



NATURAL GAS OPERATION

BBG 1000 AND 2000 SERI	ES	BURNER MODEL						
SPECIFICATIONS		xx04	xx06	xx08	xx10	xx12		
Capacity	(MMBTU/hr)	3.1	6.1	12	19	26		
Capacity	(kW)	820	1,610	3,170	5,050	6,770		
Air Capacity	(scfh)	32,000	63,500	124,500	198,000	265,000		
All Capacity	(nm ³ /hr)	857	1,701	3,335	5,304	7,099		
Air Inlet Pressure	(in.w.c.)	27.7	27.7	27.7	27.7	27.7		
All Illet Plessure	(mbar)	68.9	68.9	68.9	68.9	68.9		
Gas Inlet Pressure	(in.w.c.)	1.5	11.6	12.0	3.7	5.8		
Gas Iniel Flessule	(mbar)	3.7	28.9	29.9	9.2	14.4		
Elomo Longth	(ft)	5.8	8.0	10.0	12.0	14.0		
Flame Length	(m)	1.8	2.4	3.0	3.7	4.3		
Flame Diameter	(ft)	1.5	2.0	3.0	4.0	4.0		
	(m)	0.5	0.6	0.9	1.2	1.2		

BBG 1000 AND 2000 SERI	ES	BURNER MODEL					
SPECIFICATIONS		xx14	xx18	xx20	xx24		
Capacity	(MMBTU/hr)	38	65	87	123		
Capacity	(kW)	10,130	17,110	23,010	32,530		
Air Capacity	(scfh)	397,000	670,000	898,025	1,275,000		
All Capacity	(nm ³ /hr)	10,635	17,948	24,056	34,155		
Air Inlet Pressure	(in.w.c.)	27.7	27.7	27.7	27.7		
All Inlet Pressure	(mbar)	68.9	68.9	68.9	68.9		
Gas Inlet Pressure	(in.w.c.)	1.5	11.8	2.2	2.9		
Gas inlet Plessure	(mbar)	3.7	29.4	5.5	7.1		
Flame Length	(ft)	15.0	17.0	18.0	25.0		
	(m)	4.6	5.2	5.5	7.6		
Flame Diameter	(ft)	4.5	5.0	4.5	5.0		
	(m)	1.4	1.5	1.4	1.5		

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 10% excess air.

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 combustion tile.

5. Burner is suitable for use on gaseous fuels other than Natural Gas and with combustion air other than ambient temperature, consult Hauck.

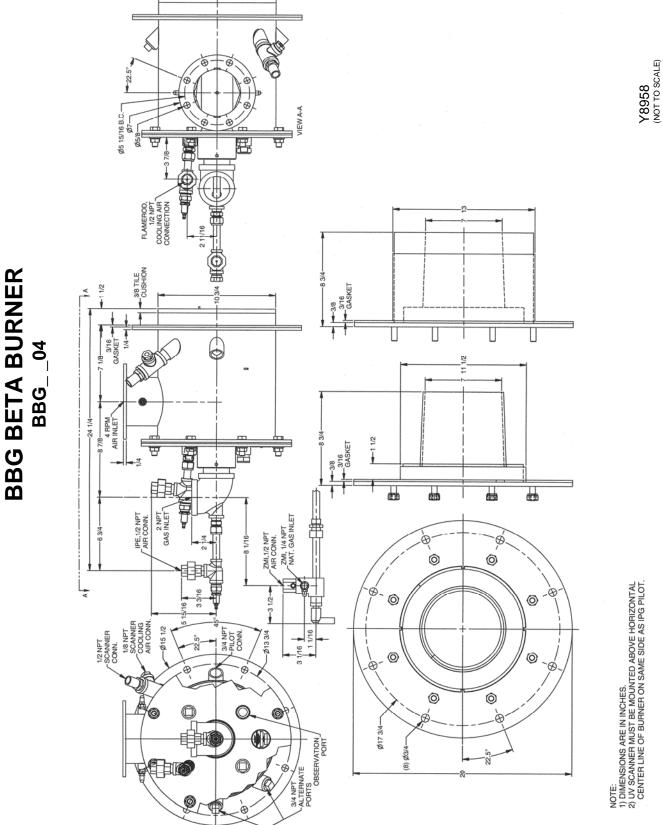
In accordance with Hauck's commitment to Total Quality Improvement, Hauck reserves the right to change the specifications of products without prior notice.

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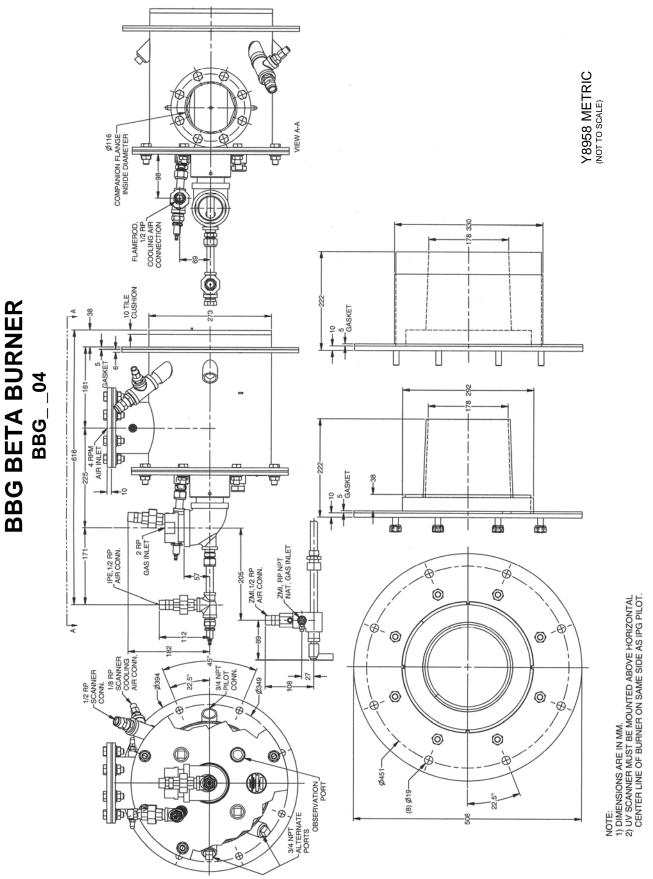


(See Reverse Side For Metric Dimensions)

