

Eclipse RatioMatic

Burners

Model 750 RM

For Serial Numbers 95-5500 & Above

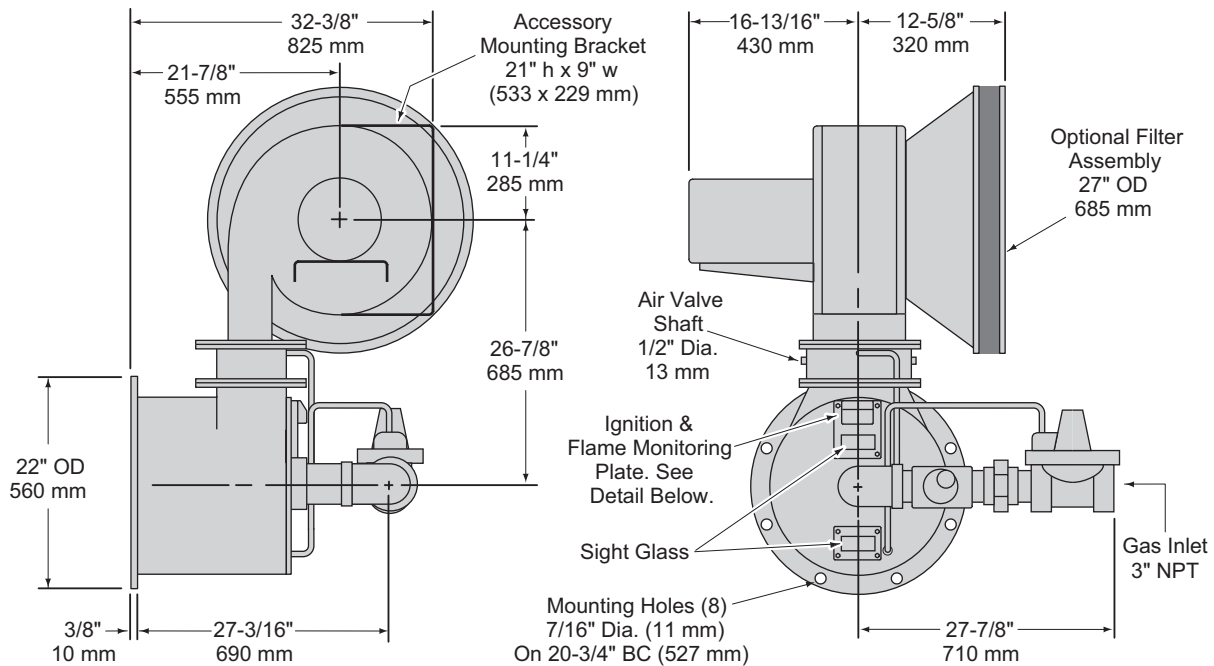
Version 1

Parameter	Specification	
	BTU/hr (kW)	"w.c. (mbar)
Input vs. Chamber Pressure Input may be increased by 20% if sufficient secondary air is available to complete combustion.	9,300,000 (2725)	-5.0 (-12,5)
	8,600,000 (2520)	-3.0 (-7,5)
	7,900,000 (2315)	-1.0 (-2,5)
	7,500,000 (2200)	0 (0,0)
	7,100,000 (2080)	1.0 (2,5)
	6,700,000 (1965)	2.0 (5,0)
Minimum Input, BTU/hr (kW)	75,000 (22) with neutral chamber. Will be slightly higher with negative chamber pressure.	
Turndown	100:1 with neutral chamber pressure	
Configurations	Burner Configuration	Maximum Chamber Temperature
	Burner with alloy tube	1500°F (815°C)
	Burner with refractory block	1800°F (980°C)
	Maximums shown are for average installations. Depending on conditions, higher temperatures can be obtained. Contact Eclipse for details.	
Fuel	Standard nozzles burn natural gas, propane, propane/air mixes without changing internals. Contact Eclipse for other fuels.	
Gas Inlet Pressure at the Proportionator Inlet	Minimum: 12" w.c. (30 mbar) natural gas, 0.65 s.g. Maximum: 2 psig (138 mbar) natural gas, 0.65 s.g.	
Pilot Gas Pressure at the Pilot Cock Inlet	Minimum: 6" w.c. (15 mbar) natural gas, 0.65 s.g.	
High Fire Flame Length	96" (2.45 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 Eclipse 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 pack pressures 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 _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, contact Eclipse.	
Package Options	IRI or NFPA type valve trains, and UL recognized valve packages available.	

