# **ECLIPSE RATIOMATIC BURNERS**

# Model 2500 RM - Version 1.01

For Serial Numbers 95-5500 & Above

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 B tu/hr. @ +1.0" w.c. 7152 kW @ +2.5 mbar		
	23,850,000 B tu/hr. @ +2.0" w.c. 6990 kW @ +5.0 mbar		
	Input may be increased by 20% if sufficient secondary air is available tomplete 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 ConfigurationMax. Chamber Temp.Burner with alloy tube1500° F (538° C)Burner with refractory block1800° 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 at the pilot cock inlet	Minimum: 6" w.c. (15 mbar) natural gas, .65 s.g.		
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 travel-limiting 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.

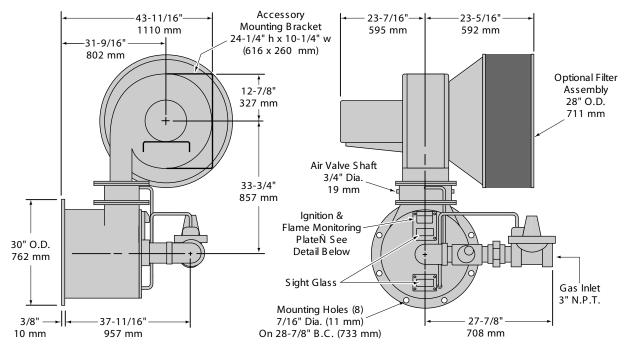
IRI or NFPA type valve trains, and UL recognized valve packages available.

**Packaging Options** 

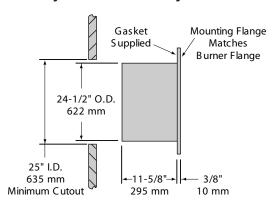


## Dimensions, 2500 RM

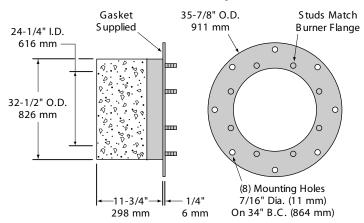
Dimensions are subject to change without notice. Contact Eclipse for certified prints prior to fabrication or installation.



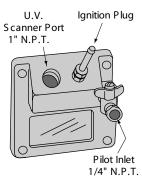
#### Alloy Tube Assembly - #110281



### 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		
S park Plug <sup>1</sup>	For burner with tube or block.	150000-12		
Blower Motor <sup>1</sup>	30 hp, 230/460/3/60 TEFC, 3600	11828		
Proportionator <sup>1</sup>	Eclipse ES 369, 3"	10316		
Pilot Cock <sup>1</sup>	Eclipse lever handle, 1/4"	12659		
Gas Adjusting Butterfly <sup>1</sup>	Eclipse 112 BV, 3"	500993		

<sup>&</sup>lt;sup>1</sup> Included with burner assembly.

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





Offered By:
Power Equipment Company
2011 Williamsburg Road
Richmond, Virginia 23231
Phone (804) 236-3800 Fax (804) 236-3882