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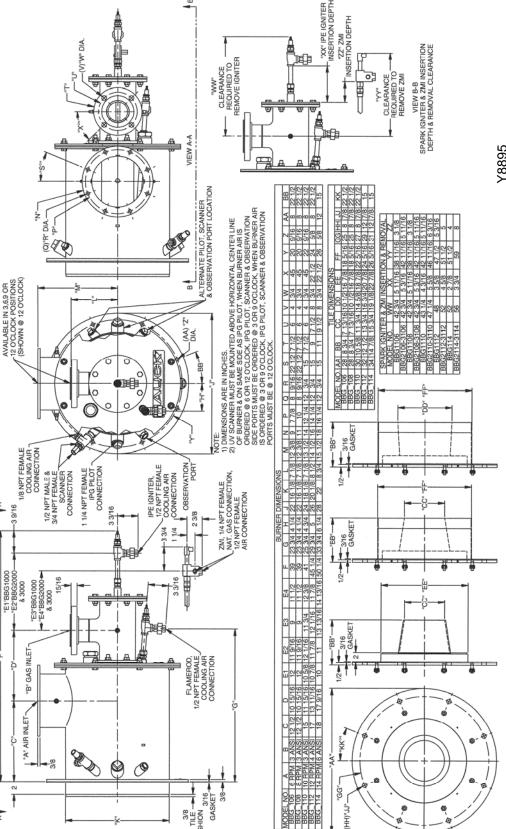
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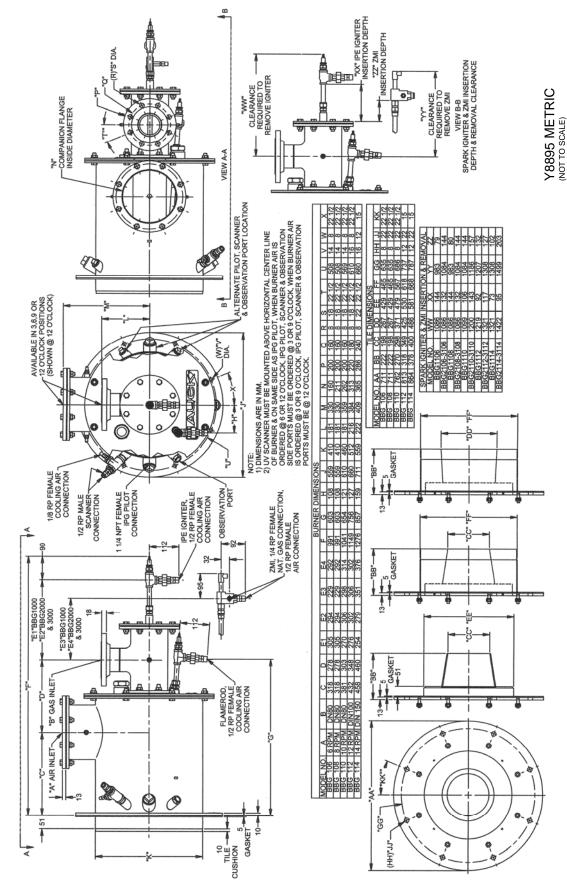
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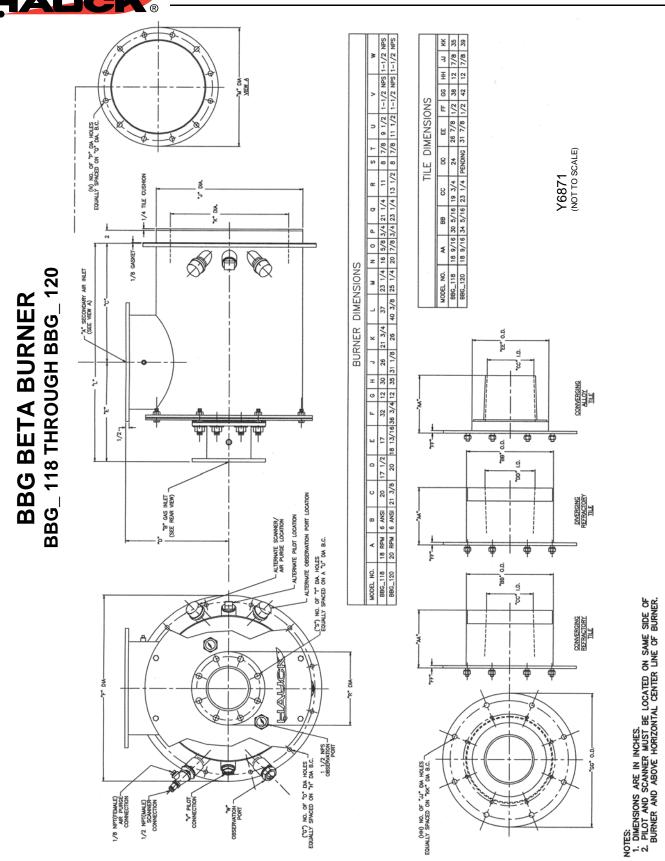


METRIC DIMENSIONS



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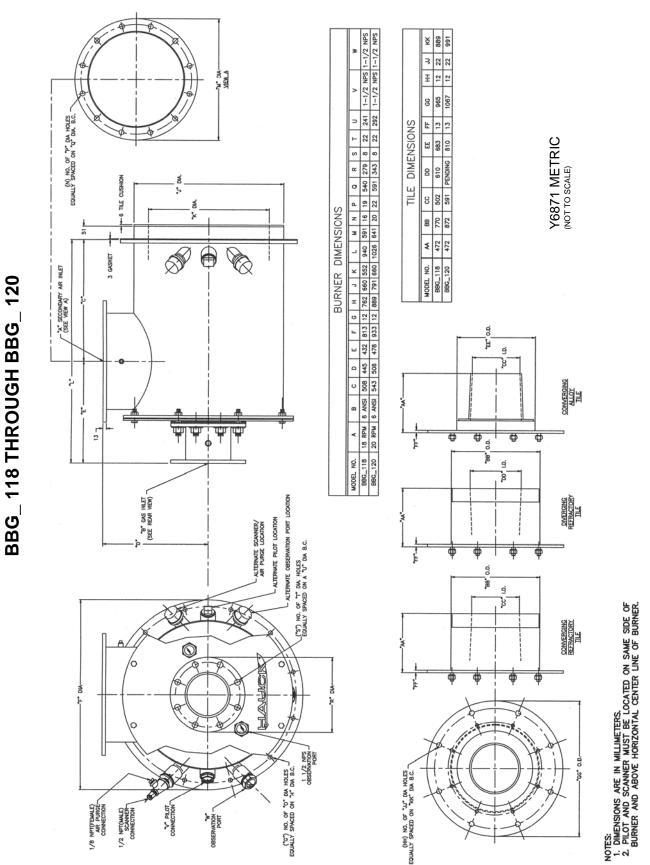
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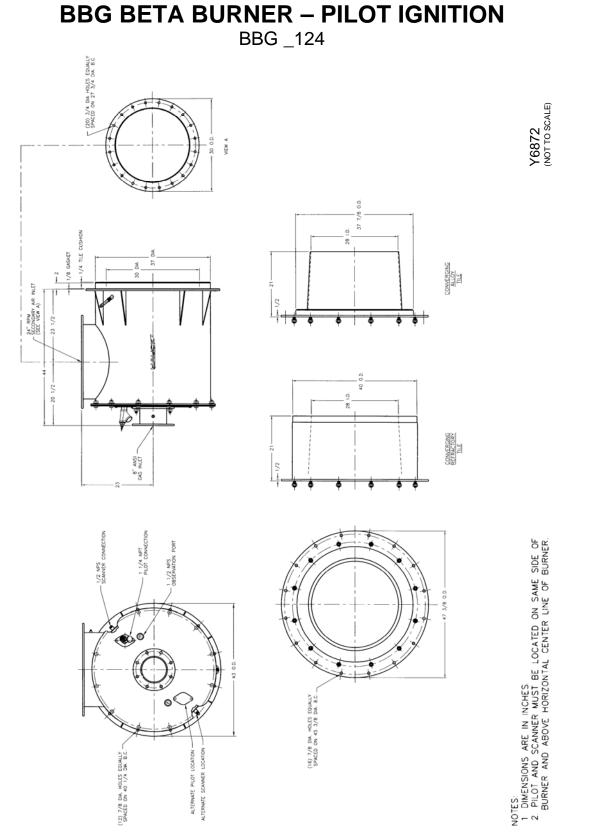
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METRIC DIMENSIONS



