# **ECLIPSE RATIOMATIC BURNERS**

#### Model 300 RM

Data 110-5 9/92

formerly H-95

### **Specifications**

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Input vs. Chamber Pressure	3,420,000 Btu/hr. @ -3.0" w.c. 1002 kV 3,150,000 Btu/hr. @ -1.0" w.c. 924 kV 3,000,000 Btu/hr. @ 0.0" w.c. 879 kV 2,850,000 Btu/hr. @ +1.0" w.c. 835 kV	V @-12.5 mbar V @ -7.5 mbar V @ -2.5 mbar V @ 0.0 mbar V @ +2.5 mbar V @ +5.0 mbar endary air is available to	
Minimum Input	65,000 Btu/hr. (19.1 kW) With neutral chamber. Will be slightly higher with negative chamber pressure		
Turndown	46:1 with neutral chamber pressure.		
Configurations	Burner Configuration Cast head & alloy tube Alloy head & alloy tube Alloy head & refractory block Maximums shown are for average installations. Dephigher temperatures can be obtained. Contact Eclip	C) 110195-1 C) 110230-1 pending on conditions,	
Fuel	Standard nozzle burns natural gas, propane, propane/air mixes without changing internals. Contact Eclipse for other fuels.		
Gas Inlet Pressure at proportionator inlet	Minimum: 12" w.c. (30 mbar) natural gas, .65 Maximum: 2 psig (138 mbar) natural gas, .65		
Pilot Gas Pressure at pilot cock inlet	Minimum: 6" w.c. (15 mbar) natural gas, .65	i s.g.	
High Fire Flame Length	54" (1.37 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	Flame rod included; UV scanners & mounting kits available.		
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. See Bulletin 720.		
Emissions	Ratiomatics produce low $\mathrm{NO}_{\mathrm{x}}$ , 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.		
Packaging Options	Available with FM, IRI, or NFPA type valve trains. UL recognized and UL listed packages are also available.		

**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.

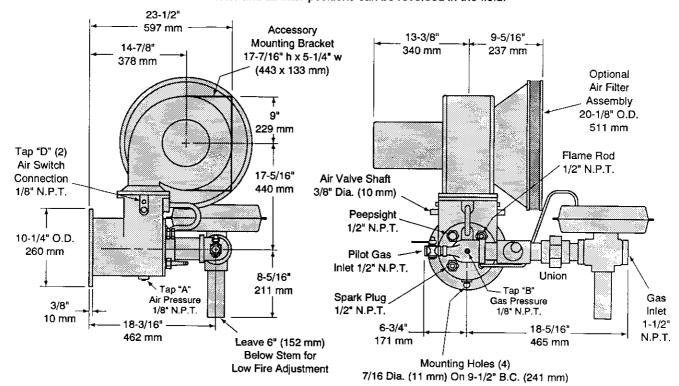


#### **ECLIPSE COMBUSTION**

# Dimensions, 300 RM

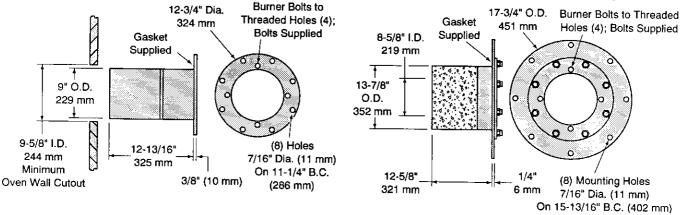
Dimensions are subject to change without notice. Contact Eclipse for certified prints prior to fabrication or installation.

Blower motor and air filter positions can be reversed in the field.



#### Alloy Tube Assembly

## **Block & Holder Assembly**



# Component Information

Item	Description	Part #
300 RM Burner Assembly	With Standard head and Alloy Tube Assembly	110195
	With Alloy Head and Alloy Tube Assembly	110195-1
	With Alloy Head and Block & Holder Assembly	110230-1
Air Filter Assembly	Optional	110282
Replacement Filter Element		11128
Spark Plug & Flame Rod¹	For burner with tube or block.	13581
Alloy Tube Assembly <sup>2</sup>	With two gaskets	110246
Block & Holder Assembly <sup>2</sup>		187150-61
Blower Motor <sup>1</sup>	1-1/2 hp, 230/460/3/60 TEFC, 3600 RPM	17229
Proportionator¹	Eclipse ABP, 1-1/2"	500626
Pilot Cock <sup>1</sup>	Eclipse lever handle, 1/2"	10627
Gas Adjusting Butterfly¹	Eclipse 106 BV, 1-1/2"	500990
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<sup>1</sup>Included with burner assembly

<sup>&</sup>lt;sup>2</sup>Not interchangeable in the field. Call Eclipse to convert from tube to block or vice versa.



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