Eclipse ImmersoJet Burners

Model IJ-2

Data sheet Edition 09.18

Version 3

Parameter	Blower Size		
Blower Type	Low Pressure Packaged Blower	High Pressure Packaged Blower	Remote Blower
Maximum Input, Btu/h (kW)	190,000 (55.6)	235,000 (68.9)	370,000 (108.4) Butane & Propane 340,000 (100) Natural Gas
Minimum Input, Btu/h (kW)	25,000 (7.3)	25,000 (7.3)	25,000 (7.3)
Air Inlet Pressure at Maximum Input, "w.c. (mbar) *Air pressure at burner inlet (Tap A)*	7.1 (17.7)	10.3 (25.7)	26.5 (65.9)
Blower Motor, Hp (kW)	0.25 (0.2)	0.33 (0.3)	As Specified
Main Gas Pressure Supplied to Regulator, "w.c. (mbar)	12.0 - 27.7 (29.9 - 68.9)	15.0 - 27.7 (37.4 - 68.9)	32.0 - 55.0 (79.7 - 137.0)
Tube Back Pressure, "w.c. (mbar)	0	0	3.7 (9.2)
Weight, lbs (kg)	70 (31.8)	75 (34.0)	45 (20.0)
CO Emissions, ppm	<100	<100	<100
Piping	NPT or BSP		
Flame Detection	Flamerod or UV Scanner		
Fuels[1, 2] *For any other mixed gas, contact Eclipse, Inc.*	Natural Gas, Propane, Butane		
Approvals	EAC		

[1] Different fuels require different nozzles and orifices.

[2] See Design Guide 330 for more information about typical fuel composition and properties.

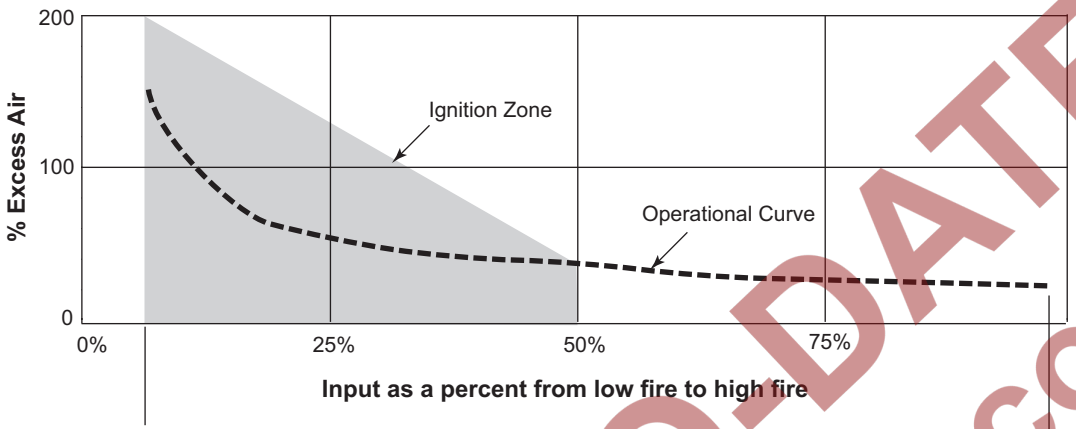
- All information is based on laboratory testing with a tube effective length of 29.6 feet (9.0 m). Different tube sizes and conditions may affect the data.
- All information is based on standard tube design. Changes in the tube will alter performance and pressures.
- All inputs based upon gross calorific values (HHV).
- 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.
- Packaged blower performance data based on 60 Hz.

