

## Burner Capacity Information, Hauck NMC 260

NATURAL GAS, AMBIENT COMBUSTION AIR OPERATION, LOW PRESSURE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION				
<b>Capacity</b> (at 10% Excess Air)	(BTU/hr)	<b>2,050,000</b>	<b>4,840,000</b>	<b>6,710,000</b>	<b>9,360,000</b>	<b>11,390,000</b>
	(kW)	<b>540</b>	<b>1,280</b>	<b>1,770</b>	<b>2,480</b>	<b>3,010</b>
Secondary Air Capacity	(scfh)	17,816	46,800	66,180	93,600	114,660
	(nm <sup>3</sup> /hr)	477	1,254	1,773	2,507	3,072
Secondary Air Inlet Pressure	(in. w.c.)	1.0	6.9	13.9	27.7	41.6
	(mbar)	2.5	17.2	34.5	68.9	103.4
Primary Air Capacity	(scfh)	3,375	3,375	3,375	3,375	3,375
	(nm <sup>3</sup> /hr)	90	90	90	90	90
Primary Air Inlet Pressure	(in. w.c.)	4.0	4.0	4.0	4.0	4.0
	(mbar)	10.0	10.0	10.0	10.0	10.0
Gas Inlet Pressure	(in. w.c.)	1.1	2.6	3.5	4.9	6.0
	(mbar)	2.7	6.3	8.8	12.3	14.9
Flame Length (at 10% Excess Air)	(in)	36	54	72	90	96
	(mm)	910	1370	1830	2290	2440
Flame Diameter (at 10% Excess Air)	(in)	10	12	16	18	18
	(mm)	250	300	410	460	460
Maximum Operating Excess	(Air)	200%	400%	600%	400%	400%
	(Fuel)	30%	30%	30%	30%	30%

## Burner Capacity Information, Hauck NMC-H 260

NATURAL GAS, 800°F/427°C PREHEATED SECONDARY AIR OPERATION, LOW PRESSURE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION				
<b>Capacity</b> (at 10% Excess Air)	(BTU/hr)	<b>1,430,000</b>	<b>3,230,000</b>	<b>4,430,000</b>	<b>6,140,000</b>	<b>7,440,000</b>
	(kW)	<b>380</b>	<b>850</b>	<b>1,170</b>	<b>1,620</b>	<b>1,970</b>
Secondary Air Capacity	(scfh)	14,833	33,474	45,938	63,573	77,117
	(nm <sup>3</sup> /hr)	397	897	1,231	1,703	2,066
Secondary Air Inlet Pressure	(in. w.c.)	1.0	6.9	13.9	27.7	41.6
	(mbar)	2.5	17.2	34.5	68.9	103.4
Primary Air Capacity	(scfh)	3,375	3,375	3,375	3,375	3,375
	(nm <sup>3</sup> /hr)	90	90	90	90	90
Primary Air Inlet Pressure	(in. w.c.)	4.0	4.0	4.0	4.0	4.0
	(mbar)	10.0	10.0	10.0	10.0	10.0
Gas Inlet Pressure	(in. w.c.)	0.8	1.9	2.7	3.7	4.6
	(mbar)	2.0	4.8	6.7	9.3	11.3
Flame Length (at 10% Excess Air)	(in)	27	41	54	68	72
	(mm)	690	1030	1370	1710	1830
Flame Diameter (at 10% Excess Air)	(in)	9	11	14	16	16
	(mm)	230	270	370	410	410
Maximum Operating Excess	(Air)	160%	320%	480%	320%	320%
	(Fuel)	30%	30%	30%	30%	30%

**NOTES:**

- Capacities based on Natural Gas with HHV of 1034 BTU/ft<sup>3</sup> (Standard) / LHV of 10.21 kWh/nm<sup>3</sup> (Metric), 0.59 S.G., and a stoichiometric ratio of 9.74:1 at 10% excess air; with burner firing into chamber under no pressure.
- Air and fuel flows based on STP operating conditions at sea level and industry standard air and gas piping practices.
- Fuel inlet pressures given for reference only and should not be used for measuring fuel flow to the burner.
- Flame lengths measured from end of the combustion tile.
- Flame detection via UV scanner; for detection limits refer to the Burner Operating and Ignition Window.
- Ignition via IPG5411 gas pilot; for ignition limits refer to the Burner Operating and Ignition Window.
- Burner is suitable for use on gaseous and liquid fuels other than those listed, and with combustion air other than ambient temperature or that listed; for further information consult Hauck.

