

Selas Superflame™ Burners

Superflame™ 3000

Capacity: 3,000,000 Btu/hr (791kW)

Parameter	Burner Velocity		Superflame™ 3000
Maximum Input, Btu/hr (kW)¹	Medium and High Velocity		3,000,000 (791)
Minimum Input, Btu/hr (kW)¹ <i>For lower inputs, contact Selas</i>	Medium and High Velocity		300,000 (79)
Minimum Input Fixed Air, Btu/hr (kW)¹	Medium and High Velocity		75,000 (20)
Main Gas Inlet Pressure, "w.c. (mbar)	High Velocity	Natural Gas	11 (27)
	Medium Velocity	Natural Gas	5 (12)
Air Inlet Pressure, "w.c. (mbar)	High Velocity	Natural Gas	15 (37)
	Medium Velocity	Natural Gas	9 (22)
High Fire Visible Flame Length, inches (mm)	High Velocity	Natural Gas	57 (1450)
	Medium Velocity	Natural Gas	63 (1600)
Approximate Flame Velocity, ft/s (m/s)	High Velocity		415 (127)
	Medium Velocity		250 (76)
Maximum Combustion Air Temperature	700°F (371°C)		
Flame Detection	Flame Rod (Ionization), UV Scanner.		
Fuels	Natural Gas ²		

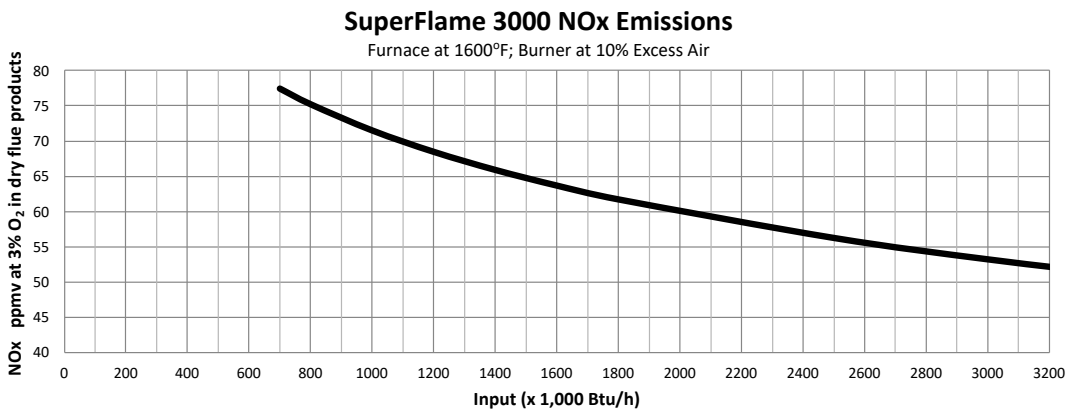
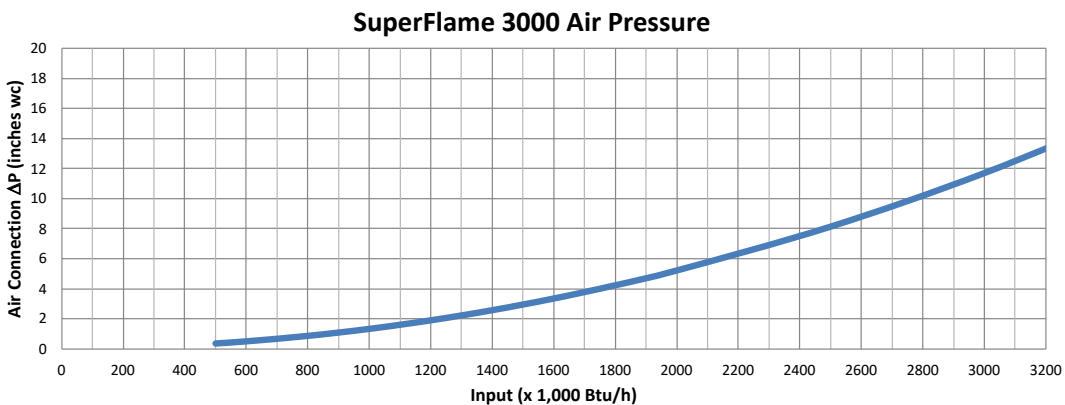
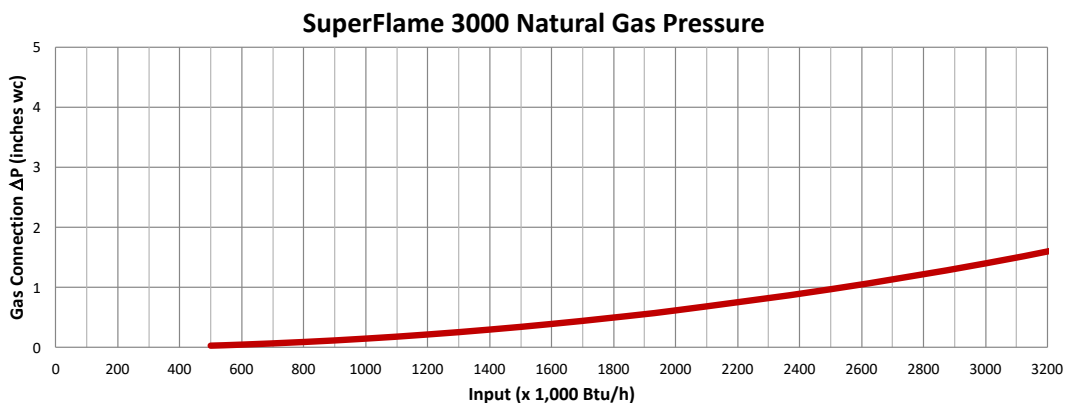
1. All imperial inputs based upon gross calorific values (HHV). All metric inputs based upon net calorific values (LHV).
2. Consult Selas for other fuels.
3. Other notes:
 - All information is based on laboratory testing in neutral (0 "w.c., 0 mbar) pressure chamber. Different chamber conditions may affect emissions and pressure.
 - All information is based on standard outer tube design. Changes in combustor will alter performance and pressures.
 - All inputs based upon standard conditions; 1 atmosphere, 70°F (21°C).
 - Selas 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.



