

ECLIPSE SIDE OF PORT GAS BURNERS WRASP-DI

Low NO_x side of port burner

Side of port firing allows a high degree of flame coverage using burners mounted at the port neck providing easy access for adjustment and maintenance. In general, side of port firing provides high thermal efficiency.

The Dual Impulse burner uses coaxial gas jets in which the center jet flow is adjustable by means of a special 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 30% without changing the nozzle. This allows for optimization of the flame. The arrangement also increases the flame luminosity thus providing greater heat transfer to the glass and lower NO_x.

A water cooled sealing ring eliminates cold induced air around the burner, increasing efficiency, minimizing NO_x as well as prolonging nozzle and burner block life. When the sealing ring is used, the WRASP-DI burner does not require any compressed air for cooling.

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

Specifications

Burner capacity (Natural Gas)	292-8200 kW (1-28 MM Btu/hr)
Gas pressure at burner	0.5 bar (7.25 psig) Minimum
	1.0 bar (14.5 psig) Typical
Burner length*	300mm to 500mm (11.8" to 19.7")
Gas Connection	2" BSP
Cooling water flow	5 l/min (1.3 gpm)
Cooling water pressure drop	0.07 bar (1 psig)
Cooling water temperature	60°C max (140°F max)

* 20mm increments (~.78")



Features

- Low NO_x
- Adjustable flame length
- High luminosity
- Low maintenance
- Predictable and reproducible performance
- Burner sealing provides high efficiency
- Simple, rapid and safe burner replacement