BBG BETA BURNER



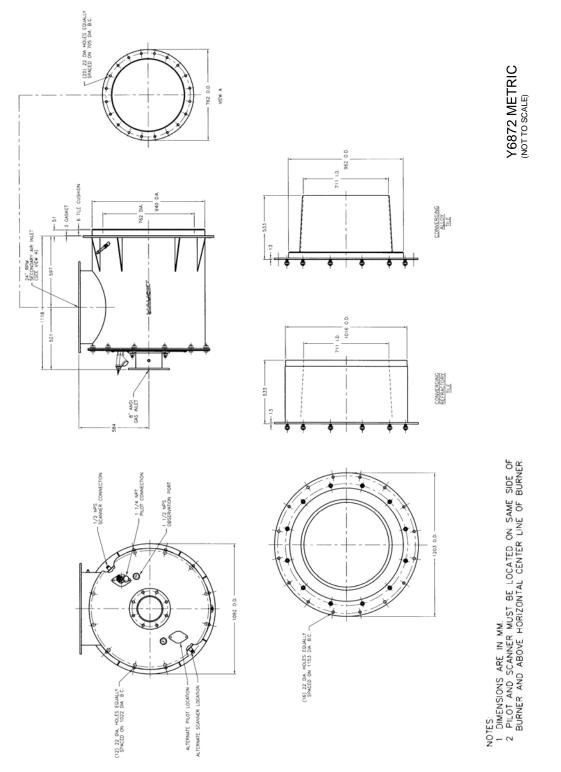


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METRIC DIMENSIONS







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Burner Capacity Information, BBG 1004/2004

NATURAL GAS, AMBIENT COMBUSTION AIR OPERATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 10% Excess Air)	(BTU/hr)	320,000	1,550,000	2,200,000	2,690,000	3,090,000	
Capacity (at 10% Excess All)	(kW)	80	410	580	710	820	
Air Capacity	(scfh)	3,320	16,100	22,800	27,900	32,000	
All Capacity	(nm ³ /hr)	89	431	611	747	857	
Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7	
All Inlet i lessure	(mbar)	0.7	17.2	34.5	51.7	68.9	
Gas Inlet Pressure	(in.w.c.)	0.1	0.5	0.9	1.3	1.5	
Cas inlet i lessure	(mbar)	0.1	1.2	2.2	3.1	3.7	
Flame Length (at 10% Excess Air)	(in)	30	40	55	65	70	
I lame Lengtin (at 10% Excess All)	(mm)	760	1020	1400	1650	1780	
Flame Diameter (at 10% Excess Air)	(in)	10	15	15	20	20	
	(mm)	250	380	380	510	510	
Maximum Operating Excess	(Air)	100%	400%	600%	600%	600%	
	(Fuel)	30%	30%	30%	30%	30%	
Maximum Ignition Gas	(scfh)	450	2,250	N/R	N/R	N/R	
Maximum Ignition Gas	(nm ³ /hr)	12.1	60.3	N/R	N/R	N/R	
Minimum Ignition Gas	(scfh)	175	425	N/R	N/R	N/R	
Ivin in turn ignition Gas	(nm ³ /hr)	4.7	11.4	N/R	N/R	N/R	

Burner Capacity Information, BBG 3004 NATURAL GAS, 900°F/482°C PREHEATED COMBUSTION AIR OPERATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 10% Excess Air)	(BTU/hr)	200,000	960,000	1,400,000	1,710,000	1,980,000	
Capacity (at 10% Excess All)	(kW)	50	250	370	450	520	
Air Capacity	(scfh)	2,055	9,975	14,500	17,750	20,525	
All Capacity	(nm ³ /hr)	55	267	388	475	550	
Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7	
All Inlet Flessure	(mbar)	0.7	17.2	34.5	51.7	68.9	
Gas Inlet Pressure	(in.w.c.)	0.0	0.4	0.7	0.9	1.1	
Oas met l'lessure	(mbar)	0.1	0.9	1.7	2.4	2.8	
Flame Length (at 10% Excess Air)	(in)	25	30	35	35	40	
I lame Lengtin (at 10% Excess All)	(mm)	640	760	890	890	1020	
Flame Diameter (at 10% Excess Air)	(in)	10	10	15	15	15	
Traffic Diameter (at 10% Excess All)	(mm)	250	250	380	380	380	
Maximum Operating Excess	(Air)	100%	350%	500%	500%	500%	
	(Fuel)	30%	30%	30%	30%	30%	
Maximum Ignition Gas	(scfh)	275	725	1,450	N/R	N/R	
Maximum Ignition Cas	(nm ³ /hr)	7.4	19.4	38.8	N/R	N/R	
Minimum Ignition Gas	(scfh)	110	175	275	N/R	N/R	
Minimum Ignition Gas	(nm ³ /hr)	2.9	4.7	7.4	N/R	N/R	

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 10% excess air.

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 combustion tile.

5. Flame detection via UV scanner.

6. Ignition limits are established with (1) IPG5411 gas pilot, (2) IPE50 spark igniter, and (3) ZMI 16 gas pilot; with 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 and with combustion air other than ambient temperature,

consult Hauck.

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Burner Capacity Information, BBG 1006/2006

NATURAL GAS, AMBIENT COMBUSTION AIR OPERATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 10% Excess Air)	(BTU/hr)	650,000	3,140,000	4,330,000	5,260,000	6,130,000	
Capacity (at 10% Excess Air)	(kW)	170	830	1,150	1,390	1,620	
Air Capacity	(scfh)	6,750	32,500	44,825	54,500	63,500	
	(nm ³ /hr)	181	871	1,201	1,460	1,701	
Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7	
All Inlet Flessure	(mbar)	0.7	17.2	34.5	51.7	68.9	
Gas Inlet Pressure	(in.w.c.)	0.1	2.7	5.6	8.6	11.6	
Gas inlet Flessure	(mbar)	0.2	6.7	13.9	21.3	28.8	
Flame Length (at 10% Excess Air)	(in)	36	72	84	90	96	
Tiame Lengtin (at 10% Excess Air)	(mm)	910	1830	2130	2290	2440	
Flame Diameter (at 10% Excess Air)	(in)	18	20	20	24	24	
	(mm)	460	510	510	610	610	
Maximum Operating Excess	(Air)	200%	400%	400%	400%	400%	
	(Fuel)	30%	30%	30%	30%	30%	
Maximum Ignition Gas	(scfh)	975	4,500	N/R	N/R	N/R	
Maximum ignition Gas	(nm ³ /hr)	26.1	120.5	N/R	N/R	N/R	
Minimum Ignition Gas	(scfh)	425	750	N/R	N/R	N/R	
Winning Indon Gas	(nm ³ /hr)	11.4	20.1	N/R	N/R	N/R	

