**ECLIPSE RATIOMATIC BURNERS** 

Data 110-10 6/29/04

Model 1000 RM - Version 1.01

For Serial Numbers 95-5500 & Above

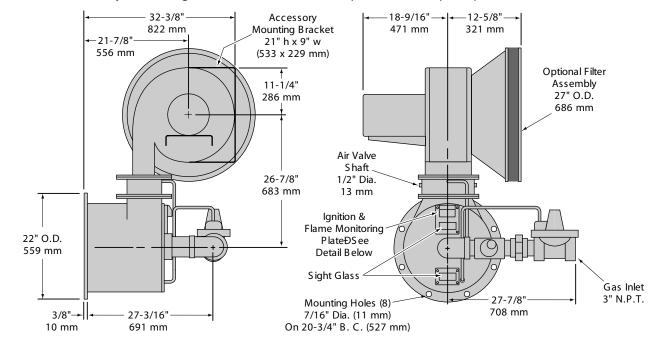
Input vs. Chamber Pressure	12,500,000 Btu/hr. @ -5.0" w.c	. 3664 kW @ -12.5 mbar	
input vs. Chamber Pressure	11,600,000 Btu/hr. @ -3.0" w.c		
	10,500,000 Btu/hr. @ -1.0" w.c		
	10,000,000 Btu/hr. @ 0.0" w.c		
	9,400,000 Btu/hr. @ +1.0" w.c		
	8,800,000 Btu/hr. @ +1.0 w.c		
	Input may be increased by 20% if sufficient secondary air is available complete combustion.		
Minimum Input	100,000 Btu/hr. (29.3 kW) with neutral chamber. Will be slightly higher with negative chamber pressure.		
Turndown	100:1 with neutral chamber pressure.		
Configurations	Burner Configuration	<u>Max. Chamber Temp.</u>	
	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: 14" w.c. (35 mba	r) natural gas, .65 s.g.	
at the proportionator inlet	Maximum: 2 psig (138 mba	r) natural gas, .65 s.g.	
Pilot Gas Pressure at the pilot cock inlet	Minimum: 6" w.c. (15 mba	r) natural gas, .65 s.g.	
High Fire Flame Length	124" (3.15 m)		
Figh Fire Flame Length	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 NO <sub>x</sub> , CO and aldehydes. Emissions performance depends not only on the burner, but also factors such as chamber tempera- ture, chamber design, and heat loading. For estimates of Ratiomatic perfor- mance 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.

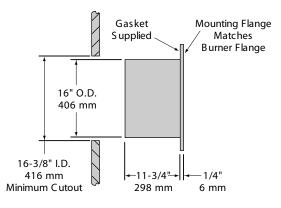


# **Dimensions, 1000 RM**

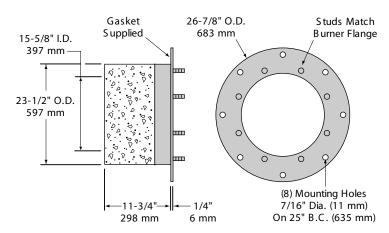
Dimensions are subject to change without notice. Contact Eclipse for certified prints prior to fabrication or installation.



### Alloy Tube Assembly – #110265



#### Block & Holder Assembly – #187296-61



## **Component Information**

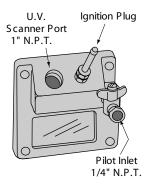
Item	Description	Part #
1000 RM Burner Assembly		
w/Alloy Tube; Left Hand Blower (shown)		110411
w/Alloy Tube; Right Hand Blower (motor opposite side)		110401
w/Block & Holder; Left Hand Blower (shown)		110441
w/Block & Holder; Right Hand Blower (motor opposite side)		110431
Air Filter Assembly	Optional	110280
Replacement Filter Element	-	15608
Spark Plug <sup>1</sup>	For burner with tube or block.	150000-5
Blower Motor <sup>1</sup>	7.5 hp, 230/460/3/60 TEFC, 3600 RPM	11215
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>1</sup> Included with burner assembly.

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

**ECLIPSE COMBUSTION** 

#### Flame Monitoring Plate Detail





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

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