

NATURAL GAS, AMBIENT COMBUSTION AIR OPERATION

SPECIFICATIONS	BURNER MODEL					
SECIFICATIONS		120B	220B	125B	225B	
Maximum Capacity(10% Excess Air)	(BTU/hr)	500,000	500,000	880,000	880,000	
Waximum Capacity(10% Excess Air)	(kW)	130	130	230	230	
Air Capacity	(scfh)	5,180	5,180	9,100	9,100	
	(nm ³ /hr)	139	139	244	244	
Air Inlet Pressure	(in.w.c.)	27.7	13.9	27.7	18.7	
All lillet Flessule	(mbar)	68.9	34.5	68.9	46.5	
Gas Inlet Pressure	(in.w.c.)	3.5	3.5	8.5	8.5	
Gas Inlet Flessule	(mbar)	8.7	8.7	21.1	21.1	
Flame Longth	(in)	120	120	132	132	
Flame Length	(m)	3.0	3.0	3.4	3.4	
Operating Limits	(Excess Air)	450%	450%	325%	325%	
	(λ)	5.5	5.5	4.3	4.3	

NATURAL GAS, 800°F/425°C PREHEATED COMBUSTION AIR OPERATION

SPECIFICATIONS	BURNER MODEL					
SPECIFICATIONS		120B	220B	125B	225B	
Maximum Capacity(10% Excess Air)	(BTU/hr)	320,000	320,000	560,000	560,000	
	(kW)	80	80	150	150	
Air Capacity	(scfh)	3,330	3,330	5,855	5,855	
Air Capacity	(nm ³ /hr)	89	89	157	157	
Air Inlet Pressure	(in.w.c.)	27.7	13.9	27.7	18.7	
All Illet Flessure	(mbar)	68.9	34.5	68.9	46.5	
Gas Inlet Pressure	(in.w.c.)	2.7	2.7	6.4	6.4	
Gas inlet Flessule	(mbar)	6.7	6.7	15.9	15.9	
Flame Longth	(in)	90	90	100	100	
Flame Length	(m)	2.3	2.3	2.5	2.5	
Operating Limite	(Excess Air)	360%	360%	260%	260%	
Operating Limits	(λ)	4.6	4.6	3.6	3.6	

NOTES:

1. Capacities based on Natural Gas with HHV of 1034 BTU/ft³ (Standard), and LHV of 10.21 kWh/nm3 (Metric), 0.59 S.G., and a stoichiometric ratio of 9.74:1 with burner firing into chamber under no pressure. At less than 25% of maximum capacity, 100% excess air operation is recommended and above 25% of maximum capacity, 10% excess air operation in recommended.

2. Air and fuel flows based on STP operating conditions at sea level and industry standard air and gas piping practices.

3. Gas inlet pressure given for reference only and should not be used for measuring fuel flow to the burner.

4. Flame lengths measured from end of the ignition nozzle and are affected by tube diameter, tube geometry and operating conditions.

- 5. Flame detection via UV scanner or flame ionization rod.
- 6. Ignition limits are established with direct spark igniter, metered air and fuel flows and 5kV/15mA spark ignition transformer; for limits listed as "N/R" ignition is Not Recommended at this capacity.
- 7. Burner is suitable for use on gaseous fuels other than Natural Gas, including propane gas, liquid petroleum gas and coke oven gas.

8. Burner is suitable for use on push, push-pull or pull through type systems.

9. Maximum tube diameter 7.5 Inches (190 mm) for RFG_20 and 9.25 Inches (235mm) for RFG_25. For tubes exceeding these diameters, an auxilliary tube is required; consult Hauck.

In accordance with Hauck's commitment to Total Quality Improvement, Hauck reserves the right to change the specifications of products without prior notice.

