

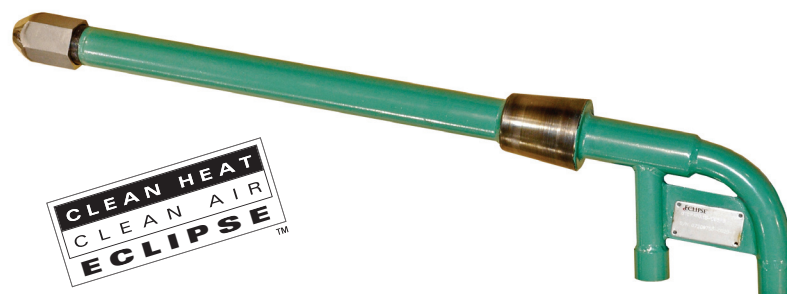
ECLIPSE UNDERPORT OIL BURNERS GT/CPA

Underport Oil Firing System

Underport firing allows a high degree of flame coverage of the melt using multiple burners mounted beneath the port sill, providing easy access for adjustment and maintenance. Underport firing gives both high thermal efficiency and high melt rates with a variety of liquid fuels. Using the burner block sealing system, with internal low pressure air cooling, and careful selection of burner system and port design, low levels of NOx are achievable.

Use of the Eclipse burner support bracket ensures accurate repeatable burner location, simple adjustment and quick removal of burner, all of which are essential for an efficient underport burner system.

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



Specifications	
Nozzle range	23-455 l/hr (6-120 US GPH)
Oil pressure	2.1 bar g (30.5 psig)
Oil viscosity	< 30 cSt
Atomising air pressure	2.8 bar g (40.6 psig)
Atomising air quantity	0.25 kg/kg oil (0.25 lb/lb oil)
Cooling air pressure	Refer to nozzle table
Cooling air quantity	Refer to nozzle table
Sealing ring air pressure	7.4 mbar w.c. (3" w.c.)
Sealing ring air quantity	15 Nm ³ (530 f ³ /hr)
Oil connection	1/2" BSPT
Air connection	1/2" BSPT
Sealing ring air connection	1" BSPT

- Low atomising air consumption
- Low maintenance
- No adjustment of nozzle components
- Predictable and reproducible performance
- Burner sealing gives high efficiency
- Low NOx capability
- Suitable for all grades of oil
- Simple, rapid and safe burner changing
- Single angular adjustment

Nozzle Model	Capacity (l/hr)	Atomising Air Flow Nm ³ /hr	Nozzle Cooling Air Pressure barg	Nozzle Cooling Air Flow Nm ³ /hr
C4/1/12	25	5	2.8	5
C4/2/12	45	9	2.8	9
C4/3/12	70	14	2.8	14
C4/4/12	90	17	2.8	17
C4/6/12	135	27	1.3	17
C4/8/12	180	27	1.3	17
C4/10/12	230	46	0.6	17
C4/12/12	275	55	0.5	17
C4/16/12	365	73	0.3	17
C4/20/12	455	91	0.21	17

