ECLIPSE RATIOMATIC BURNERS

Model 2000 RM

Data 110-13
5/93
formerly H-95

Specifications

Input vs. Chamber Pressure	23,200,000 Btu/hr. @ -5.0" w.c. — 6800 kW @-12.5 mbar 22,000,000 Btu/hr. @ -3.0" w.c. — 6448 kW @ -7.5 mbar 20,700,000 Btu/hr. @ -1.0" w.c. — 6067 kW @ -2.5 mbar **20,000,000 Btu/hr. @ 0.0" w.c. — 5862 kW @ 0.0 mbar** 19,300,000 Btu/hr. @ +1.0" w.c. — 5657 kW @ +2.5 mbar 18,600,000 Btu/hr. @ +2.0" w.c. — 5452 kW @ +5.0 mbar **Input may be increased by 20% if sufficient secondary air is available to complete combustion.**
Minimum Input	200,000 Btu/hr. (58.6 kW) With neutral chamber. Will be slightly higher with negative chamber pressure.
Turndown	100:1 with neutral chamber pressure.
Configurations	**Burner Configuration** — **Max. Chamber Temp.** Burner with alloy tube — 1500° F (538° C) Burner with refractory block — 1800° F (982° C) Maximums shown are for average installations. Depending on 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 the proportionator inlet	Minimum: 30" w.c. (75 mbar) natural gas, .65 s.g. Maximum: 2 psig (138 mbar) natural gas, .65 s.g.
Pilot Gas Pressure at the pilot cock inlet	Minimum: 6" w.c. (15 mbar) natural gas, .65 s.g.
High Fire Flame Length	150" (3.81 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	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 backpressures 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, call Eclipse.
Packaging Options	Available with FM, IRI, or NFPA type valve trains. UL recognized and UL listed packages are also available.

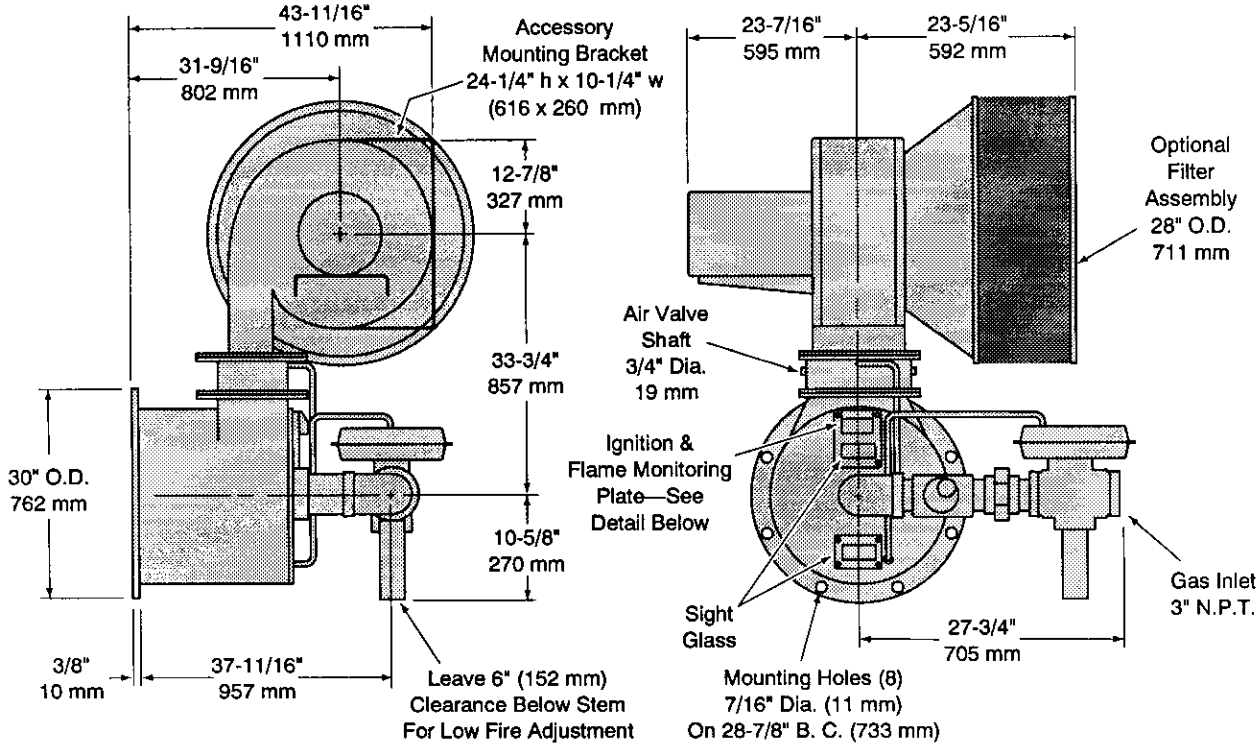
CAUTION: It is dangerous to use any fuel burning equipment unless it is equipped with suitable flame sensing devices and automatic fuel shut-off valves. Eclipse can supply such equipment or information on alternate sources.