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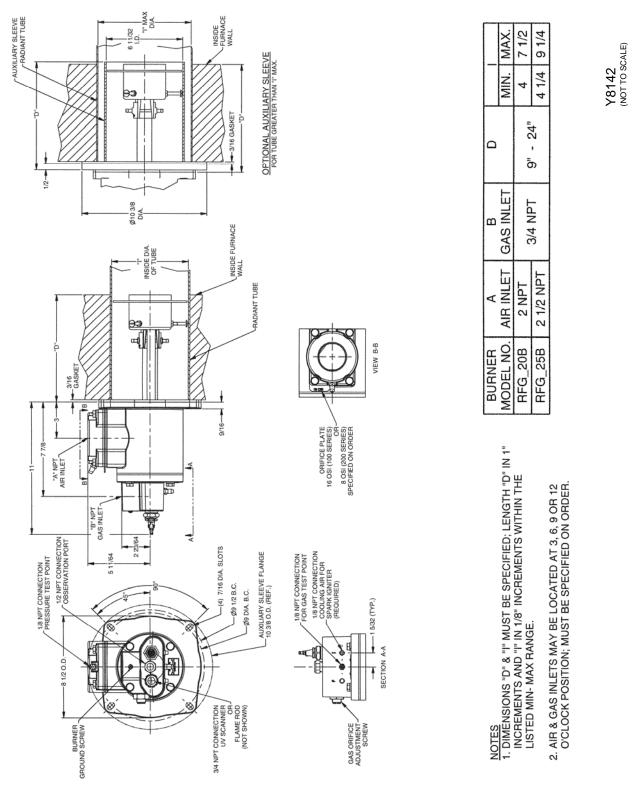
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DIMENSIONS





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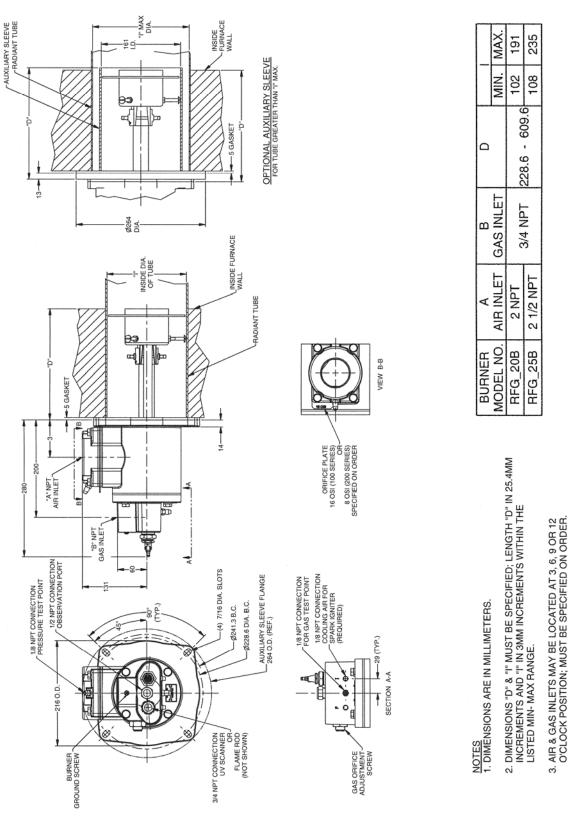
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METRIC DIMENSIONS

Y8142 METRIC (NOT TO SCALE)

RFG RADiFlame RADIANT TUBE GAS BURNER



In accordance with Hauck's commitment to Total Quality Improvement, Hauck reserves the right to change the specifications of products without prior notice.



RFG RADiFlame RADIANT TUBE GAS BURNERS Burner Capacity Information, RFG 120B

NATURAL GAS, AMBIENT COMBUSTION AIR OPERATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity	(BTU/hr) (kW)	60,000 20	260,000 70	370,000 100	440,000 120	500,000 130	
Air Conceitu	(scfh)	1,100	2,725	3,800	4,575	5,180	
Air Capacity	(nm ³ /hr)	29	73	102	123	139	
Air Inlet Pressure	(in.w.c.)	0.9	6.9	13.8	20.8	27.7	
All Illet Flessure	(mbar)	2.2	17.2	34.3	51.8	68.9	
Gas Inlet Pressure	(in.w.c.)	0.2	1.0	2.0	2.8	3.5	
Gas inlet Pressure	(mbar)	0.4	2.5	5.0	7.0	8.7	
Flame Length	(in)	60	78	96	108	120	
	(mm)	1520	1980	2440	2740	3050	
Operating Limits	(Excess Air)	200%	300%	400%	425%	450%	
	(λ)	3.0	4.0	5.0	5.3	5.5	
Maximum Ignition Gas	(scfh)	100	285	375	400	425	
Maximum ignition Gas	(nm ³ /hr)	2.7	7.6	10.0	10.7	425.0	
Minimum Ignition Gas	(scfh)	40	75	85	95	100	
winning inton gas	(nm ³ /hr)	1.1	2.0	2.3	2.5	100.0	