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Performance Graphs

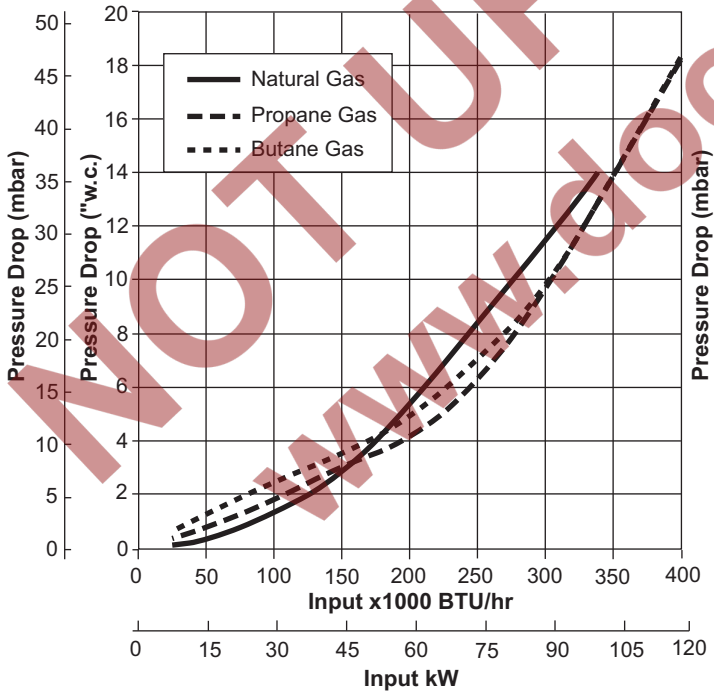
Typical Operational Curve & Ignition Zone (Natural Gas, Propane, & Butane)



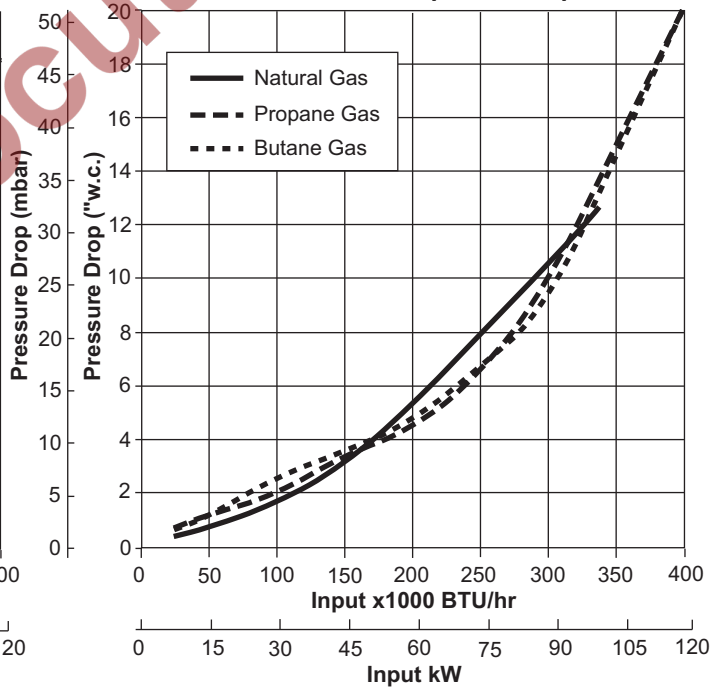
Low Fire:
25,000 BTU/hr (8,2 kW)
(Regardless of Blower)

High Fire:
190,000 BTU/hr (55,7 kW) (6" w.c. Blower)
235,000 BTU/hr (68,9 kW) (10" w.c. Blower)
340,000 BTU/hr (100 kW) (Remote Blower) (Natural Gas)
370,000 BTU/hr (108,4 kW) (Remote Blower) (Butane & Propane)

Gas Orifice Δp vs. Input Measured from Tap "B" to Tap "D"



