ECLIPSE RATIOMATIC BURNERS

Model 400 RM

Data 110-6 9/92 formerly H-95

Specifications

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Input vs. Chamber Pressure	4,670,000 Btu/hr. @ -5.0" w.c. 4,590,000 Btu/hr. @ -3.0" w.c. 4,200,000 Btu/hr. @ -1.0" w.c. 4,000,000 Btu/hr. @ 0.0" w.c. 3,800,000 Btu/hr. @ +1.0" w.c. 3,580,000 Btu/hr. @ +2.0" w.c. Input may be increased by 20%	1369 kW @-12.5 mbar 1345 kW @ -7.5 mbar 1231 kW @ -2.5 mbar 1172 kW @ 0.0 mbar 1112 kW @ +2.5 mbar 1049 kW @ +5.0 mbar if sufficient secondary air is available t o	
	complete combustion.		
Minimum Input	65,000 Btu/hr. (19.1 kW) With neutral chamber. Will be slightly higher with negative chamber pressure		
Turndown	73:1 with neutral chamber pressure.		
Configurations	Burner Configuration Cast head & alloy tube Alloy head & alloy tube Alloy head & refractory block Maximums shown are for average higher temperatures can be obtain	Max. Chamber Temp. Assembly 1000° F (538° C) 110198 1500° F (816° C) 110198-1 1800° F (982° C) 110232-1 e installations. Depending on conditions, need. 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 at proportionator inlet	Minimum: 17" w.c. (42 mbar) Maximum: 2 psig (138 mbar)		
Pilot Gas Pressure at pilot cock inlet	Minimum: 6" w.c. (15 mbar)	natural gas, .65 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 NO _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.

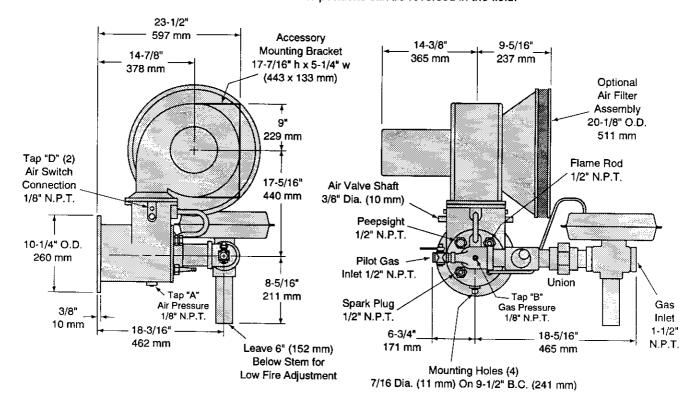


ECLIPSE COMBUSTION

Dimensions, 400 RM

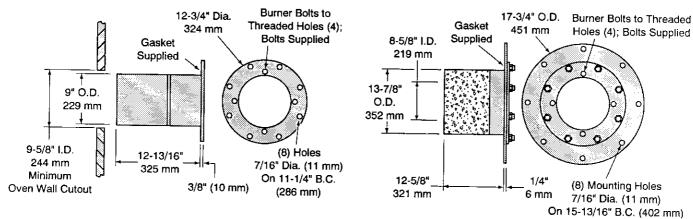
Dimensions are subject to change without notice. Contact Eclipse for certified prints prior to fabrication or installation.

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



Alloy Tube Assembly

Block & Holder Assembly



Component Information

Item	Description	Part #
400 RM Burner Assembly	With Standard Head and Alloy Tube Assembly	110198
	With Alloy Head and Alloy Tube Assembly	110198-1
	With Alloy Head and Block & Holder Assembly	110232-1
Air Filter Assembly	Optional	110282
Replacement Filter Element		11128
Spark Plug & Flame Rod¹	For burner with tube or block.	
Alloy Tube Assembly ²		13581
Block & Holder Assembly ²	With two gaskets	110247
		187150-61
Blower Motor¹	2 hp, 230/460/3/60 TEFC, 3600 RPM	17032
Proportionator¹	Eclipse ABP, 1-1/2"	
Pilot Cock ¹		500626
	Eclipse lever handle, 1/2"	10627
Gas Adjusting Butterfly¹	Eclipse 106 BV, 1-1/2"	500990
10 1 1 1 144 4		

Included with burner assembly.

²Not interchangeable in the field. Call Eclipse to convert from tube to block or vice versa.



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