**Honeywell**

## Burner Capacity Information, Hauck NMC 260

### NO. 2 FUEL OIL, AMBIENT COMBUSTION AIR OPERATION, LOW PRESSURE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION				
<b>Capacity</b> (at 20% Excess Air)	(BTU/hr)	<b>2,220,000</b>	<b>4,640,000</b>	<b>6,260,000</b>	<b>8,540,000</b>	<b>10,300,000</b>
	(kW)	<b>590</b>	<b>1,230</b>	<b>1,660</b>	<b>2,260</b>	<b>2,720</b>
Secondary Air Capacity	(scfh)	17,816	46,800	66,180	93,600	114,660
	(nm <sup>3</sup> /hr)	477	1,254	1,773	2,507	3,072
Secondary Air Inlet Pressure	(in.w.c.)	1.0	6.9	13.9	27.7	41.6
	(mbar)	2.5	17.2	34.5	68.9	103.4
Primary Air Capacity	(scfh)	8,880	8,880	8,880	8,880	8,880
	(nm <sup>3</sup> /hr)	238	238	238	238	238
Primary Air Inlet Pressure	(in.w.c.)	27.7	27.7	27.7	27.7	27.7
	(mbar)	68.9	68.9	68.9	68.9	68.9
Fuel Oil Flow(at 20% Excess Air)	(gph)	16.1	33.6	45.3	61.9	74.6
	(lph)	61	127	172	234	282
Flame Length (at 20% Excess Air)	(in)	36	60	96	114	120
	(mm)	910	1520	2440	2900	3050
Flame Diameter (at 20% Excess Air)	(in)	10	16	18	21	24
	(mm)	250	410	460	530	610
Maximum Operating Excess	(Air)	100%	400%	500%	500%	500%
	(Fuel)	30%	30%	30%	30%	30%