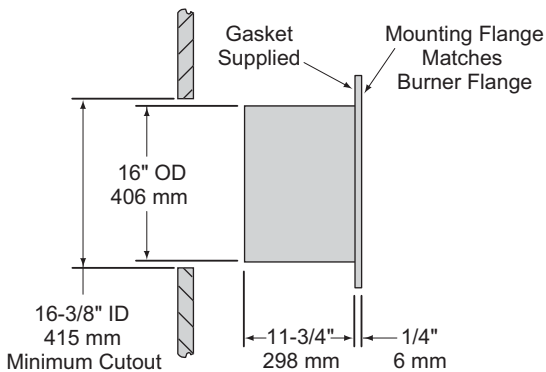
CAUTION: It is dangerous to use any fuel burning equipment unless it is equipped with suitable flame sensing devices and automatic fuel shut-off valves. Eclipse can supply such equipment or information on alternate sources.

Dimensions in inches (mm)

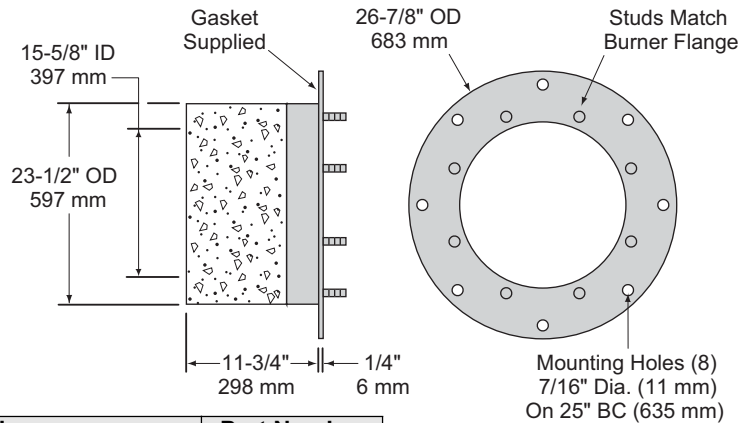
Dimensions are subject to change without notice. Contact Eclipse for certified prints prior to fabrication or installation.



Alloy Tube Assembly – #110265

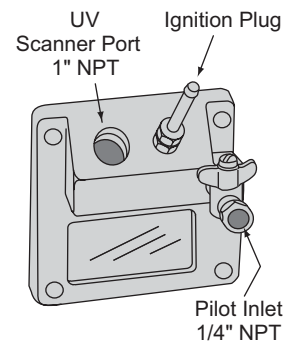


Block & Holder Assembly – #187296-61



Item	Description	Part Number
750RM Burner Assembly	w/alloy tube; left hand blower (shown)	110410
	w/alloy tube; right hand blower (motor opposite side)	110400
	w/block & holder; left hand blower (shown)	110440
	w/block & holder; right hand blower (motor opposite side)	110430
Air Filter Assembly	Optional	110280
Replacement Filter Element	-	15608
Spark Plug ¹	For burner with tube or block	150000-5
Blower Motor ¹	5 Hp, 230/460/3/60 TEFC, 3600 RPM	11210
Proportionator ¹	Eclipse ES 369, 3"	10316
Pilot Cock ¹	Eclipse lever handle, 1/4"	12659
Gas Adjusting Butterfly ¹	Eclipse 112 BV, 3"	500993
¹ Included with burner assembly. Block & Holder and Alloy Tubes are interchangeable in the field.		

Flame Monitoring Plate Detail





Offered By:

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

www.peconet.com