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# Model 100 RM-Version 1.01

For Serial Numbers 95-5500 & Above

**Specifications** 

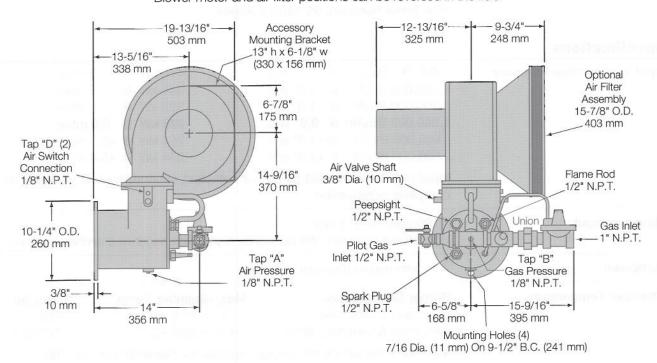
1,400,000 Btu/hr. @ -5.0" w.c. 410 kW @-12.5 mbar 1,250,000 Btu/hr. @ -3.0" w.c. 366 kW @ -7.5 mbar 1,100,000 Btu/hr. @ -1.0" w.c. 322 kW @ -2.5 mbar 1,000,000 Btu/hr. @ 0.0" w.c. 293 kW @ 0.0 mbar 900,000 Btu/hr. @ +1.0" w.c. 264 kW @ +2.5 mbar 800,000 Btu/hr. @ +2.0" w.c. 234 kW @ +5.0 mbar Input may be increased by 20% if sufficient secondary air is available to
complete combustion.
25,000 Btu/hr. (7.3 kW) With neutral chamber. Will be slightly higher with negative chamber pressure.
40:1 with neutral chamber pressure.
Burner ConfigurationMax. Chamber Temp.Assy. No.Cast head & alloy tube1500° F (816° C)110213Alloy head & refractory block1800° F (982° C)110163-1
Maximums shown are for average installations. Depending on conditions, higher temperatures can be obtained. Contact Eclipse for details.
Standard nozzle burns natural gas, propane, propane/air mixes without changing internals. Contact Eclipse for other fuels.
Minimum: 8" w.c. (20 mbar) natural gas, .65 s.g.  Maximum: 1 psig (69 mbar) natural gas, .65 s.g.
Minimum: 6" w.c. (15 mbar) natural gas, .65 s.g.
30" (0.76 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.
Integral spark-ignited pilot; ignition plug included.
Flame rod included; UV scanners & mounting kits available.
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. For these cases, use adjustable stroke motors or motors equipped with travel-limiting auxiliary switches. See Bulletin 720.
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.
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.

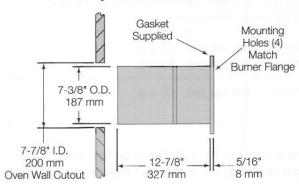


# Dimensions, 100 RM

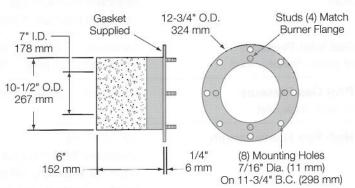
Dimensions are subject to change without notice. Contact Eclipse for certified prints prior to fabrication or installation. Blower motor and air filter positions can be reversed in the field.



## Alloy Tube Assembly



### Block & Holder Assembly



# Component Information

Description	Part #
With Standard Head and Alloy Tube Assembly With Alloy Head and Refractory Block Assembly	110213 110163-1
Optional	110298
Chiral addinates to their services	11132
For burner with tube. For burner with block.	13581 13837
With two gaskets	110184
UNATED A PROPERTY OF THE STATE	187327-61
1/2 hp, 230/460/3/60 TEFC, 3600 RPM	13101
Eclipse ES 366, 1"	15939
Eclipse lever handle, 1/2"	10627
Eclipse 104 BV, 1"	500988
	With Standard Head and Alloy Tube Assembly With Alloy Head and Refractory Block Assembly Optional — For burner with tube. For burner with block. With two gaskets — 1/2 hp, 230/460/3/60 TEFC, 3600 RPM Eclipse ES 366, 1" Eclipse lever handle, 1/2"

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

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





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