## Burner Capacity Information, Hauck NMC-H 260

### NO. 2 FUEL OIL, 800°F/427°C PREHEATED SECONDARY AIR OPERATION, LOW PRESSURE ATOMIZATION

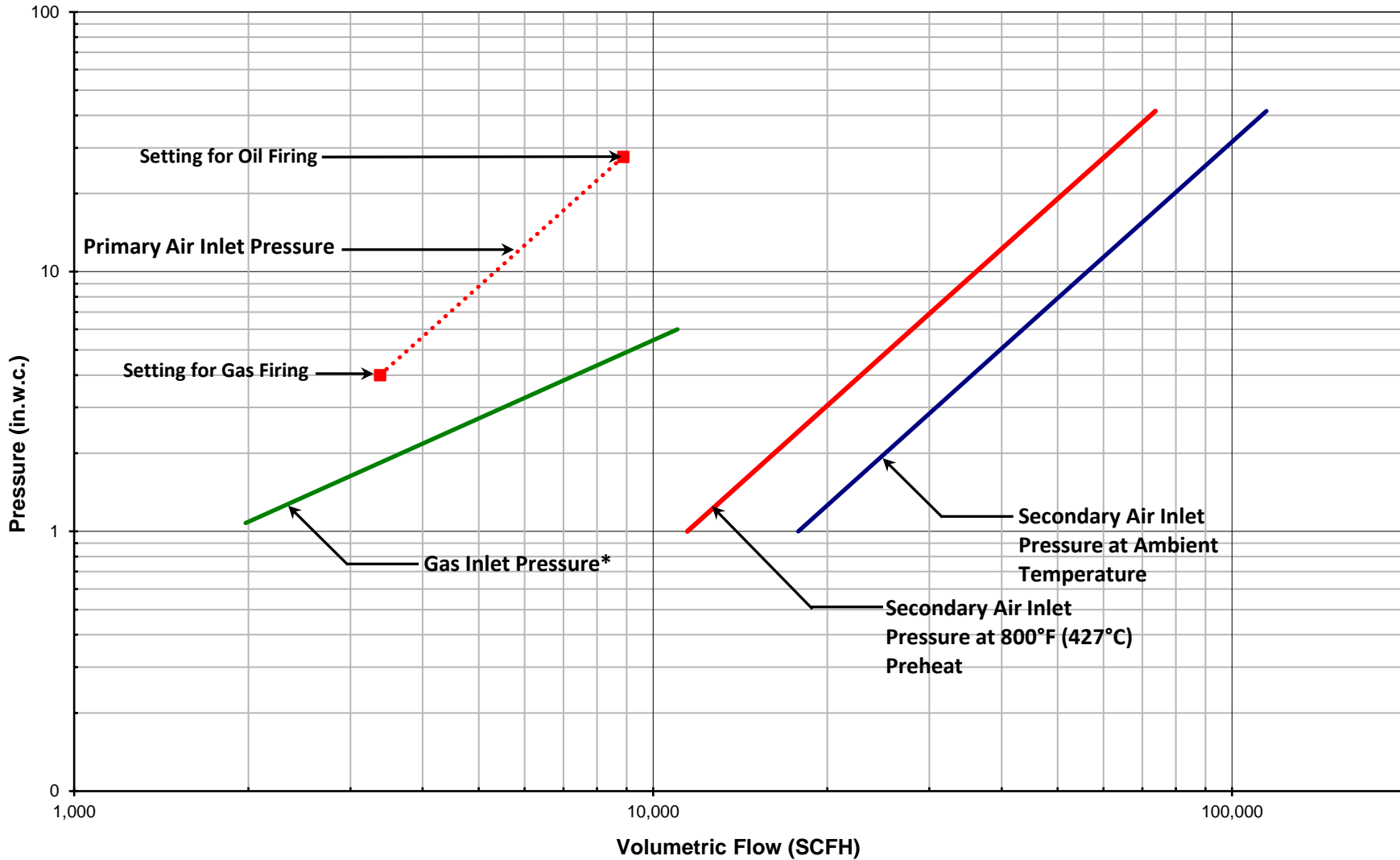
SPECIFICATIONS		OPERATIONAL INFORMATION				
<b>Capacity</b> (at 20% Excess Air)	(BTU/hr)	<b>1,690,000</b>	<b>3,250,000</b>	<b>4,290,000</b>	<b>5,760,000</b>	<b>6,890,000</b>
	(kW)	<b>450</b>	<b>860</b>	<b>1,130</b>	<b>1,520</b>	<b>1,820</b>
Secondary Air Capacity	(scfh)	11,458	30,099	42,563	60,198	73,742
	(nm <sup>3</sup> /hr)	307	806	1,140	1,613	1,975
Secondary Air Inlet Pressure	(in.w.c.)	1.0	6.9	13.9	27.7	41.6
	(mbar)	2.5	17.2	34.5	68.9	103.4
Primary Air Capacity	(scfh)	8,880	8,880	8,880	8,880	8,880
	(nm <sup>3</sup> /hr)	238	238	238	238	238
Primary Air Inlet Pressure	(in.w.c.)	27.7	27.7	27.7	27.7	27.7
	(mbar)	68.9	68.9	68.9	68.9	68.9
Fuel Oil Flow(at 20% Excess Air)	(gph)	12.3	23.5	31.1	41.7	49.9
	(lph)	46	89	118	158	189
Flame Length(at 20% Excess Air)	(in)	27	45	72	86	90
	(mm)	690	1140	1830	2170	2290
Flame Diameter(at 20% Excess Air)	(in)	9	14	16	19	22
	(mm)	230	370	410	480	550
Maximum Operating Excess	(Air)	80%	320%	400%	400%	400%
	(Fuel)	30%	30%	30%	30%	30%

**NOTES:**

- Capacities based on No. 2 Fuel Oil with HHV of 138,000 BTU/USgal (Standard) / LHV of 10.3 kWh/liter (Metric), 0.87 S.G., and a stoichiometric ratio of 1380:1 at 20% excess air; with burner firing into chamber under no pressure.
- Air and fuel flows based on STP operating conditions at sea level and industry standard air and gas piping practices.
- Fuel inlet pressures given for reference only and should not be used for measuring fuel flow to the burner.
- Flame lengths measured from end of the combustion tile.
- Flame detection via UV scanner; for detection limits refer to the Burner Operating and Ignition Window.
- Ignition via IPG5411 gas pilot; for ignition limits refer to the Burner Operating and Ignition Window.
- Burner is suitable for use on gaseous and liquid fuels other than those listed, and with combustion air other than ambient temperature or that listed; for further information consult Hauck.