Burner Capacity Information, BBG 3006

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SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 10% Excess Air)	(BTU/hr)	400,000	1,950,000	2,680,000	3,250,000	3,800,000	
Capacity (at 10% Excess All)	(kW)	110	520	710	860	1,010	
Air Capacity	(scfh)	4,152	20,225	27,750	33,715	39,325	
	(nm ³ /hr)	111	542	743	903	1,053	
Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7	
All Inlet i lessure	(mbar)	0.7	17.2	34.5	51.7	68.9	
Gas Inlet Pressure	(in.w.c.)	0.1	2.0	4.2	6.5	8.8	
Cas inlet i ressure	(mbar)	0.2	5.1	10.5	16.1	21.9	
Flame Length (at 10% Excess Air)	(in)	25	30	35	45	55	
Tiame Length (at 10% Excess All)	(mm)	640	760	890	1140	1400	
Flame Diameter (at 10% Excess Air)	(in)	15	20	20	20	25	
Tiame Diameter (at 10% Excess All)	(mm)	380	510	510	510	640	
Maximum Operating Excess	(Air)	150%	300%	300%	300%	300%	
	(Fuel)	30%	30%	30%	30%	30%	
Maximum Ignition Gas	(scfh)	600	2,950	N/R	N/R	N/R	
Maximum ignition Gas	(nm ³ /hr)	16.1	79.0	N/R	N/R	N/R	
Minimum Ignition Gas	(scfh)	185	525	N/R	N/R	N/R	
Winning Indon Gas	(nm ³ /hr)	5.0	14.1	N/R	N/R	N/R	

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 10% excess air.

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 combustion tile.

5. Flame detection via UV scanner or flame rod (1000 series only).

6. Ignition limits are established with (1) IPG5413 gas pilot, (2) IPE50 spark igniter, and (3) ZMI 16 gas pilot; with 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 and with combustion air other than ambient temperature, consult Hauck.

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Burner Capacity Information, BBG 1008/2008

SPECIFICATIONS		OPERATIONAL INFORMATION					
	(BTU/hr)	1,211,000	5,991,000	8,507,000	10,486,000	12,015,000	
Capacity (at 10% Excess Air)	(kW)	320	1,580	2,250	2,770	3,180	
Air Capacity	(scfh)	12,550	62,075	88,150	108,650	124,500	
All Capacity	(nm ³ /hr)	336	1,663	2,361	2,911	3,335	
Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7	
All IIIlet Flessule	(mbar)	0.7	17.2	34.5	51.7	68.9	
Gas Inlet Pressure	(in.w.c.)	0.1	3.2	6.4	9.3	12.2	
Gas Illier Flessule	(mbar)	0.3	8.0	15.9	23.1	30.4	
Flame Length (at 10% Excess Air)	(in)	60	84	96	108	120	
Flame Length (at 10% Excess Alr)	(mm)	1520	2130	2440	2740	3050	
Flome Diameter () (201 5	(in)	24	30	30	36	36	
Flame Diameter (at 10% Excess Air)	(mm)	610	760	760	910	910	
Maximum Operating Excess	(Air)	300%	500%	500%	600%	600%	
Maximum Operating Excess	(Fuel)	30%	30%	30%	30%	30%	
Maximum Ignition Gas	(scfh)	1,800	9,000	N/R	N/R	N/R	
Maximum Ignition Gas	(nm ³ /hr)	48.2	241.1	N/R	N/R	N/R	
Minimum Ignition Cos	(scfh)	375	1,100	N/R	N/R	N/R	
Minimum Ignition Gas	(nm ³ /hr)	10.0	29.5	N/R	N/R	N/R	

NATURAL GAS, AMBIENT COMBUSTION AIR OPERATION

Burner Capacity Information, BBG 3008 NATURAL GAS, 900°F/482°C PREHEATED COMBUSTION AIR OPERATION

SPECIFICATIONS		OPERATIONAL INFORMATION						
Capacity (at 10% Excess Air)	(BTU/hr)	750,000	3,708,000	5,269,000	6,493,000	7,438,000		
Capacity (at 10% Excess All)	(kW)	200	980	1,390	1,720	1,970		
Air Capacity	(scfh)	7,775	38,425	54,600	67,275	77,075		
	(nm ³ /hr)	208	1,029	1,463	1,802	2,065		
Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7		
All Inter l'lessure	(mbar)	0.7	17.2	34.5	51.7	68.9		
Gas Inlet Pressure	(in.w.c.)	0.1	2.3	4.6	6.8	9.1		
Cas met l'lessure	(mbar)	0.2	5.7	11.3	17.0	22.6		
Flame Length (at 10% Excess Air)	(in)	48	60	72	78	84		
Tiame Lengtin (at 10% Excess All)	(mm)	1220	1520	1830	1980	2130		
Flame Diameter (at 10% Excess Air)	(in)	24	24	30	30	36		
Tiame Diameter (at 10% Excess All)	(mm)	610	610	760	760	910		
Maximum Operating Excess	(Air)	250%	400%	400%	500%	500%		
	(Fuel)	30%	30%	30%	30%	30%		
Maximum Ignition Gas	(scfh)	1,100	5,500	N/R	N/R	N/R		
Maximum Ignition Gas	(nm ³ /hr)	29.5	147.3	N/R	N/R	N/R		
Minimum Ignition Gas	(scfh)	250	800	N/R	N/R	N/R		
Winning Indon Gas	(nm ³ /hr)	6.7	21.4	N/R	N/R	N/R		

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 10% excess air.

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 combustion tile.

5. Flame detection via UV scanner or flame rod (1000 series only).

6. Ignition limits are established with (1) IPG5413 gas pilot, (2) IPE50 spark igniter, and (3) ZMI 16 gas pilot; with 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 and with combustion air other than ambient temperature, consult Hauck.

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Burner Capacity Information, BBG 1010/2010

NATURAL GAS, AMBIENT COMBUSTION AIR OPERATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 10% Funded Air)	(BTU/hr)	2,220,000	9,460,000	13,220,000	16,310,000	19,110,000	
Capacity (at 10% Excess Air)	(kW)	590	2,500	3,500	4,310	5,050	
Air Capacity	(scfh)	23,000	98,000	137,000	169,000	198,000	
All Capacity	(nm ³ /hr)	616	2,625	3,670	4,527	5,304	
Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7	
All IIIel Flessure	(mbar)	0.7	17.2	34.5	51.7	68.9	
Gas Inlet Pressure	(in.w.c.)	0.1	1.2	2.2	3.0	3.7	
Gas inlet Flessure	(mbar)	0.2	3.1	5.3	7.4	9.3	
Flame Length (at 10% Excess Air)	(in)	72	108	120	132	144	
Tiame Lengtin (at 10% Excess Air)	(mm)	1830	2740	3050	3350	3660	
Flame Diameter (at 10% Excess Air)	(in)	36	42	48	48	48	
	(mm)	910	1070	1220	1220	1220	
Maximum Operating Excess	(Air)	300%	500%	500%	600%	600%	
	(Fuel)	30%	30%	30%	30%	30%	
Maximum Ignition Gas	(scfh)	3,250	14,250	N/R	N/R	N/R	
Maximum Ignition Gas	(nm ³ /hr)	87.1	381.7	N/R	N/R	N/R	
Minimum Ignition Gas	(scfh)	600	1,700	N/R	N/R	N/R	
Winning Indon Gas	(nm ³ /hr)	16.1	45.5	N/R	N/R	N/R	

