

ECLIPSE WTPUG THROUGHPORT GAS BURNER

Water cooled throughport burners for regenerative glass furnaces

Eclipse WTPUG burners are compact, water-cooled burners designed to be inserted into the port neck of a regenerative glass furnace. The burner is fitted to the Eclipse Retraction Mechanism to withdraw the burner from the furnace when not firing. Use of the Retraction Mechanism ensures consistent combustion quality, which is essential to achieve high glass quality. The burner produces a conical flame.

Flexible Flow Profiles

The WTPUG is available in three water jacket diameters (2.5 inch, 3.5 inch and 4.25 inch) with a range of nozzle bore diameters to provide easy customization of flow velocities based on required flow rate. (refer to data sheet 1141-1).



Features

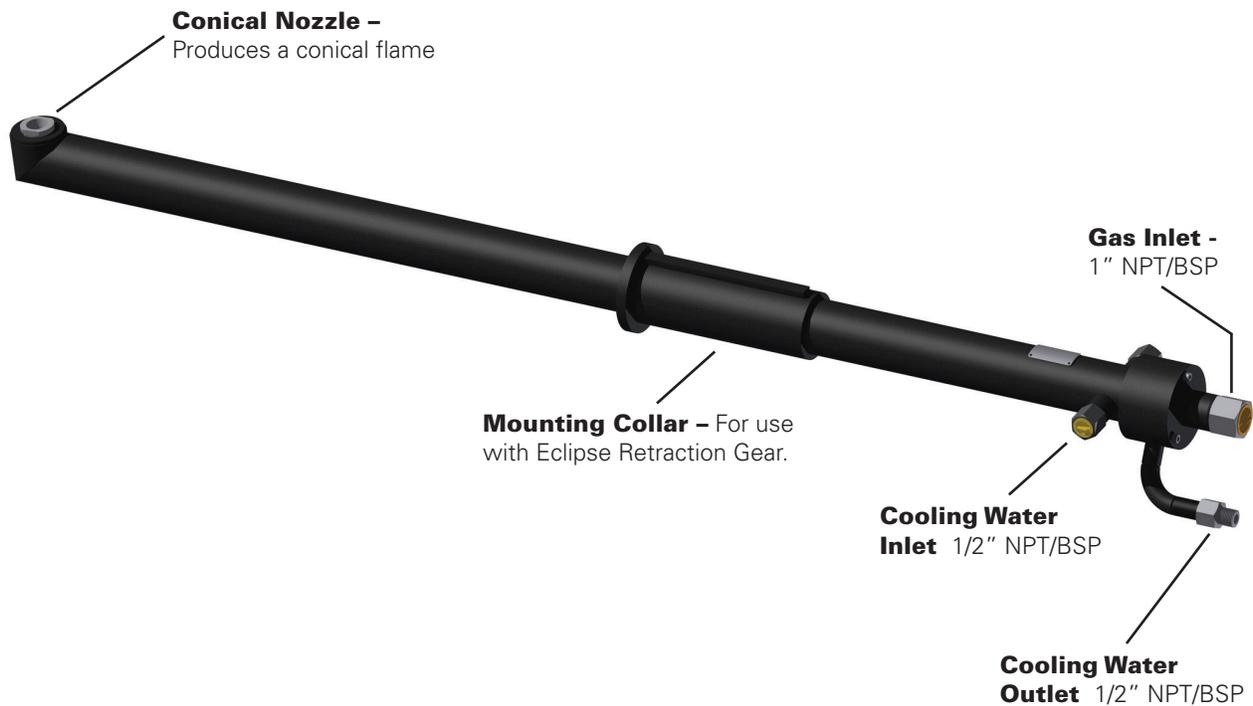
- Low maintenance.
- Fits existing retraction gear.
- Ideal for low flow ports.
- Compact design.
- Flexible flow profiles.

Port Design

The WTPUG can work in a variety of port designs. Contact your Eclipse representative to provide the design information for each specific application.

WTPUG Throughport Gas Burners

Setting new standards in versatility and flexibility for the glass industry.



Specifications

Burner capacity	100 Nm ³ /h (3,804 scfh) to 750 Nm ³ /h (28,530 scfh)
Gas pressure	250 mbar (3.6 psi) minimum
Burner length*	1400mm to 2000mm (55" to 79")
Burner diameter	63.5mm (2.5"), 88.9mm (3.5"), or 108mm (4.25")
Cooling water flow	45 l/min (11.9 gpm)
Cooling water pressure drop	0.65 bar (9.4 psi)
Cooling water outlet temperature	60°C max (140°F max)
Cooling water temperature rise	20°C max (36°F max)
Water condition	< 30 ppm Hardness < 1 ppm dissolved oxygen pH between 7.5 and 8.5

* 100mm increments (~ 4")