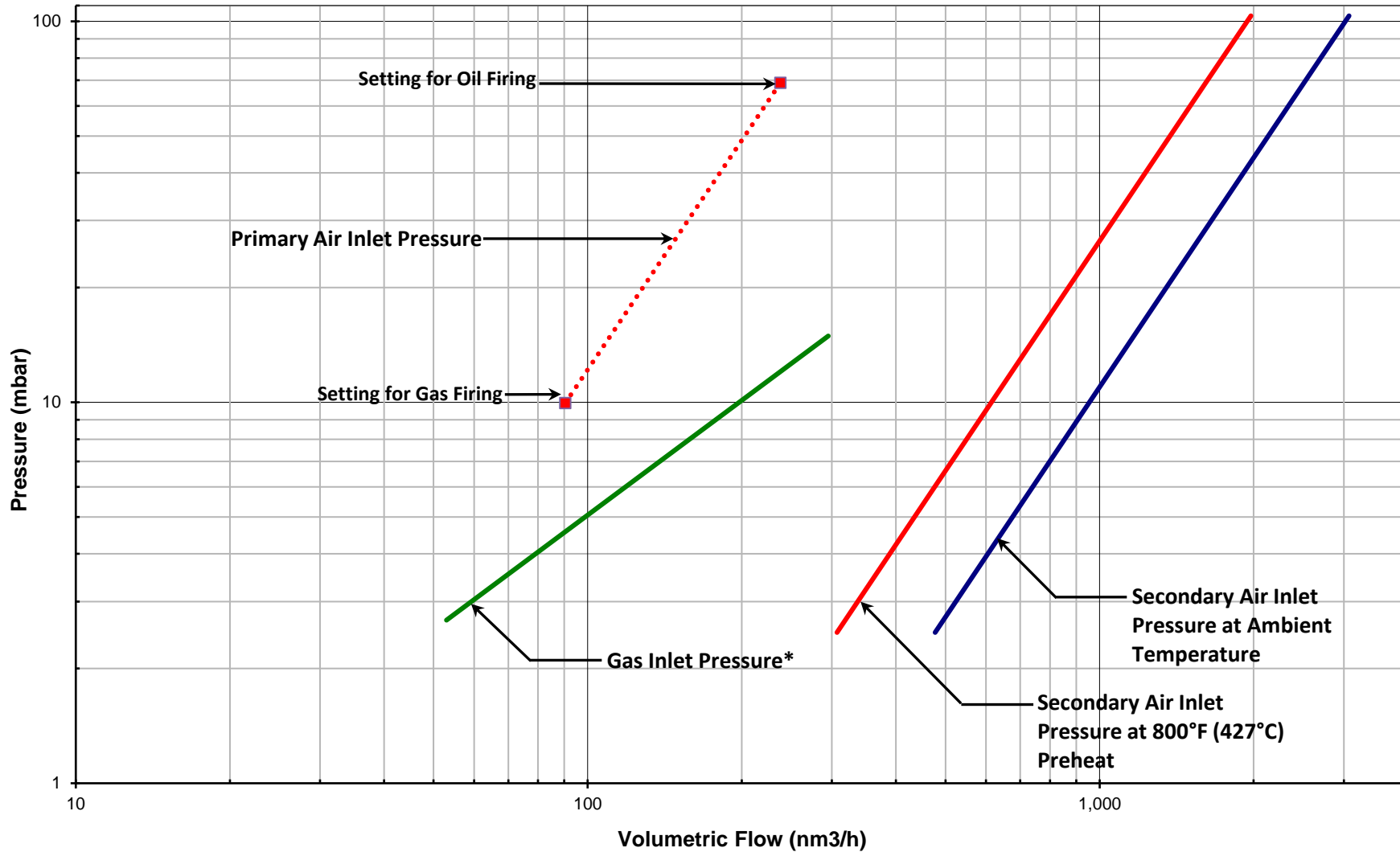
**Honeywell**

**NMC/NMC-H 260 Pressure Curves**  
**Natural Gas 1034 BTU/ft<sup>3</sup> (HHV Standard) / 10.21 kWh/nm<sup>3</sup> (LHV Metric), 0.59 S.G.**  
**and Ambient and Preheated Combustion Air**