Burner Capacity Information, BBG 3010 NATURAL GAS, 900°F/482°C PREHEATED COMBUSTION AIR OPERATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 10% Excess Air)	(BTU/hr)	1,370,000	5,850,000	8,170,000	10,090,000	11,800,000	
Capacity (at 10% Excess All)	(kW)	360	1,550	2,160	2,670	3,120	
Air Capacity	(scfh)	14,205	60,575	84,650	104,600	122,315	
	(nm ³ /hr)	381	1,623	2,268	2,802	3,277	
Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7	
All Illet Flessure	(mbar)	0.7	17.2	34.5	51.7	68.9	
Gas Inlet Pressure	(in.w.c.)	0.1	0.9	1.6	2.3	2.8	
Gas inlet Flessure	(mbar)	0.2	2.3	4.1	5.6	7.1	
Flame Length (at 10% Excess Air)	(in)	60	84	90	96	108	
Tiame Lengtin (at 10% Excess All)	(mm)	1520	2130	2290	2440	2740	
Flame Diameter (at 10% Excess Air)	(in)	36	42	42	48	48	
Tiame Diameter (at 10% Excess All)	(mm)	910	1070	1070	1220	1220	
Maximum Operating Excess	(Air)	250%	400%	400%	500%	500%	
	(Fuel)	30%	30%	30%	30%	30%	
Maximum Ignition Gas	(scfh)	2,050	8,800	N/R	N/R	N/R	
Maximum Ignition Gas	(nm ³ /hr)	54.9	235.7	N/R	N/R	N/R	
Minimum Ignition Gas	(scfh)	450	1,300	N/R	N/R	N/R	
Winning Indon Gas	(nm ³ /hr)	12.1	34.8	N/R	N/R	N/R	

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 10% excess air.

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 combustion tile.

5. Flame detection via UV scanner or flame rod (1000 series only).

6. Ignition limits are established with (1) IPG5413 gas pilot, (2) IPE50 spark igniter, and (3) ZMI 16 gas pilot; with 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 and with combustion air other than ambient temperature, 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.

HAUCK MANUFACTURING CO., 100 North Harris Street Cleona, PA 17042 717-272-3051

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Burner Capacity Information, BBG 1012/2012

NATURAL GAS, AMBIENT COMBUSTION AIR OPERATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 10% Excess Air)	(BTU/hr)	2,650,000	12,790,000	18,070,000	22,200,000	25,570,000	
Capacity (at 10% Excess Air)	(kW)	700	3,380	4,780	5,870	6,760	
Air Capacity	(scfh)	27,500	132,500	187,250	230,000	265,000	
	(nm ³ /hr)	737	3,549	5,016	6,161	7,099	
Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7	
All Inlet i lessure	(mbar)	0.7	17.2	34.5	51.7	68.9	
Gas Inlet Pressure	(in.w.c.)	0.1	1.8	3.2	4.6	5.8	
Cas inlet i lessure	(mbar)	0.2	4.5	8.0	11.4	14.4	
Flame Length (at 10% Excess Air)	(in)	72	120	144	156	168	
Tiame Lengtin (at 10% Excess All)	(mm)	1830	3050	3660	3960	4270	
Flame Diameter (at 10% Excess Air)	(in)	36	42	42	48	48	
Tiame Diameter (at 10% Excess Air)	(mm)	910	1070	1070	1220	1220	
Maximum Operating Excess	(Air)	300%	500%	500%	500%	500%	
	(Fuel)	30%	30%	30%	30%	30%	
Maximum Ignition Gas	(scfh)	3,750	19,000	N/R	N/R	N/R	
Maximum Ignition Gas	(nm ³ /hr)	100.5	509.0	N/R	N/R	N/R	
Minimum Ignition Gas	(scfh)	750	2,300	N/R	N/R	N/R	
Winning Indon Gas	(nm ³ /hr)	20.1	61.6	N/R	N/R	N/R	

Burner Capacity Information, BBG 3012 NATURAL GAS. 900°F/482°C PREHEATED COMBUSTION AIR OPERATION

SPECIFICATIONS			OPERAT	IONAL INFO	ORMATION	
Capacity (at 10% Excess Air)	(BTU/hr)	1,630,000	7,910,000	11,180,000	13,700,000	15,830,000
Capacity (at 10% Excess All)	(kW)	430	2,090	2,960	3,620	4,190
Air Consoity	(scfh)	16,900	81,925	115,850	142,000	164,000
Air Capacity	(nm ³ /hr)	453	2,195	3,103	3,804	4,393
Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7
All Inlet Flessure	(mbar)	0.7	17.2	34.5	51.7	68.9
Gas Inlet Pressure	(in.w.c.)	0.1	1.4	2.4	3.5	4.4
Gas Inier Flessure	(mbar)	0.2	3.4	6.0	8.7	10.9
Flame Length (at 10% Excess Air)	(in)	66	96	108	120	132
Tiame Lengtin (at 10% Excess Air)	(mm)	1680	2440	2740	3050	3350
Flame Diameter (at 10% Excess Air)	(in)	36	42	42	48	48
Tiame Diameter (at 10% Excess Air)	(mm)	910	1070	1070	1220	1220
Maximum Operating Excess	(Air)	250%	400%	400%	400%	400%
Maximum Operating Excess	(kW) 430 2,990 2,960 3,620 (scfh) 16,900 81,925 115,850 142,000 (mm ³ /hr) 453 2,195 3,103 3,804 (in.w.c.) 0.3 6.9 13.9 20.8 (mbar) 0.7 17.2 34.5 51.7 (in.w.c.) 0.1 1.4 2.4 3.5 (mbar) 0.2 3.4 6.0 8.7 (in) 66 96 108 120 (mm) 1680 2440 2740 3050 (in) 36 42 42 48 (mm) 910 1070 1070 1220	30%				
Maximum Ignition Gas	(scfh)	2,400	2,400 11,500		N/R	N/R
Maximum Ignition Gas	(nm ³ /hr)	64.3	308.1	N/R	N/R	N/R
Minimum Ignition Gas	(scfh)	500	1,700	N/R	N/R	N/R
Winning Indon Gas	(nm ³ /hr)	13.4	45.5	N/R	N/R	N/R

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 10% excess air.

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 combustion tile.

5. Flame detection via UV scanner.

6. Ignition limits are established with (1) IPG5413 gas pilot, (2) IPE50 spark igniter, and (3) ZMI 16 gas pilot; with 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 and with combustion air other than ambient temperature, consult Hauck.

