

ECLIPSE WTPU

THROUGHPORT OIL BURNER

Water cooled throughport burners for regenerative glass furnaces

Eclipse WTPU 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.

Port Design

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

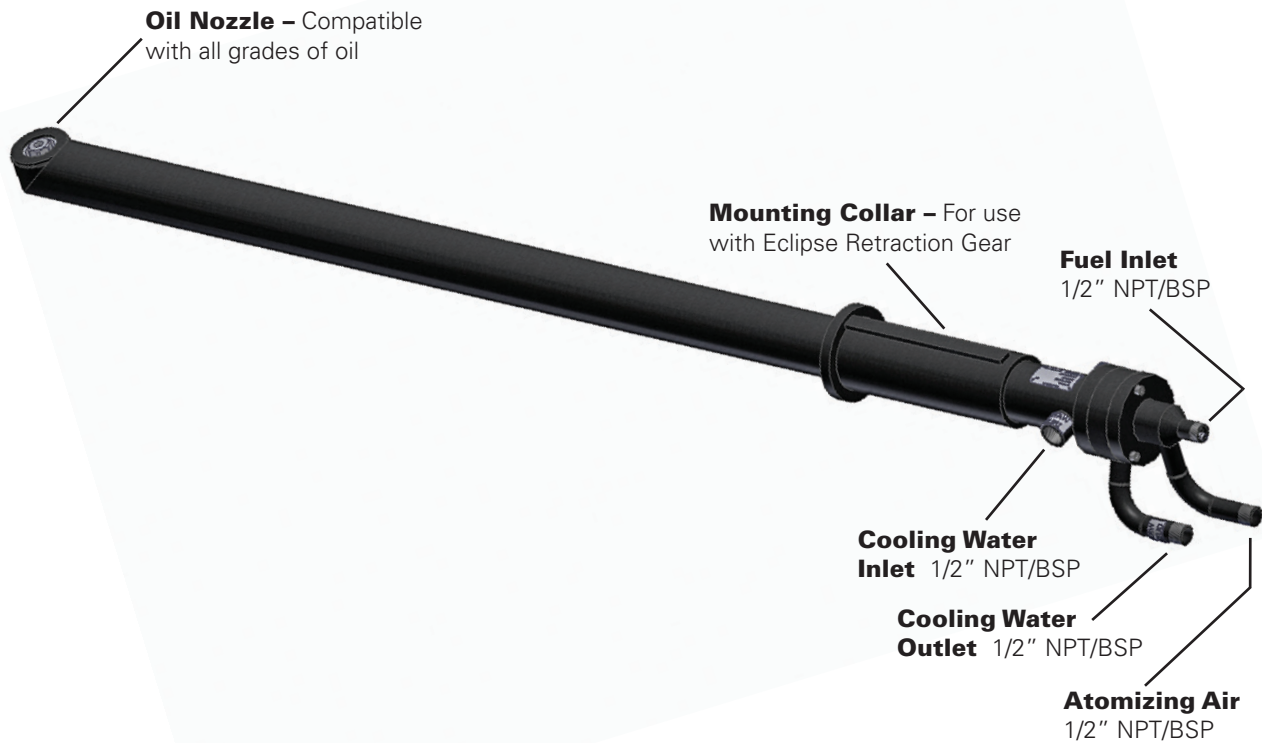


Benefits

- Reduced fuel consumption.
- Refractory cost savings.
- Reduced batch carryover.
- Reduced burner cleaning, giving more consistent performance.
- High glass quality.
- Low atomizing air consumption.
- Compact burner and water jacket design.
- Suitable for all grades of oil.
- Atomizing air, steam or gas.

WTPU Throughport Oil Burners

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



Specifications

Burner capacity	455 l/h (120 US Gal/h) – 680 l/h (180 US Gal/h)
Oil pressure	2.8 barg (40.6 psig)
Oil Viscosity.....	160 SSU (<30 cSt)
Atomizing Pressure	0.3 kg/kg oil (0.3 lb/lb oil)
Burner length*	1400mm to 2000mm (55" to 79")
Burner diameter	63.5mm (2.5")
Cooling water flow	45 l/min (11.9 gpm)
Cooling water pressure drop	0.85 bar (12.3 psi)
Cooling water outlet temperature	60°C max (140°F max)
Cooling water temperature rise	15°C max (27°F max)
Water condition.....	< 30 ppm Hardness < 1 ppm dissolved oxygen pH between 7.5 and 8.5 pH between 7.5 and 8.5

* 100mm increments (~ 4")