


Eclipse Tube Firing

Burner

Model TFB200

Version 2

Parameter		Burner Input 1000's Btu/h (kW)						
		800 (234.3)	1000 (292.8)	1200 (351.4)	1400 (409.9)	1600 (468.5)	1800 (527.1)	2000 (585.6)
Low Firing Rate, Btu/h (kW) <i>At 100% excess air</i>	Without UV Scanner	25 (7.3)	25 (7.3)	25 (7.3)	25 (7.3)	25 (7.3)	25 (7.3)	25 (7.3)
	With UV Scanner	50 (14.6)	50 (14.6)	50 (14.6)	50 (14.6)	50 (14.6)	50 (14.6)	50 (14.6)
Differential Air Pressure, "w.c. (mbar) <i>Between Tap A and B (see pg 3-4)</i>		5.6 (14.0)	8.8 (21.9)	7.1 (17.7)	6.3 (15.7)	8.3 (20.7)	6.1 (15.2)	7.3 (18.2)
Recommended Air Orifice Plate in (mm)		2.13 (54.1)	2.13 (54.1)	2.36 (60.0)	2.56 (65.0)	2.56 (65.0)	2.76 (70.1)	2.76 (70.1)
Air Flow, SCFH (Nm³/h) <i>At 15% excess air</i>		9200 (260.5)	11500 (325.6)	13800 (390.8)	16100 (455.9)	18400 (521.0)	20700 (586.2)	23000 (651.3)
Differential Gas Pressure, "w.c. (mbar) <i>Between Tap C and D (see pg 3-4)</i>	Natural Gas	3.8 (9.5)	5.9 (14.7)	4.1 (10.2)	3.6 (9.0)	4.8 (12.0)	3.3 (8.2)	4.1 (10.2)
	Propane	3.6 (9.0)	5.6 (14.0)	3.4 (8.5)	2.9 (7.2)	3.7 (9.2)	3.8 (9.5)	4.6 (11.5)
	Butane	2.8 (7.0)	4.4 (11.0)	2.7 (6.7)	2.3 (5.7)	3.0 (7.5)	3.0 (7.5)	3.7 (9.2)
Recommended Gas Orifice Plate, in (mm)	Natural Gas	0.63 (16.0)	0.63 (16.0)	0.75 (19.0)	0.83 (21.1)	0.83 (21.1)	0.95 (24.1)	0.95 (24.1)
	Propane	0.50 (12.7)	0.50 (12.7)	0.63 (16.0)	0.71 (18.0)	0.71 (18.0)	0.75 (19.0)	0.75 (19.0)
	Butane	0.50 (12.7)	0.50 (12.7)	0.63 (16.0)	0.71 (18.0)	0.71 (18.0)	0.75 (19.0)	0.75 (19.0)
Piping		NPT or BSP burner piping is available						
Flame Detection		UV Scanner only*						
Ignition		Direct spark ignition (6 kVAC)						
Fuels <i>For any other mixed gas, contact Eclipse.</i>		Natural gas, propane, butane						
Approvals		 АИЗ0						

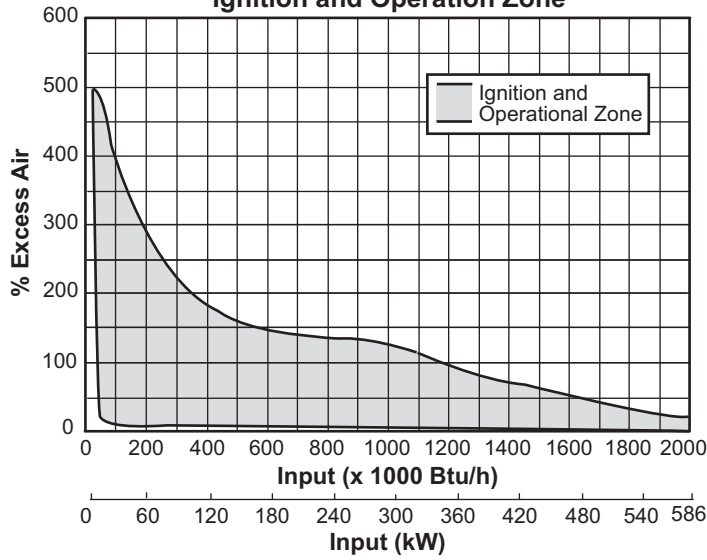
*When using the UV scanner, it is necessary to use mounting adapter part number 10033 to ensure that the UV scanner will not detect the ignition spark.

NOTE: Pressures shown are for system sizing only. The supply pressure at the burner inlets must be at least 3" w.c. higher than the differential pressure shown in the tables.