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Selas Superflame™ Burners

Performance Graphs, Imperial

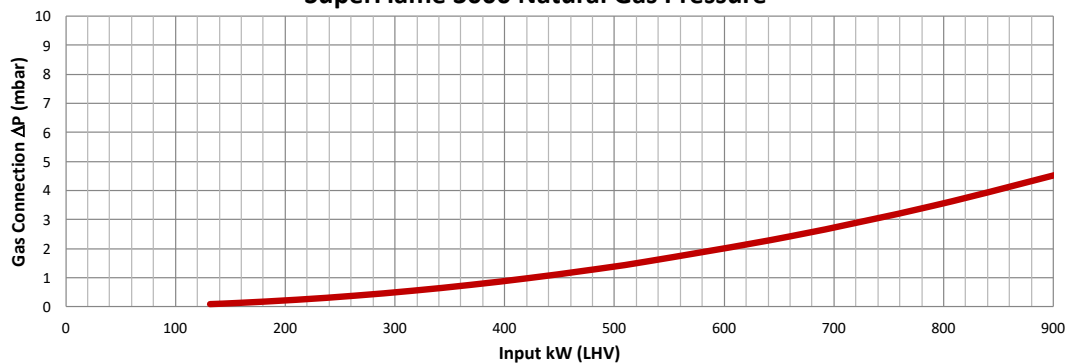


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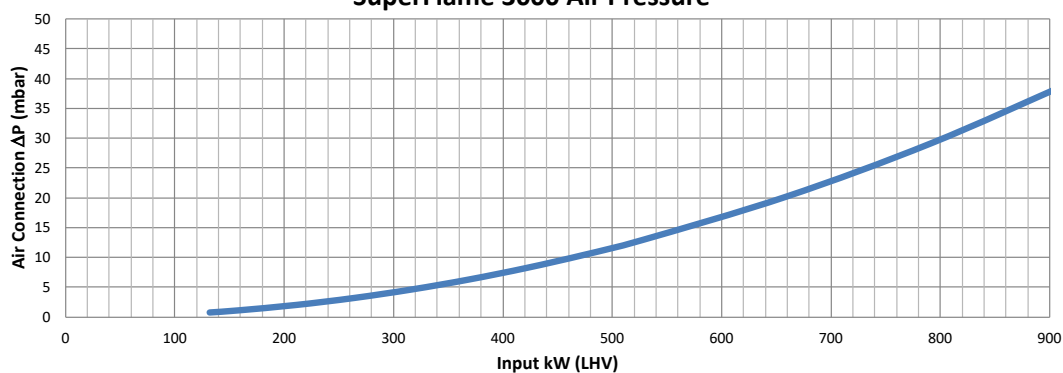
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Performance Graphs, Metric