NATURAL GAS, 800°F/425°C PREHEATED COMBUSTION AIR OPERATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity	(BTU/hr)	40,000	170,000	240,000	280,000	320,000	
Capacity	(kW)	10	40	60	70	80	
Air Capacity	(scfh)	707	1,753	2,444	2,942	3,331	
All Capacity	(nm ³ /hr)	19	47	65	79	89	
Air Inlet Pressure	(in.w.c.)	0.9	6.9	13.8	20.8	27.7	
All IIIlet Flessule	(mbar)	2.2	17.2	34.3	51.8	68.9	
Gas Inlet Pressure	(in.w.c.)	0.1	0.8	1.5	2.1	2.7	
Gas inlet Flessule	(mbar)	0.3	1.9	3.8	5.3	6.6	
Flame Length	(in)	45	59	72	81	90	
	(mm)	1140	1490	1830	2060	2290	
Operating Limits	(Excess Air)	160%	240%	320%	340%	360%	
	(λ)	2.6	3.4	4.2	4.4	4.6	
Maximum Ignition Gas	(scfh)	69	171	239	288	326	
Waximum Igrillion Gas	(nm ³ /hr)	1.9	4.6	6.4	7.7	325.8	
Minimum Ignition Gas	(scfh)	28	53	60	69	74	
winning inton Gas	(nm ³ /hr)	0.7	1.4	1.6	1.8	74.4	

NOTES:

1. Capacities based on Natural Gas with HHV of 1034 BTU/ft³ (Standard), and LHV of 10.21 kWh/nm³ (Metric), 0.59 S.G., and a stoichiometric ratio of 9.74:1 with burner firing into chamber under no pressure. At less than 25% of maximum capacity, 100% excess air operation is recommended and above 25% of maximum capacity, 10% excess air operation in recommended.

2. Air and fuel flows based on STP operating conditions at sea level and industry standard air and gas piping practices.

3. Gas inlet pressure given for reference only and should not be used for measuring fuel flow to the burner.

4. Flame lengths measured from end of the ignition nozzle and are affected by tube diameter, tube geometry and operating conditions.

5. Flame detection via UV scanner or flame ionization rod.

6. Ignition limits are established with direct spark igniter, metered air and fuel flows and 5kV/15mA spark ignition transformer; for limits listed as N/R ignition is Not Recommended at this capacity.

7. Burner is suitable for use on gaseous fuels other than Natural Gas, including propane gas, liquid petroleum gas and coke oven gas.

8. Burner is suitable for use on push, push-pull or pull through type systems.

9. Maximum tube diameter 7.5 Inches (190mm). For tubes exceeding this diameter, an auxilliary tube is required; consult Hauck.

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RFG RADiFlame RADIANT TUBE GAS BURNERS Burner Capacity Information, RFG 220B

NATURAL GAS, AMBIENT COMBUSTION AIR OPERATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity	(BTU/hr)	60,000	260,000	370,000	440,000	500,000	
Capacity	(kW)	20	70	100	120	130	
Air Capacity	(scfh)	1,100	2,725	3,800	4,575	5,180	
All Capacity	(nm ³ /hr)	29	73	102	123	139	
Air Inlet Pressure	(in.w.c.)	0.6	3.5	6.9	10.5	13.9	
All lillet Flessure	(mbar)	1.5	8.6	17.2	26.0	34.5	
Gas Inlet Pressure	(in.w.c.)	0.2	1.0	2.0	2.8	3.5	
Gas inlet Flessure	(mbar)	0.4	2.5	5.0	7.0	8.7	
Flame Length	(in)	60	78	96	108	120	
Flame Length	(mm)	1520	1980	2440	2740	3050	
Operating Limits	(Excess Air)	200%	300%	400%	425%	450%	
	(λ)	3.0	4.0	5.0	5.3	5.5	
Maximum Ignition Gas	(scfh)	100	285	375	400	425	
Maximum Ignition Gas	(nm ³ /hr)	2.7	7.6	10.0	10.7	425.0	
Minimum Ignition Gas	(scfh)	40	75	85	95	100	
winning inton gas	(nm ³ /hr)	1.1	2.0	2.3	2.5	100.0	