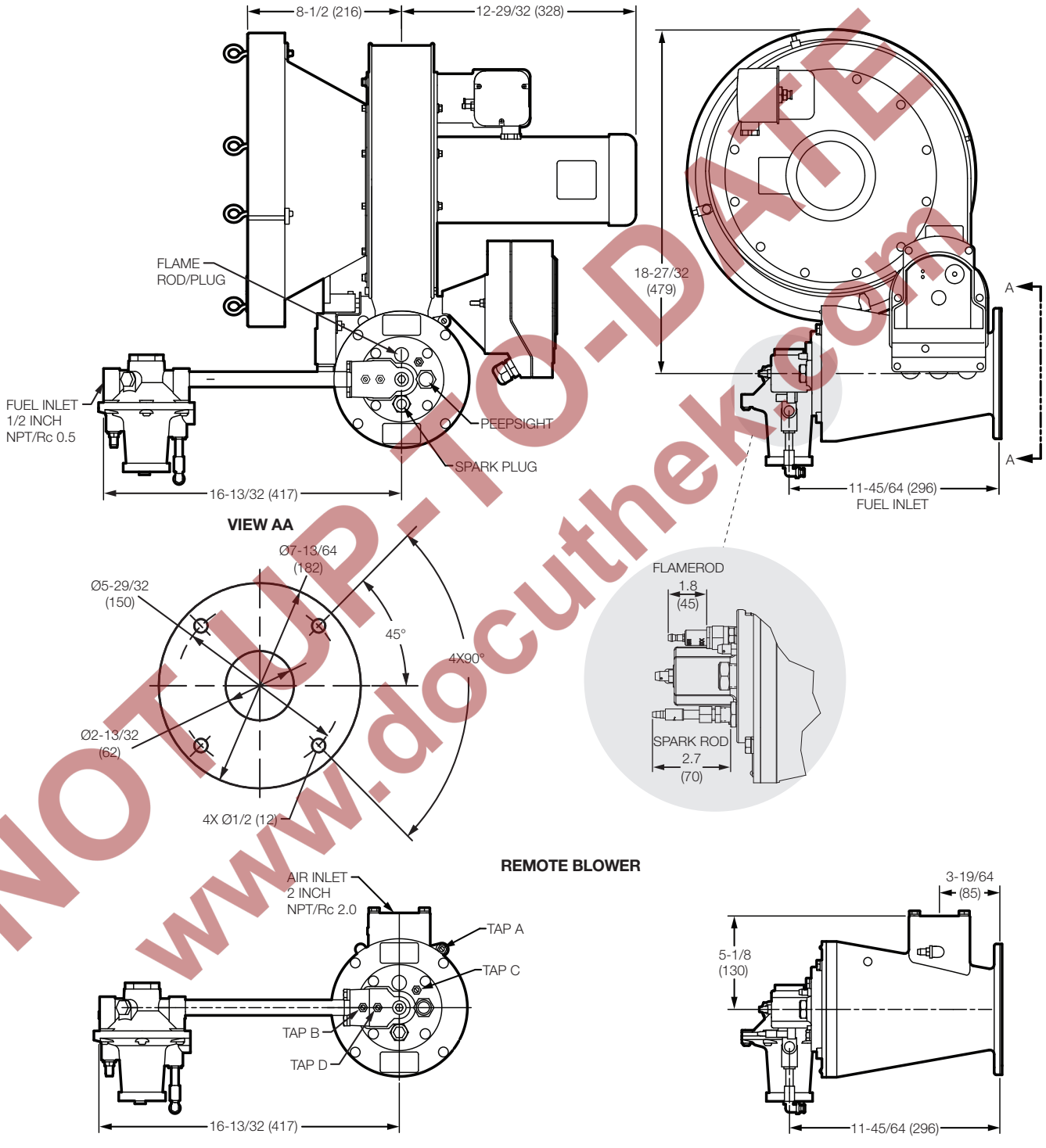
Air Orifice Δp vs. Input @ 3% O_2 Measured from Tap "A" to Tap "C"



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Dimensions and Specifications

Dimensions in inches (mm)



NOTE: DIMENSIONS CORRESPOND TO LARGEST BLOWER CONFIGURATION

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