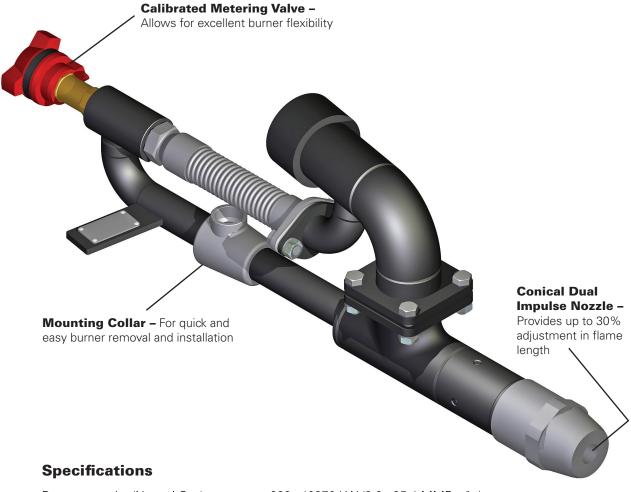
Special Assistance

Eclipse provides advice on furnace aerodynamics, port design and auxiliary equipment, as well as full supervision and commissioning services.



GT/NG-DI Underport Gas Firing System

Dual impulse firing delivers optimum flame control and low NO_X .



Burner capacity (Natural Gas) 933 - 10370 kW (3.2 - 35.4 MMBtu/hr)

Gas pressure at burner* 0.5 - 1.0 bar (7.25 - 14.5 PSIG)

Sealing ring air pressure 75 mm w.c. (3" w.c.)

GT/NG80-DI: 2-1/2" BSPT or NPT

Nozzle and sealing ring material 446 SST

*Actual gas pressure required dependant on furnace width and gas flow.

** Dependant on nozzle configuration.



Bulletin 1142C 08/10 Litho in USA