NATURAL GAS, 800°F/425°C PREHEATED COMBUSTION AIR OPERATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity	(BTU/hr)	40,000	170,000	240,000	280,000	320,000	
Capacity	(kW)	10	40	60	70	80	
Air Capacity	(scfh)	707	1,753	2,444	2,942	3,331	
All Capacity	(nm ³ /hr)	19	47	65	79	89	
Air Inlet Pressure	(in.w.c.)	0.6	3.5	6.9	10.5	13.9	
All Illet Flessure	(mbar)	1.5	8.6	17.2	26.0	34.5	
Gas Inlet Pressure	(in.w.c.)	0.1	0.8	1.5	2.1	2.7	
Gas met Pressure	(mbar)	0.3	1.9	3.8	5.3	6.6	
Flame Length	(in)	45	59	72	81	90	
	(mm)	1140	1490	1830	2060	2290	
Operating Limits	(Excess Air)	160%	240%	320%	340%	360%	
	(λ)	2.6	3.4	4.2	4.4	4.6	
Maximum Ignition Gas	(scfh)	69	171	239	288	326	
Maximum Ignition Gas	(nm ³ /hr)	1.9	4.6	6.4	7.7	325.8	
Minimum Ignition Gas	(scfh)	28	53	60	69	74	
winning inton gas	(nm ³ /hr)	0.7	1.4	1.6	1.8	74.4	

NOTES:

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 Capacities based on Natural Gas with HHV of 1034 BTU/ft³ (Standard), and LHV of 10.21 kWh/nm³ (Metric), 0.59 S.G., and a stoichiometric ratio of 9.74:1 with burner firing into chamber under no pressure. At less than 25% of maximum capacity, 100% excess air operation is recommended and above 25% of maximum capacity, 10% excess air operation in recommended.

2. Air and fuel flows based on STP operating conditions at sea level and industry standard air and gas piping practices.

3. Gas inlet pressure given for reference only and should not be used for measuring fuel flow to the burner.

4. Flame lengths measured from end of the ignition nozzle and are affected by tube diameter, tube geometry and operating conditions.

5. Flame detection via UV scanner or flame ionization rod.

6. Ignition limits are established with direct spark igniter, metered air and fuel flows and 5kV/15mA spark ignition transformer; for limits listed as N/R ignition is Not Recommended at this capacity.

7. Burner is suitable for use on gaseous fuels other than Natural Gas, including propane gas, liquid petroleum gas and coke oven gas.

8. Burner is suitable for use on push, push-pull or pull through type systems.

9. Maximum tube diameter 7.5 Inches (190 mm). For tubes exceeding this diameter, an auxilliary tube is required; consult Hauck.

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Burner Capacity Information, RFG 125B

NATURAL GAS, AMBIENT COMBUSTION AIR OPERATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity	(BTU/hr)	100,000	430,000	620,000	750,000	880,000	
Capacity	(kW)	30	110	160	200	230	
Air Capacity	(scfh)	1,800	4,500	6,400	7,750	9,100	
All Capacity	(nm ³ /hr)	48	121	171	208	244	
Air Inlet Pressure	(in.w.c.)	0.9	6.9	13.8	20.8	27.7	
All Illet Flessule	(mbar)	2.2	17.2	34.3	51.8	68.9	
Gas Inlet Pressure	(in.w.c.)	0.4	2.4	4.5	6.5	8.5	
Gas inlet Flessule	(mbar)	1.0	5.9	11.1	16.2	21.0	
Flame Length	(in)	60	78	108	120	132	
Tiame Length	(mm)	1520	1980	2740	3050	3350	
Operating Limits	(Excess Air)	200%	500%	400%	325%	325%	
	(λ)	3.0	6.0	5.0	4.3	4.2	
Maximum Ignition Gas	(scfh)	150	300	400	500	N/R	
Maximum Ignicion Gas	(nm ³ /hr)	4.0	8.0	10.7	13.4	N/R	
Minimum Ignition Gas	(scfh)	65	80	150	200	N/R	
Winning introl Gas	(nm ³ /hr)	1.7	2.1	4.0	5.4	N/R	

NATURAL GAS, 800°F/425°C PREHEATED COMBUSTION AIR OPERATION

SPECIFICATIONS	OPERATIONAL INFORMATION					
Capacity	(BTU/hr) (kW)	60,000 20	280,000 70	400,000 110	480,000 130	560,000 150
Air Capacity	(scfh)	1,158	2,894	4,116	4,984	5,853
All Capacity	(nm ³ /hr)	31	78	110	134	157
Air Inlet Pressure	(in.w.c.)	0.9	6.9	13.8	20.8	27.7
All Inlet Pressure	(mbar)	2.2	17.2	34.3	51.8	68.9
Gas Inlet Pressure	(in.w.c.)	0.3	1.8	3.4	4.9	6.4
Gas met Pressure	(mbar)	0.8	4.5	8.4	12.3	16.0
Flame Length	(in)	45	59	81	90	99
Tiame Length	(mm)	1140	1490	2060	2290	2510
Operating Limits	(Excess Air)	160%	400%	320%	260%	260%
	(λ)	2.6	5.0	4.2	3.6	3.6
Maximum Ignition Gas	(scfh)	113	283	402	500	N/R
Maximum Ignition Gas	(nm ³ /hr)	3.0	7.6	10.8	13.4	N/R
Minimum Ignition Gas	(scfh)	46	59	101	142	N/R
Winning introl Gas	(nm ³ /hr)	1.2	1.6	2.7	3.8	N/R