SuperFlame 3000 Natural Gas Pressure

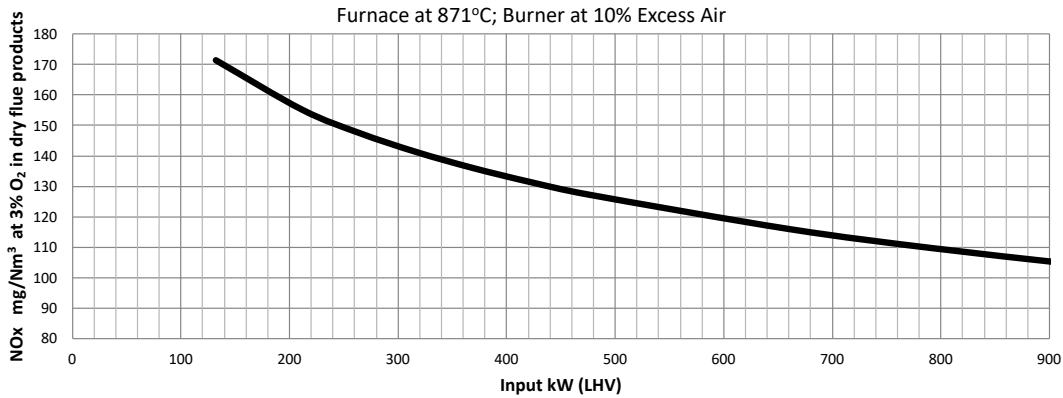


SuperFlame 3000 Air Pressure



SuperFlame 3000 NOx Emissions

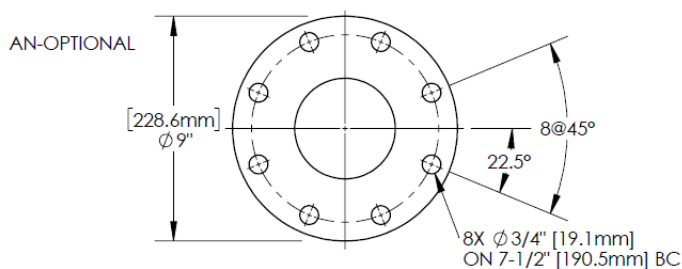
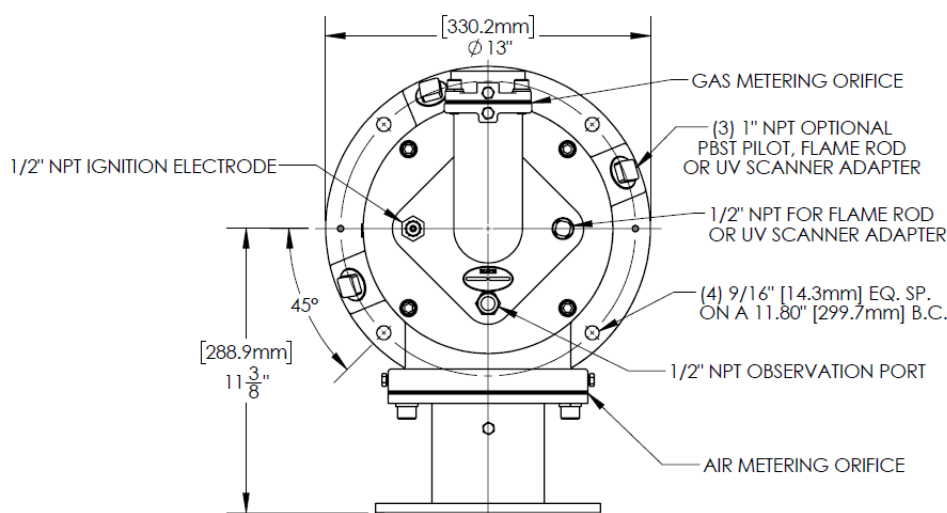
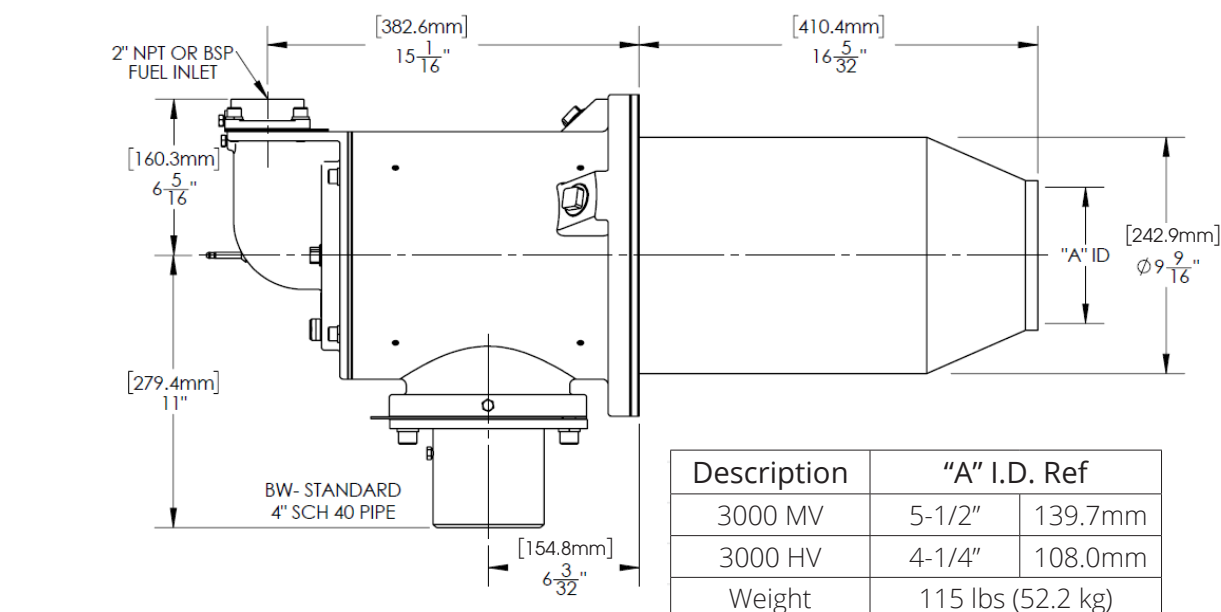
Furnace at 871°C; Burner at 10% Excess Air



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Data Sheet

Selas Superflame™ Burners



NOTE: Gas connection can be repositioned in 90° increments.

11012 Aurora Hudson Rd • Streetsboro, OH 44241

1-800-523-6500 • sales@selas.com

www.selas.com

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