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Burner Capacity Information, BBG 1114/2114

NATURAL GAS, AMBIENT COMBUSTION AIR OPERATION

SPECIFICATIONS			OPERAT	IONAL INFO	ORMATION	
Capacity (at 10% Funded Air)	(BTU/hr)	3,860,000	19,110,000	27,000,000	33,200,000	38,300,000
Capacity (at 10% Excess Air)	(kW)	1,020	5,050	7,140	8,780	10,130
Air Capacity	(scfh)	40,000	198,000	280,000	343,500	397,000
	(nm ³ /hr)	1,072	5,304	7,501	9,202	10,635
Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7
All Inlet Flessure	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	68.9				
Gas Inlet Pressure	(in.w.c.)	0.3	0.8	1.1	1.3	1.5
Gas inlet Flessure	(mbar)	0.6	2.0	2.7	3.2	3.7
Flame Length (at 10% Excess Air)	(in)	84	120	154	168	180
Tiame Lengtin (at 10% Excess Air)	(mm)	2130	3050	3910	4270	4570
Flame Diameter (at 10% Excess Air)	(in)	36	48	48	54	54
Flame Diameter (at 10% Excess Air)	(mm)	910	1220	1220	1370	1370
Maximum Operating Excess	(Air)	200%	400%	400%	500%	500%
	(Fuel)	30%	30%	30%	30%	30%
Maximum Ignition Gas	(scfh)	5,500	27,500	N/R	N/R	N/R
Maximum ignition Gas	(nm ³ /hr)	147.3	736.7	N/R	N/R	N/R
Minimum Ignition Gas	(scfh)	1,400	4,100	N/R	N/R	N/R
Winning Indon Gas	(nm ³ /hr)	37.5	109.8	N/R	N/R	N/R

Burner Capacity Information, BBG 3114 NATURAL GAS, 900°F/482°C PREHEATED COMBUSTION AIR OPERATION

SPECIFICATIONS			OPERAT	IONAL INFO	ORMATION	
Capacity (at 10% Excess Air)	(BTU/hr)	2,490,000	12,060,000	17,100,000	20,900,000	24,200,000
Capacity (at 10% Excess All)	(kW)	660	3,190	4,520	5,530	6,400
Air Capacity	(scfh)	25,750	125,000	177,000	216,750	250,375
	(nm ³ /hr)	690	3,349	4,741	5,806	6,707
Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7
	(mbar)	0.7	17.2	34.5	51.7	68.9
Gas Inlet Pressure	(in.w.c.)	0.2	0.6	0.8	1.0	1.1
Ous micri ressure	(mbar)	0.5	1.5	2.1	2.5	2.8
Flame Length (at 10% Excess Air)	(in)	72	96	108	120	132
	(mm)	1830	2440	2740	3050	3350
Flame Diameter (at 10% Excess Air)	(in)	36	48	48	54	54
	(mm)	910	1220	1220	1370	1370
Maximum Operating Excess	(Air)	150%	300%	300%	400%	400%
	(Fuel)	30%	30%	30%	30%	30%
Maximum Ignition Gas	(scfh)	3,500	18,000	N/R	N/R	N/R
	(nm ³ /hr)	93.8	482.2	N/R	N/R	N/R
Minimum Ignition Gas	(scfh)	1,100	3,000	N/R	N/R	N/R
Minimum Ignition Cas	(nm ³ /hr)	29.5	80.4	N/R	N/R	N/R

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 10% excess air.

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 combustion tile.

5. Flame detection via UV scanner.

6. Ignition limits are established with Hauck IPG5413 gas pilot, metered air and fuel flows and 5kV/15mA spark ignition transformer; for limits listed as N/R ignition is Not Recommended at this capacity and under other conditions consult Hauck.

7 Burner is suitable for use on gaseous fuels other than Natural Gas and with combustion air other than ambient temperature, 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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Burner Capacity Information, BBG 1118/2118

NATURAL GAS, AMBIENT COMBUSTION AIR OPERATION

SPECIFICATIONS		OPERATIONAL INFORMATION				
Capacity (at 10% Funded Air)	(BTU/hr)	6,660,000	32,330,000	45,800,000	56,000,000	64,700,000
Capacity (at 10% Excess Air)	(kW)	1,760	8,550	12,110	14,810	17,110
Air Capacity	(scfh)	69,000	335,000	474,500	580,000	670,000
	(nm ³ /hr)	1,848	8,974	12,711	15,537	17,948
Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7
All Inlet i lessure	(mbar)	0.7	17.2	34.5	51.7	68.9
Gas Inlet Pressure	(in.w.c.)	0.3	3.7	6.6	9.3	11.8
Cas inlet i lessure	(mbar)	0.6	9.2	16.4	23.1	29.4
Flame Length (at 10% Excess Air)	(in)	72	168	180	192	204
Tiame Lengtin (at 10% Excess All)	(mm)	1830	4270	4570	4880	5180
Flame Diameter (at 10% Excess Air)	(in)	36	48	48	54	60
Tiame Diameter (at 10% Excess All)	(mm)	910	1220	1220	1370	1520
Maximum Operating Excess	(Air)	250%	400%	500%	600%	600%
	(Fuel)	BTU/hr) 6,660,000 32,330,000 45,800,000 56,000,000 6 (kW) 1,760 8,550 12,110 14,810 6 (scfh) 69,000 335,000 474,500 580,000 6 (mm³/hr) 1,848 8,974 12,711 15,537 6 (in.w.c.) 0.3 6.9 13.9 20.8 6 (mbar) 0.7 17.2 34.5 51.7 6 (mbar) 0.6 9.2 16.4 23.1 6 (in) 72 168 180 192 6 (ini) 36 48 48 54 6 (ini) 36 48 48 54 60% (ini) 36 48 48 54 60% (ini) 36% 400% 500% 600% 60% (kir) 250% 400% 500% 600% 60% (kir) 30% 30%	30%			
Maximum Ignition Gas	(scfh)	10,000	45,000	N/R	N/R	N/R
Maximum Ignition Gas	(nm ³ /hr)	267.9	1,205.5	NR	N/R	N/R
Minimum Ignition Gas	(scfh)	2,100	6,900	N/R	N/R	N/R
Winning Indian Gas	(nm ³ /hr)	56.3	184.8	NR	N/R	N/R

Burner Capacity Information, BBG 3118

NATURAL GAS, 900°F/482°C PREHEATED COMBUSTION AIR OPERATION

SPECIFICATIONS			OPERAT	IONAL INFO	ORMATION	
Capacity (at 10% Excess Air)	(BTU/hr)	3,940,000	19,070,000	27,000,000	33,100,000	38,300,000
Capacity (at 10% Excess All)	(kW)	1,040	5,040	7,140	8,750	10,130
Air Capacity	(scfh)	40,800	197,600	280,000	343,000	396,400
	(nm ³ /hr)	1,093	5,293	7,501	9,188	10,619
Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7
All IIIel Flessure	(mbar)	0.7	17.2	34.5	51.7	68.9
Gas Inlet Pressure	(in.w.c.)	0.2	2.8	5.0	7.1	9.0
Gas inlet Flessure	(mbar)	0.5	6.9	12.5	17.6	22.3
Flame Length (at 10% Excess Air)	(in)	72	132	144	156	168
Tiame Lengtin (at 10% Excess All)	(mm)	1830	3350	3660	3960	4270
Flame Diameter (at 10% Excess Air)	(in)	36	48	48	48	54
Tiame Diameter (at 10% Excess Air)	(mm)	910	1220	1220	1220	1370
Maximum Operating Excess	(Air)	200%	300%	400%	500%	500%
	(Fuel)	W) 1,040 5,040 7,140 8,750 cfh) 40,800 197,600 280,000 343,000 ³ /hr) 1,093 5,293 7,501 9,188 w.c.) 0.3 6.9 13.9 20.8 bar) 0.7 17.2 34.5 51.7 w.c.) 0.2 2.8 5.0 7.1 bar) 0.5 6.9 12.5 17.6 m) 72 132 144 156 nm) 1830 3350 3660 3960 n) 36 48 48 48 am) 910 1220 1220 1220 xir) 200% 300% 400% 500% auel) 30% 30% 30% 30% off) 5,500 27,500 N/R N/R s ³ /hr) 147.3 736.7 N/R N/R	30%			
Maximum Ignition Gas	(scfh)	5,500	27,500	N/R	N/R	N/R
Maximum Ignition Gas	(nm ³ /hr)	147.3	736.7	N/R	N/R	N/R
Minimum Ignition Gas	(scfh)	1,400	5,000	N/R	N/R	N/R
Winning Indon Gas	(nm ³ /hr)	37.5	133.9	N/R	N/R	N/R

NOTES:

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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 10% excess air.