NOTES:

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 Capacities based on Natural Gas with HHV of 1034 BTU/ft³ (Standard), and LHV of 10.21 kWh/nm³ (Metric), 0.59 S.G., and a stoichiometric ratio of 9.74:1 with burner firing into chamber under no pressure. At less than 25% of maximum capacity, 100% excess air operation is recommended and above 25% of maximum capacity, 10% excess air operation in recommended.

2. Air and fuel flows based on STP operating conditions at sea level and industry standard air and gas piping practices.

3. Gas inlet pressure given for reference only and should not be used for measuring fuel flow to the burner.

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4. Flame lengths measured from end of the ignition nozzle and are affected by tube diameter, tube geometry and operating conditions.

5. Flame detection via UV scanner or flame ionization rod.

 Ignition limits are established with direct spark igniter, metered air and fuel flows and 5kV/15mA spark ignition transformer; for limits listed as N/R ignition is Not Recommended at this capacity.

7. Burner is suitable for use on gaseous fuels other than Natural Gas, including propane gas, liquid petroleum gas and coke oven gas.

8. Burner is suitable for use on push, push-pull or pull through type systems.

9. Maximum tube diameter 9.25 Inches (235mm). For tubes exceeding this diameter, an auxilliary tube is required; consult Hauck.

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Fax: 717-273-9882



Burner Capacity Information, RFG 225B

NATURAL GAS, AMBIENT COMBUSTION AIR OPERATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity	(BTU/hr)	100,000	430,000	620,000	750,000	880,000	
Capacity	(kW)	30	110	160	200	230	
Air Capacity	(scfh)	1,800	4,500	6,400	7,750	9,100	
All Capacity	(nm ³ /hr)	48	121	171	208	244	
Air Inlet Pressure	(in.w.c.)	0.6	4.2	8.8	13.3	18.7	
All Illet Flessure	(mbar)	1.5	10.4	22.0	33.1	46.5	
Gas Inlet Pressure	(in.w.c.)	0.4	2.4	4.5	6.5	8.5	
Gas Inlet Flessure	(mbar)	1.0	5.9	11.1	16.2	21.0	
Flame Length	(in)	60	78	108	120	132	
	(mm)	1520	1980	2740	3050	3350	
Operating Limits	(Excess Air)	200%	500%	400%	325%	325%	
	(λ)	3.0	6.0	5.0	4.3	4.2	
Maximum Ignition Gas	(scfh)	150	300	400	500	N/R	
Waximum Igrillion Gas	(nm ³ /hr)	4.0	8.0	10.7	13.4	N/R	
Minimum Ignition Gas	(scfh)	65	80	150	200	N/R	
Winning Intion Gas	(nm ³ /hr)	1.7	2.1	4.0	5.4	N/R	

NATURAL GAS, 800°F/425°C PREHEATED COMBUSTION AIR OPERATION

SPECIFICATIONS	OPERATIONAL INFORMATION					
Capacity	(BTU/hr) (kW)	60,000 20	280,000 70	400,000 110	480,000 130	560,000 150
Air Capacity	(scfh)	1,158	2,894	4,116	4,984	5,853
All Capacity	(nm ³ /hr)	31	78	110	134	157
Air Inlet Pressure	(in.w.c.)	0.6	4.2	8.8	13.3	18.7
All Illet Flessure	(mbar)	1.5	10.4	22.0	33.1	46.5
Gas Inlet Pressure	(in.w.c.)	0.3	1.8	3.4	4.9	6.4
Gas Inlet Flessure	(mbar)	0.8	4.5	8.4	12.3	16.0
Flame Length	(in)	45	59	81	90	99
Flame Length	(mm)	1140	1490	2060	2290	2510
Operating Limits	(Excess Air)	160%	400%	320%	260%	260%
	(λ)	2.6	5.0	4.2	3.6	3.6
Maximum Ignition Gas	(scfh)	113	283	402	500	N/R
Maximum ignition Gas	(nm ³ /hr)	3.0	7.6	10.8	13.4	N/R
Minimum Ignition Gas	(scfh)	46	59	101	142	N/R
Winning inton Gas	(nm ³ /hr)	1.2	1.6	2.7	3.8	N/R

