Data 110-5

6/95

Model 300 RM-Version 1.01

For Serial Numbers 95-5500 & Above

Specifications				
Input vs. Chamber Pressure	3,670,000 Btu/hr. @ -5.0" w.c. 3,420,000 Btu/hr. @ -3.0" w.c. 3,150,000 Btu/hr. @ -1.0" w.c. 3,000,000 Btu/hr. @ 0.0" w.c. 2,850,000 Btu/hr. @ +1.0" w.c. 2,680,000 Btu/hr. @ +2.0" w.c. Input may be increased by 20 complete combustion.	1002 kW @ -7.5 924 kW @ -2.5 879 kW @ 0.0 835 kW @ +2.5 786 kW @ +5.0	mbar mbar mbar mbar mbar	
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 & refractory block Maximums shown are for average	Max. Chamber Temp. 1500° F (816° C) 1800° F (982° C) ge installations. Depending on a	Assy. No. 110195 110230-1 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 at proportionator inlet	Minimum: 12" w.c. (30 mba) Maximum: 2 psig (138 mba)		, Ĕ <u> </u>	
Pilot Gas Pressure at pilot cock inlet	Minimum: 6" w.c. (15 mba	ar) 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 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.			
Packaging Options	IRI or NFPA type valve trains, and UL recognized valve packages available.			

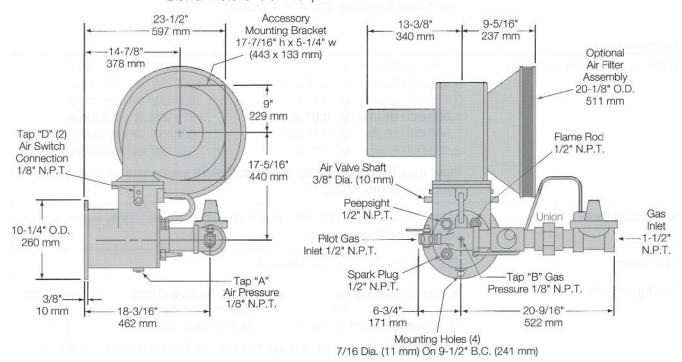
CAUTION: It is dangerous to use any fuel burning equipment unless it is equipped with suitable flame sensing devices and automatic fuel shut-off valves. Eclipse can supply such equipment or information on alternate sources.



Dimensions, 300 RM

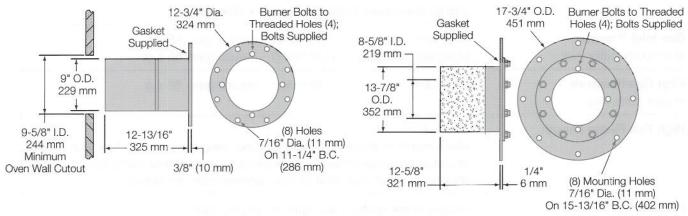
Dimensions are subject to change without notice. Contact Eclipse for certified prints prior to fabrication or installation.

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 With Alloy Head and Block & Holder Assembly	110195 110230-1
Air Filter Assembly	Optional	110282
Replacement Filter Element		11128
Spark Plug & Flame Rod ¹	For burner with tube or block.	13581
Alloy Tube Assembly ²	With two gaskets	110246
Block & Holder Assembly ²	Design of the second of the first condition	187150-61
Blower Motor ¹	1-1/2 hp, 230/460/3/60 TEFC, 3600 RPM	17229
Proportionator ¹	Eclipse ES 367, 1-1/2"	10314
Pilot Cock ¹	Eclipse lever handle, 1/2"	10627
Gas Adjusting Butterfly ¹	Eclipse 106 BV, 1-1/2"	500990

¹Included with burner assembly

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





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