ECLIPSE RATIOMATIC BURNERS

Data 110-14

6/95

Model 2500 RM-Version 1.01

For Serial Numbers 95-5500 & Above

Specifications Input vs. Chamber Pressure 27,600,000 Btu/hr, @ -5.0" w.c. 8090 kW @-12.5 mbar 26,600,000 Btu/hr. @ -3.0" w.c. 7800 kW @ -7.5 mbar 25,500,000 Btu/hr. @ -1.0" w.c. 7474 kW @ -2.5 mbar 25,000,000 Btu/hr. @ 0.0" w.c. 7328 kW @ 0.0 mbar 24,400,000 Btu/hr. @ +1.0" w.c. 7152 kW @ +2.5 mbar 23,850,000 Btu/hr. @ +2.0" w.c. 6990 kW @ +5.0 mbar Input may be increased by 20% if sufficient secondary air is available to complete combustion. Minimum Input 250,000 Btu/hr. (73.3 kW) with neutral chamber. Will be slightly higher with negative chamber pressure. Turndown 100:1 with neutral chamber pressure. Configurations **Burner Configuration** Max. Chamber Temp. Burner with alloy tube 1500° F (538° C) Burner with refractory block 1800° F (982° C) Maximums shown are for average installations. Depending on conditions, higher temperatures can be obtained. Contact Eclipse for details. Fuel Standard nozzle burns natural gas, propane, propane/air mixes without changing internals. Contact Eclipse for other fuels. **Gas Inlet Pressure** Minimum: 38" w.c. (95 mbar) natural gas, .65 s.g. at the proportionator inlet Maximum: 2 psig (138 mbar) natural gas, .65 s.g. Pilot Gas Pressure Minimum: 6" w.c. (15 mbar) natural gas, .65 s.g. at the pilot cock inlet High Fire Flame Length 170" (4.32 m) Measured from the end of the firing tube, firing parallel to air flow with neutral chamber pressure. When firing perpendicular to air flow, flame length will be shorter. Contact your local Eclipse representative for details. **Piloting** Integral spark-ignited pilot; ignition plug included. Flame Monitoring By UV scanner only. Scanners & mounting kits are available from Eclipse. Control Motor Requirements 90° travel with full stroke timing of 15 seconds or longer. Ovens with high chamber drafts or backpressures may require less than a full 90° stroke. In these cases, use adjustable stroke motors or motors equipped with travellimiting auxiliary switches. **Emissions** Ratiomatics produce low NOx, CO and aldehydes. Emissions performance depends not only on the burner, but also factors such as chamber temperature, chamber design, and heat loading. For estimates of Ratiomatic performance in your application, call Eclipse.

CAUTION: It is dangerous to use any fuel burning equipment unless it is equipped with suitable flame sensing devices and automatic fuel shut-off valves. Eclipse can supply such equipment or information on alternate sources.

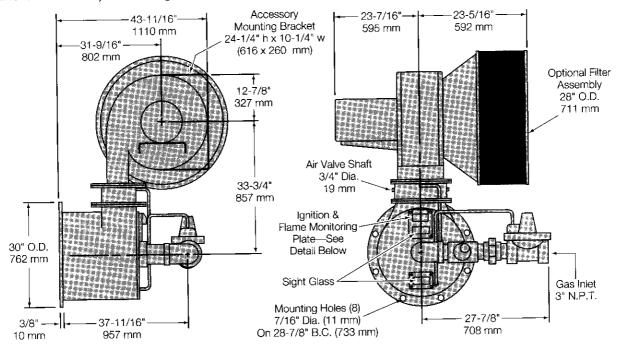
IRI or NFPA type valve trains, and UL recognized valve packages available.

Packaging Options

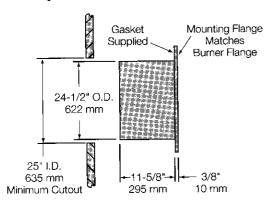


Dimensions, 2500 RM

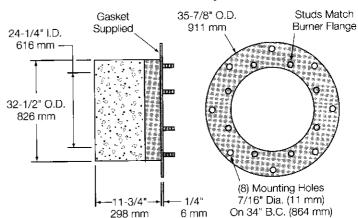
Dimensions are subject to change without notice. Contact Eclipse for certified prints prior to fabrication or installation.



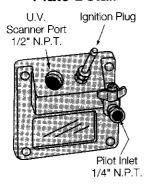
Alloy Tube Assembly—#110281



Block & Holder Assembly—#187297-61



Flame Monitoring Plate Detail



Component Information

| Item | Description | Part # |
|---|--------------------------------|---------------|
| 2500 RM Burner Assembly | | |
| w/Alloy Tube; Left Hand Blower (shown) | | 110415 |
| w/Alloy Tube; Right Hand Blower (motor opposite side) | | 110405 |
| w/Block & Holder; Left Hand Blower (shown) | | 110445 |
| w/Block & Holder; Right Hand Blower (motor opposite side) | | 110435 |
| Air Filter Assembly | Optional | 110287 |
| Replacement Filter Elements | _ | 15608 & 10411 |
| Spark Plug ¹ | For burner with tube or block. | 150000-12 |
| Blower Motor ¹ | 30 hp, 230/460/3/60 TEFC, 3600 | 11828 |
| Proportionator ¹ | Eclipse ES 369, 3" | 10316 |
| Pilot Cock ¹ | Eclipse lever handle, 1/4" | 12659 |
| Gas Adjusting Butterfly ¹ | Eclipse 112 BV, 3" | 500993 |
| | | |

Included with burner assembly.

Block & Holder and Alloy Tube are interchangeable in the field.





Offered By:
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