NOTES:

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 Capacities based on Natural Gas with HHV of 1034 BTU/ft³ (Standard), and LHV of 10.21 kWh/nm³ (Metric), 0.59 S.G., and a stoichiometric ratio of 9.74:1 with burner firing into chamber under no pressure. At less than 25% of maximum capacity, 100% excess air operation is recommended and above 25% of maximum capacity, 10% excess air operation in recommended.

2. Air and fuel flows based on STP operating conditions at sea level and industry standard air and gas piping practices.

3. Gas inlet pressure given for reference only and should not be used for measuring fuel flow to the burner.

4. Flame lengths measured from end of the ignition nozzle and are affected by tube diameter, tube geometry and operating conditions.

5. Flame detection via UV scanner or flame ionization rod.

6. Ignition limits are established with direct spark igniter, metered air and fuel flows and 5kV/15mA spark ignition transformer; for limits listed as N/R ignition is Not Recommended at this capacity.

7. Burner is suitable for use on gaseous fuels other than Natural Gas, including propane gas, liquid petroleum gas and coke oven gas.

8. Burner is suitable for use on push, push-pull or pull through type systems.

9. Maximum tube diameter 9.25 Inches (235mm). For tubes exceeding this diameter, an auxilliary tube is required; consult Hauck.

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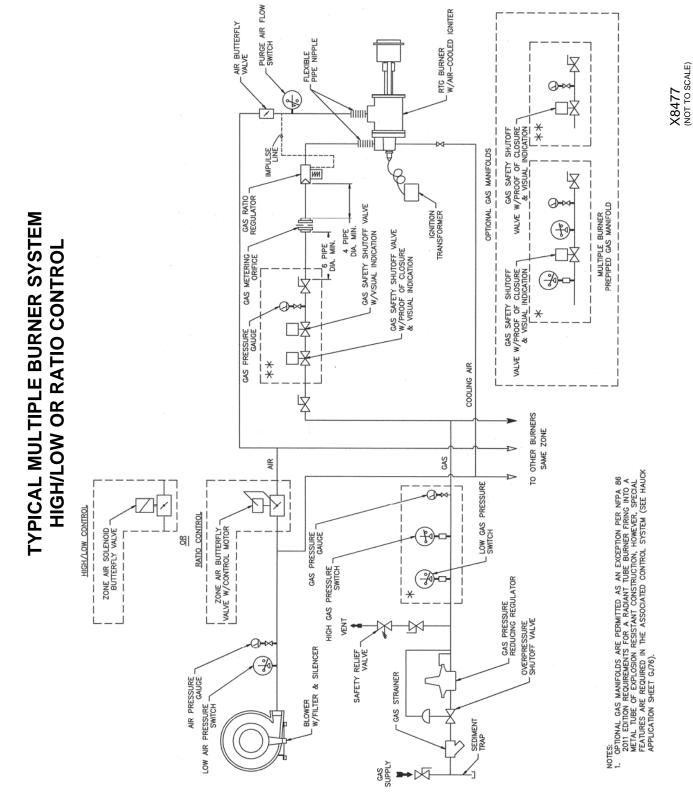
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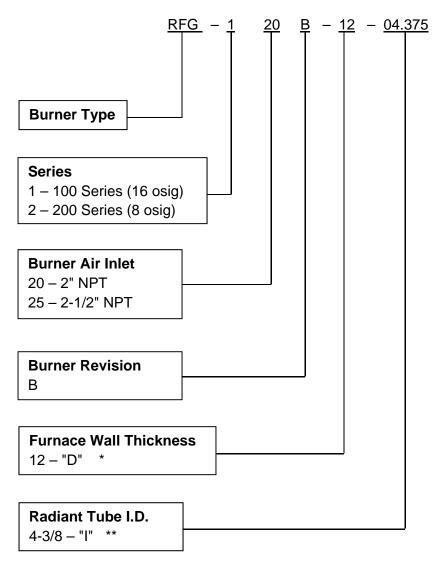


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RFG-4.4



ORDERING INFORMATION



* Wall thickness available from 9-24 inches

** Tube ID available for RFG_20 of 4-7½" RFG_25 of 4¼-9¼"

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