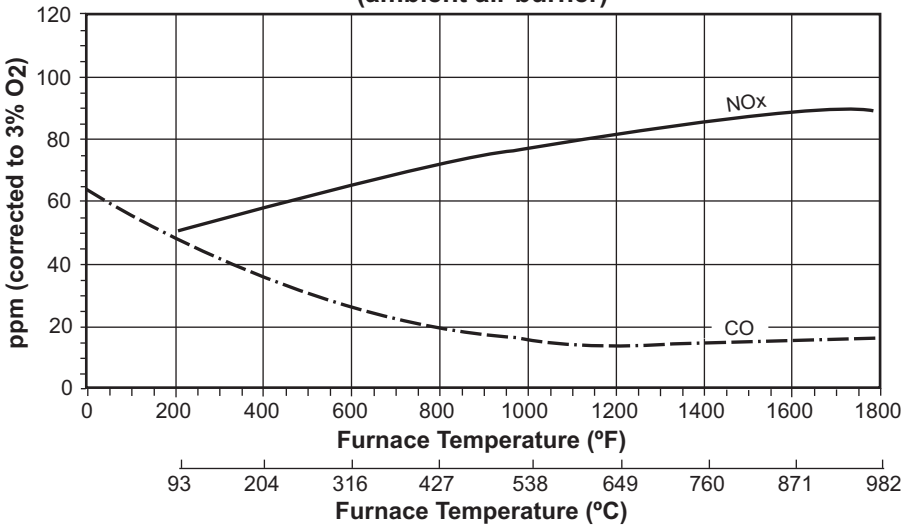
- The low firing rate represents the capability of the burner. Achievement of this rate will be affected by the control method and ratio regulator used in the system design.
- All inputs based on gross calorific values.
- Eclipse reserves the right to change the construction and/or configuration of our products at any time without being obliged to adjust earlier supplies accordingly.
- Plumbing of air and gas will affect accuracy of orifice readings. All information is based on generally acceptable air and gas piping practices.

Performance Graphs

Ignition and Operation Zone



NO_x and CO Emissions (ambient air burner)

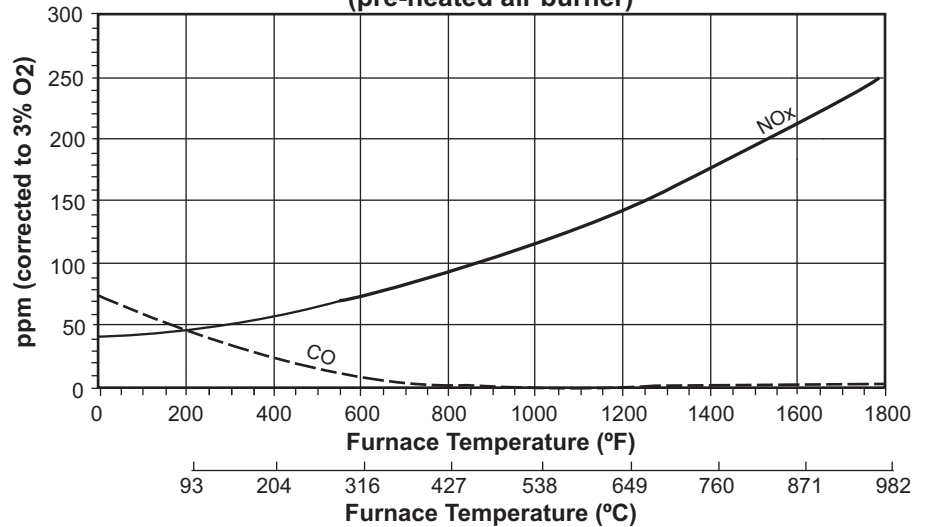


Emissions from the burner are influenced by:

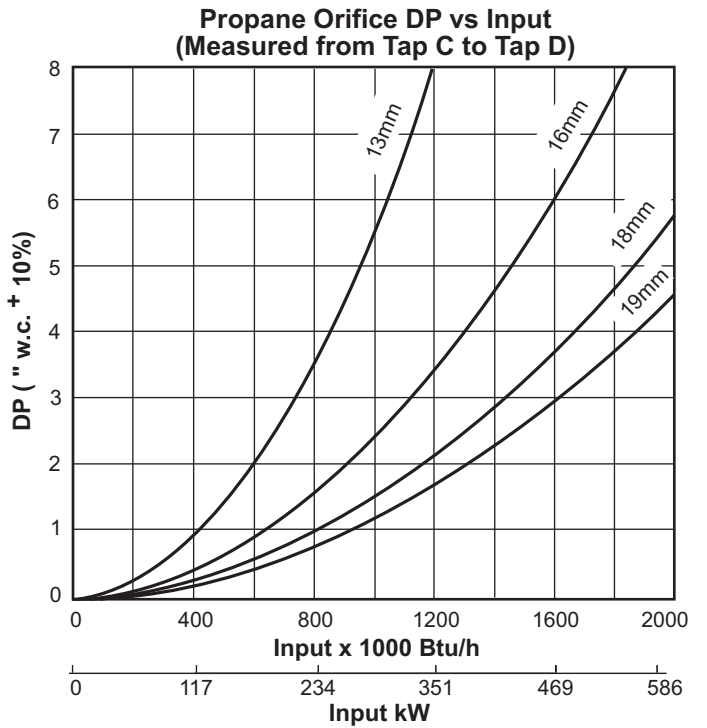
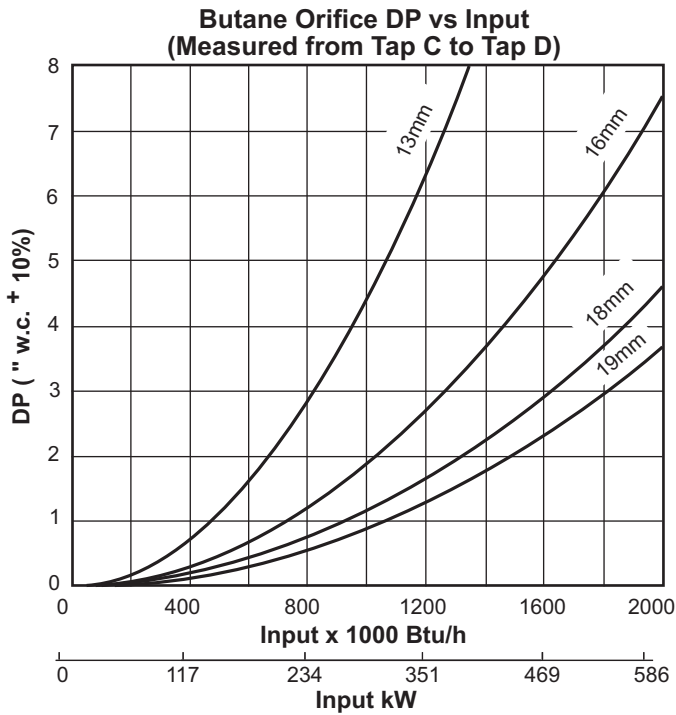
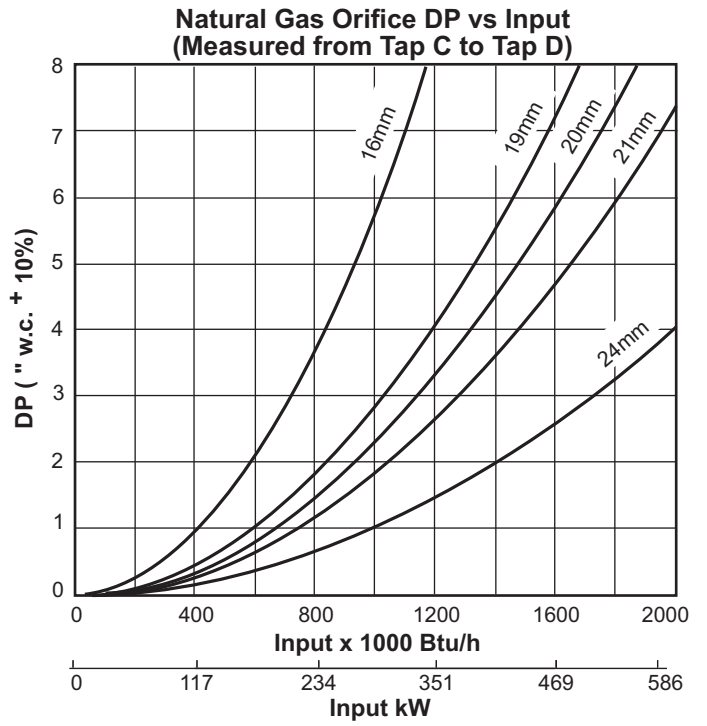
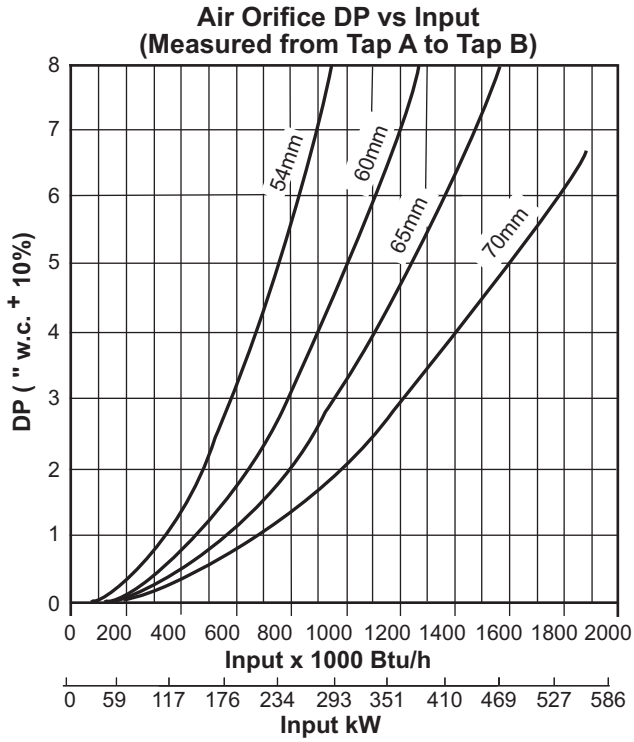
- fuel type
- combustion air temperature
- chamber conditions
- percent of excess air

For estimates of other emissions, contact Eclipse Inc.

NO_x and CO Emissions (pre-heated air burner)



Performance Graphs



Dimensions & Specifications

Dimensions in inches (mm)