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 combustion tile.

5. Flame detection via UV scanner.

6. Ignition limits are established with Hauck IPG5413 gas pilot, metered air and fuel flows and 5kV/15mA spark ignition transformer; for limits listed as N/R ignition is Not Recommended at this capacity and under other conditions consult Hauck.

7 Burner is suitable for use on gaseous fuels other than Natural Gas and with combustion air other than ambient temperature, consult Hauck.

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Burner Capacity Information, BBG 1120/2120

NATURAL GAS, AMBIENT COMBUSTION AIR OPERATION

SPECIFICATIONS		OPERATIONAL INFORMATION				
Capacity (at 10% Excess Air)	(BTU/hr)	9,000,000	43,330,000	61,300,000	75,000,000	86,700,000
Capacity (at 10% Excess Air)	(kW)	2,380	11,460	16,210	19,840	22,930
Air Capacity	(scfh)	93,288	449,013	635,000	776,780	898,025
	(nm ³ /hr)	2,499	12,028	17,010	20,808	24,056
Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7
All Illet I lessure	(mbar)	0.7	17.2	34.5	51.7	68.9
Gas Inlet Pressure	(in.w.c.)	0.1	0.6	1.1	1.7	2.2
Gas inlet Flessure	(mbar)	0.1	1.4	2.7	4.1	5.5
Flame Length (at 10% Excess Air)	(in)	48	168	192	192	216
Tiame Lengtin (at 10% Excess Air)	(mm)	1220	4270	4880	4880	5490
Flame Diameter (at 10% Excess Air)	(in)	24	48	48	54	54
	(mm)	610	1220	1220	1370	1370
Maximum Operating Excess	(Air)	250%	500%	600%	700%	800%
	(Fuel)	9,000,000 43,330,000 61,300,000 75,000,000 8 2,380 11,460 16,210 19,840 8 93,288 449,013 635,000 776,780 6 2,499 12,028 17,010 20,808 6 0.3 6.9 13.9 20.8 6 0.7 17.2 34.5 51.7 6 0.1 0.6 1.1 1.7 6 0.1 1.4 2.7 4.1 1 48 168 192 192 1 1220 4270 4880 4880 4880 24 48 48 54 610 1220 1370	30%			
Maximum Ignition Gas	(scfh)	11,268	54,235	N/R	N/R	N/R
Maximum Ignition Gas	(nm ³ /hr)	301.8	1,452.9	NR	N/R	N/R
Minimum Ignition Gas	(scfh)	2,737	7,683	N/R	N/R	N/R
Winning Indon Gas	(nm ³ /hr)	73.3	205.8	NR	N/R	N/R

Burner Capacity Information, BBG 3120 NATURAL GAS, 900°F/482°C PREHEATED COMBUSTION AIR OPERATION

SPECIFICATIONS			OPERAT	IONAL INFO	RMATION	
Capacity (at 10% Excess Air)	(BTU/hr)	5,570,000	26,830,000	37,900,000	46,400,000	53,700,000
Capacity (at 10% Excess All)	(kW)	1,470	7,100	10,020	12,270	14,200
Air Capacity	(scfh)	57,753	277,975	393,116	480,889	555,949
	(nm ³ /hr)	1,547	7,446	10,531	12,882	14,893
Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7
All Inlet i lessure	(mbar)	0.7	17.2	34.5	51.7	68.9
Gas Inlet Pressure	(in.w.c.)	0.0	0.4	0.8	1.3	1.7
Gas milet i ressure	(mbar)	0.1	1.0	2.1	3.1	4.2
Flame Length (at 10% Excess Air)	(in)	72	132	144	156	168
Thame Echgin (at 10% Excess All)	(mm)	1830	3350	3660	3960	4270
Flame Diameter (at 10% Excess Air)	(in)	36	48	48	48	54
Tiame Diameter (at 10% Excess All)	(mm)	910	1220	1220	1220	1370
Maximum Operating Excess	(Air)	325%	463%	602%	741%	741%
	(Fuel)	30%	30%	30%	30%	30%
Maximum Ignition Gas	(scfh)	5,500	27,500	N/R	N/R	N/R
Maximum Ignition Oas	(nm ³ /hr)	147.3	736.7	N/R	N/R	N/R
Minimum Ignition Gas	(scfh)	1,400	5,000	N/R	N/R	N/R
Winning Indon Gas	(nm ³ /hr)	37.5	133.9	N/R	N/R	N/R

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 10% excess air.

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 combustion tile.

5. Flame detection via UV scanner.

 Ignition limits are established with Hauck IPG5413 gas pilot, metered air and fuel flows and 5kV/15mA spark ignition transformer; for limits listed as N/R ignition is Not Recommended at this capacity and under other conditions consult Hauck.

7 Burner is suitable for use on gaseous fuels other than Natural Gas and with combustion air other than ambient temperature, consult Hauck.

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Burner Capacity Information, BBG 1124/2124

NATURAL GAS. AMBIENT COMBUSTION AIR OPERATION

SPECIFICATIONS			OPERAT	IONAL INFO	RMATION	
	(BTU/hr)	12,550,000	61,770,000	87,300,000	106,200,000	123,000,000
Capacity (at 10% Excess Air)	(kW)	3,320	16,340	23,090	28,090	32,530
Air Consoity	(scfh)	130,000	640,000	905,000	1,100,000	1,275,000
Air Capacity	(nm ³ /hr)	3,482	17,144	D 23,090 28,090 0 905,000 1,100,000 4 24,243 29,467 13.9 20.8 34.5 51.7 2.0 2.5 4.9 6.1 275 285 6990 7240 54 60 1370 1520 600% 600% 15% 15% 0 N/R	34,155	
Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7
All Illet i lessure	(mbar)	0.7	17.2	34.5	51.7	68.9
Gas Inlet Pressure	(in.w.c.)	0.3	1.4	2.0	2.5	2.9
Cas met l'lessure	(mbar)	0.6	3.4	4.9	6.1	7.2
Flame Length (at 10% Excess Air)	(in)	72	250	275	285	300
Tiame Lengtin (at 10% Excess All)	(mm)	1830	6350	6990	7240	7620
Flame Diameter (at 10% Excess Air)	(in)	36	48 54		60	60
Tiame Diameter (at 10% Excess All)	(mm)	910	1220	1370	1520	1520
Maximum Operating Excess	(Air)	100%	400%	600%	600%	600%
	(Fuel)	15%	15%	15%	15%	15%
Maximum Ignition Gas	(scfh)	15,000	70,000	N/R	N/R	N/R
Maximum ignition Gas	(nm ³ /hr)	401.8	1,875.2	N/R	N/R	N/R
Minimum Ignition Gas	(scfh)	6,800	13,500	N/R	N/R	N/R
winning incon gas	(nm ³ /hr)	182.2	361.6	N/R	N/R	N/R