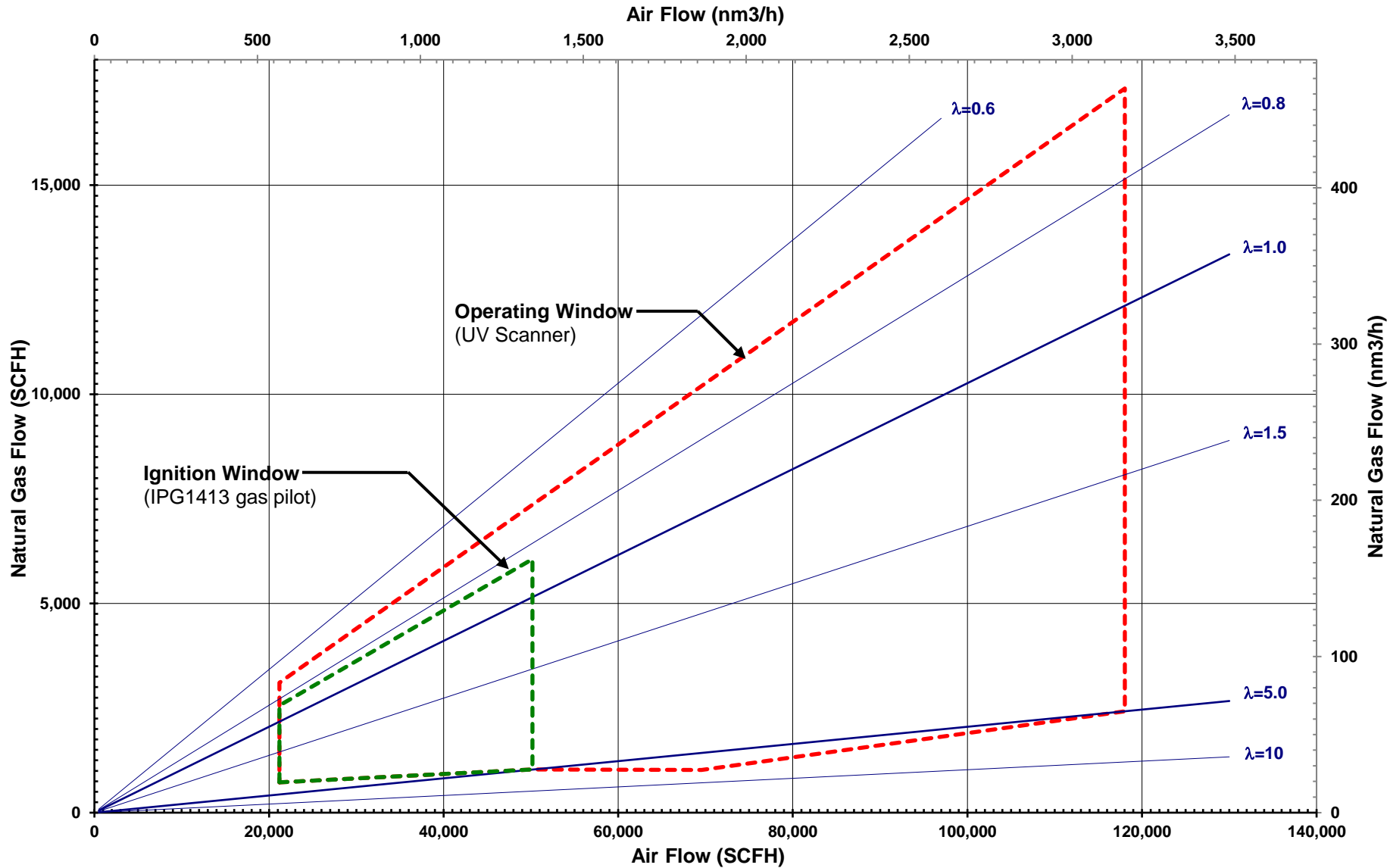
\*Note: Gas Inlet Pressure for NMC burner is not suitable for fuel flow measurement and is given for component sizing and reference only

**NMC/NMC-H 260 Pressure Curves**  
 Natural Gas 1034 BTU/ft<sup>3</sup> (HHV Standard) / 10.21 kWh/nm<sup>3</sup> (LHV Metric), 0.59 S.G.  
 and Ambient and Preheated Combustion Air



\*Note: Gas Inlet Pressure for NMC burner is not suitable for fuel flow measurement and is given for component sizing and reference only

**NMC/NMC-H 260 Operating and Ignition Window**  
 Natural Gas 1034 BTU/ft<sup>3</sup> (HHV Standard) / 10.21 kWh/nm<sup>3</sup> (LHV Metric), 0.59 S.G.  
 and Ambient Combustion Air



**NMC/NMC-H 260 Operating and Ignition Window**  
 No. 2 Fuel Oil 138,000 BTU/gal (HHV Standard) / 10.3 kWh/liter (LHV Metric), 0.87 S.G.  
 and Ambient Combustion Air

