

BBC 1000 AND 2000 SERI	ES		BUI	RNER MOI	DEL	
SPECIFICATIONS		xx04	xx06	xx08	xx10	xx12
Capacity	(MMBTU/hr)	3.0	6.0	12	18	25
Capacity	(kW)	800	1,600	3,200	4,800	6,600
Secondary Air Capacity	(scfh)	32,000	63,500	124,500	198,000	265,000
Secondary All Capacity	(nm ³ /hr)	857	1,701	3,335	5,304	7,099
Secondary Air Inlet Pressure	(in.w.c.)	27.7	27.7	27.7	27.7	27.7
Secondary All Inlet Plessure	(mbar)	68.9	68.9	68.9	68.9	68.9
Primary Air Capacity	(scfh)	2,400	6,200	11,000	11,000	17,500
Fillinary All Capacity	(nm ³ /hr)	64	166	295	295	469
Primary Air Inlet Pressure	(in.w.c.)	27.7	24.2	24.2	24.2	24.2
Fillinary All Illiet Flessure	(mbar)	68.9	60.2	60.2	60.2	60.2
Flame Length	(ft)	6	8	10	12	14
	(m)	1.9	2.4	3.0	3.7	4.3
Flame Diameter	(ft)	2.0	2.5	3.0	4.0	4.0
	(m)	0.6	0.8	0.9	1.2	1.2

BBC 1000 AND 2000 SERI	ES	BURNER MODEL					
SPECIFICATIONS		xx14	xx18	xx20	xx24		
Capacity	(MMBTU/hr)	38	62	84	116		
Capacity	(kW)	10,100	16,400	22,200	30,700		
Secondary Air Capacity	(scfh)	397,000	670,000	898,025	1,275,000		
Secondary All Capacity	(nm ³ /hr)	10,635	17,948	24,056	34,155		
Secondary Air Inlet Pressure	(in.w.c.)	27.7	27.7	27.7	27.7		
Secondary All Inlet Plessure	(mbar)	68.9	68.9	68.9	68.9		
Primary Air Capacity	(scfh)	31,000	31,000	36,000	37,000		
Fillinary All Capacity	(nm ³ /hr)	830	830	964	991		
Primary Air Inlet Pressure	(in.w.c.)	24.2	24.2	27.7	34.6		
Flinary All Inlet Flessure	(mbar)	60.2	60.2	68.9	86.1		
Flame Length	(ft)	15	20	16	25		
	(m)	4.6	6.1	4.9	7.6		
Flame Diameter	(ft)	5.0	5.0	4.0	6.0		
	(m)	1.5	1.5	1.2	1.8		

NOTES:

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1. Capacities based on Secondary and Primary Air flows listed and 20% excess air. Consult individual burner capacity tables for further details.

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

3. Primary Air Flow and Inlet pressure listed at maximum capacity. Consult individual burner capacity tables for further details.

4. Flame lengths measured from end of the combustion tile.

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

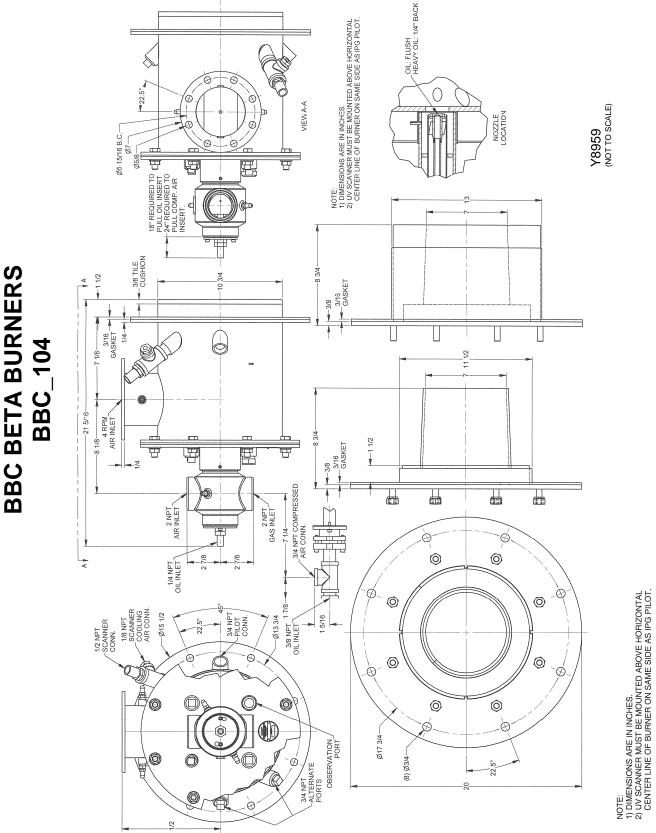
In accordance with Hauck's commitment to Total Quality Improvement, Hauck reserves the right to change the specifications of products without prior notice.