Burner Capacity Information, BBG 3124

NATURAL GAS, 900°F/482°C PREHEATED COMBUSTION AIR OPERATION

SPECIFICATIONS			OPERAT	IONAL INFO	RMATION	
Capacity (at 10% Excess Air)	(BTU/hr)	7,890,000	37,350,000	52,800,000	64,800,000	74,800,000
Capacity (at 10% Excess All)	(kW)	2,090	9,880	13,970	17,140	19,780
Air Capacity	(scfh)	81,720	387,000	547,600	671,100	775,200
	(nm ³ /hr)	2,189	10,367	14,669	17,977	20,766
Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7
All Illet i lessure	(mbar)	0.7	17.2	34.5	51.7	68.9
Gas Inlet Pressure	(in.w.c.)	0.2	1.0	1.5	1.9	2.2
Oas inlet i lessure	(mbar)	0.5	2.6	3.7	4.7	5.5
Flame Length (at 10% Excess Air)	(in)	72	96	150	200	250
Tiame Lengtin (at 10% Excess All)	(mm)	1830	2440	3810	5080	6350
Flame Diameter (at 10% Excess Air)	(in)	36	48 48		60	60
Tiame Diameter (at 10% Excess All)	(mm)	910	1220	1220	1520	1520
Maximum Operating Excess	(Air)	100%	300%	500%	500%	500%
	(Fuel)	15%	15%	15%	15%	15%
Maximum Ignition Gas	(scfh)	9,750	40,000	N/R	N/R	N/R
Maximum ignition Gas	(nm ³ /hr)	261.2	1,071.5	N/R	N/R	N/R
Minimum Ignition Gas	(scfh)	4,500	10,000	N/R	N/R	N/R
Winning Indian Gas	(nm ³ /hr)	120.5	267.9	N/R	N/R	N/R

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 10% excess air.

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 combustion tile.

5. Flame detection via UV scanner.

6. Ignition limits are established with Hauck 58155 gas pilot, metered air and fuel flows and 5kV/15mA spark ignition transformer; for limits listed as N/R ignition is Not Recommended at this capacity.

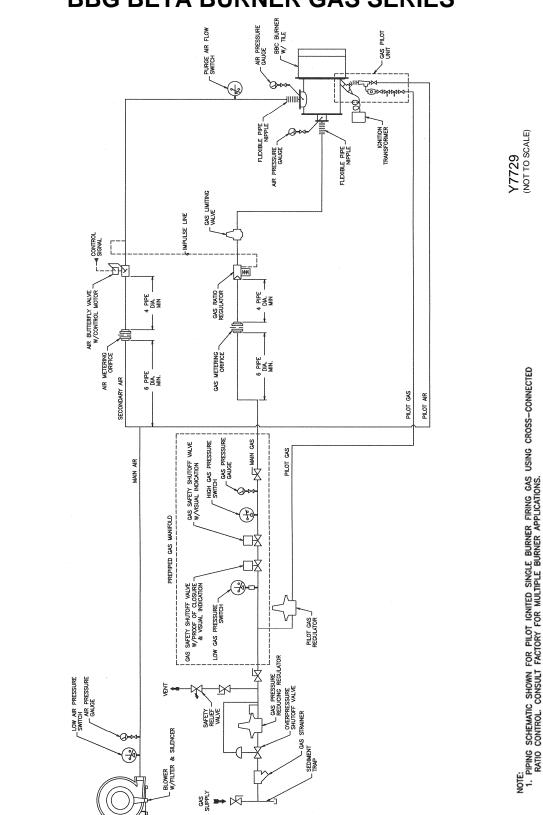
7 Burner is suitable for use on gaseous fuels other than Natural Gas and with combustion air other than ambient temperature, consult Hauck.

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

8/14

Fax: 717-273-9882





(OVER)

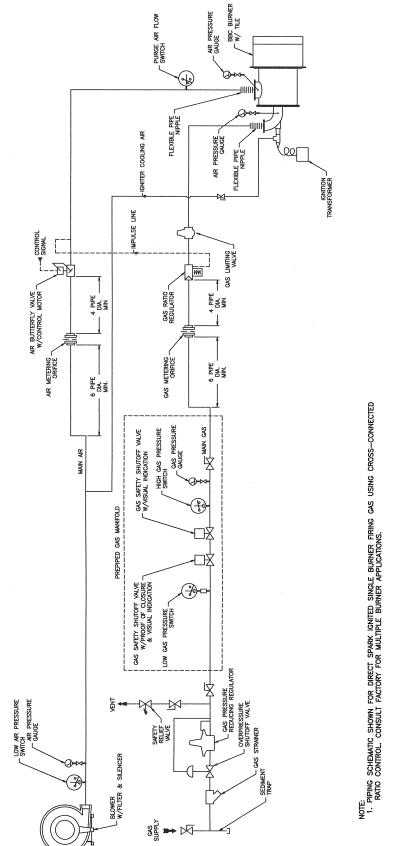
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8/14

CROSS-CONNECTED RATIO CONTROL

GAS W/PILOT IGNITION





Y7823 (NOT TO SCALE)

CROSS-CONNECTED RATIO CONTROL GAS W/DIRECT SPARK IGNITION

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



SUPPLEMENTAL DATA

BBG BETA BURNER

ORDERING INFORMATION

		<u>BB</u> 	<u>G</u> I	<u>2</u> 	<u>1</u> 	<u>08</u> 	<u>F</u> - <u>CR</u> 	<u>s</u> -
Bur	ner Type							
Type G – Gaseous Fuel C – Gaseous and Liquid Fuel GE – Gaseous Fuel for Export CE – Gaseous and Liquid Fuel For Expo	prt							
Series 1 – Alloy Baffle 2 – Refractory Baffle 3 – Refractory Baffle With Insulated Bod	у							
I gnition 1 – IPG Pilot (Pilot Sold Separately) 2 – Direct Spark Igniter 3 – ZMI Pilot								
Size 04 06 08 10 12 14 18 24								
Burner Revision]	
Tile Assembly CA – Converging Alloy CR – Converging Refractory DR – Diverging Refractory CW – Cast-In-Wall or Customer Supplied	d							
Flame Supervision F – Flamerod (06-12 Sizes Only) S – Scanner Assembly (Scanner Sold Se	eparately)							
Fuel LO – Low Pressure Oil Atomization HO – High Pressure Oil Atomization (Co LP – Liquid Propane	mpressed Air							

LP – Liquid Propane

HAUCK MANUFACTURING CO., 100 North Harris Street Cleona, PA 17042 717-272-3051 8/14 www.hauckburner.com Fax: 717-273-9882