ECLIPSE COMBUSTION
ROCKFORD, ILLINOIS 61103 (815) 877-3031
CANADA: ECLIPSE THERMAL SYSTEMS
HOLLAND: FLAMECO-ECLIPSE
ENGLAND: ECLIPSE THERMAL SYSTEMS

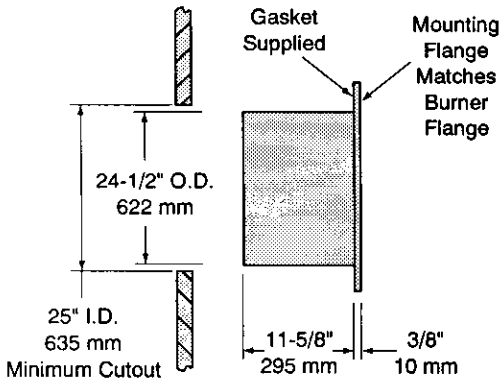
Litho In U.S.A.

Dimensions, 2000 RM

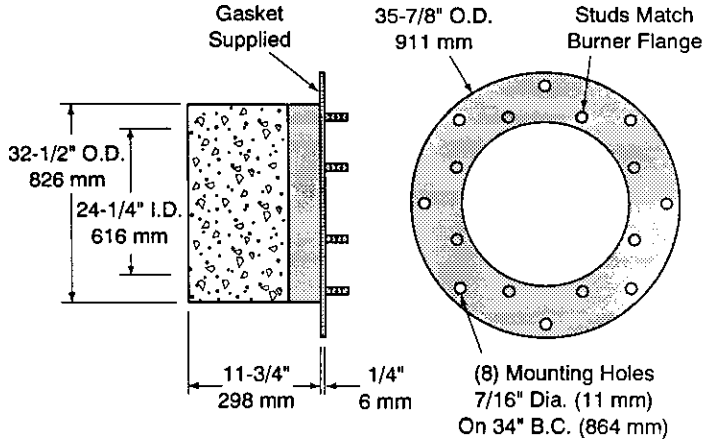
Dimensions are subject to change without notice. Contact Eclipse for certified prints prior to fabrication or installation.



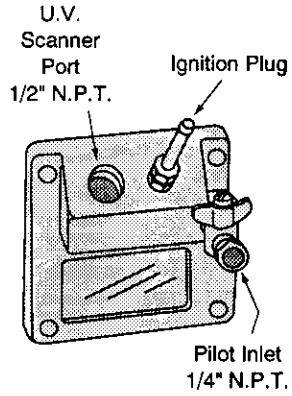
Alloy Tube Assembly—#110281



Block & Holder Assembly—#187297-61



Flame Monitoring Plate Detail



Component Information

Item		Part #
2000 RM Burner Assembly		
w/Alloy Tube; Left Hand Blower (shown)		110414
w/Alloy Tube; Right Hand Blower (motor opposite side)		110404
w/Block & Holder; Left Hand Blower (shown)		110444
w/Block & Holder; Right Hand Blower (motor opposite side)		110434
Air Filter Assembly	Optional	110287
Replacement Filter Elements	---	15608 & 10411
Spark Plug[1]	For burner with tube or block.	150000-12
Blower Motor[1]	20 hp, 230/460/3/60 TEFC, 3600	19894
Proportionator[1]	Eclipse ABP, 3"	500628
Pilot Cock[1]	Eclipse lever handle, 1/4"	12659
Gas Adjusting Butterfly[1]	Eclipse 112 BV, 3"	500993

[1] Included with burner assembly.

Bock & Holder and Alloy Tube are interchangeable in the field.

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

www.peconet.com