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

www.hauckburner.com Fax: 717-273-9882



DIMENSIONS

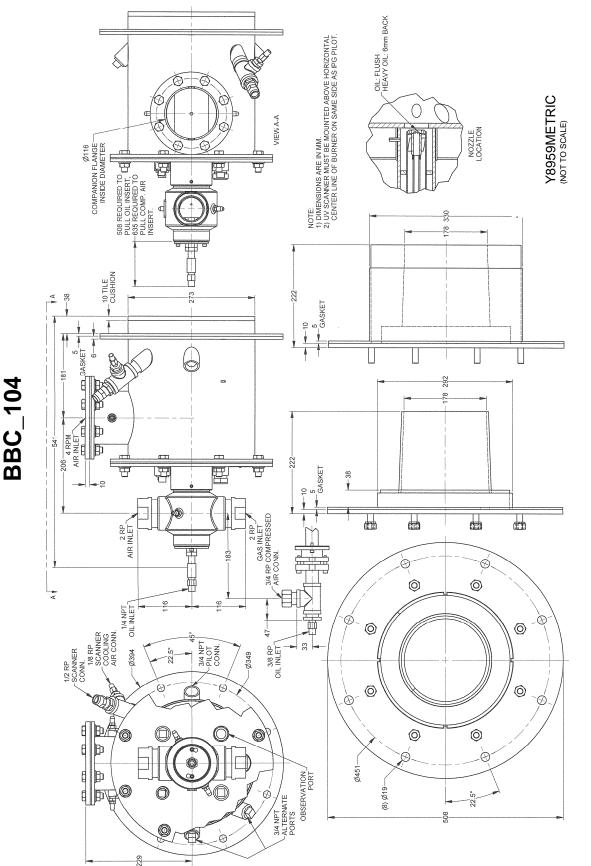


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METRIC DIMENSIONS

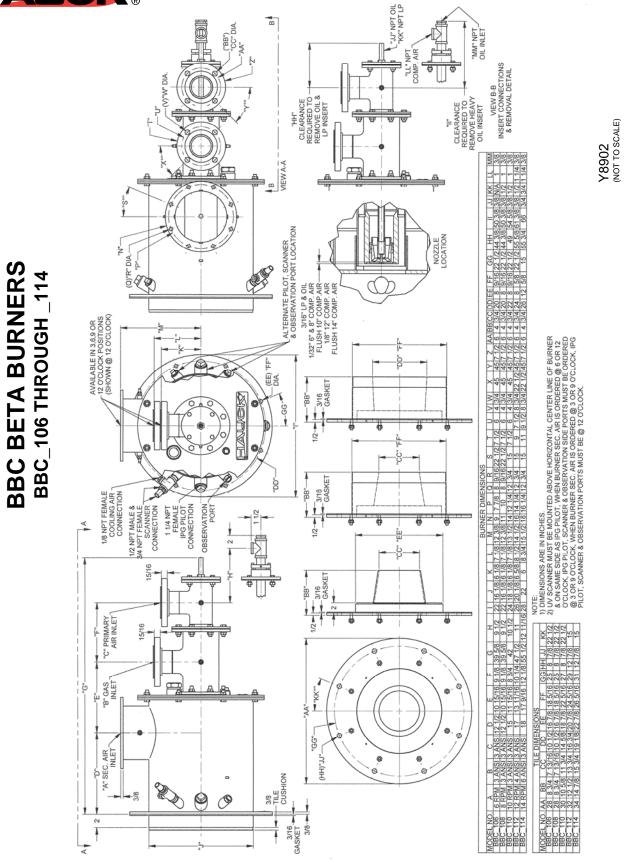
NOTE: 1) DIMENSIONS ARE IN MM. 2) USCANNER MUST BE MOUNTED ABOVE HORIZONTAL 2) USCATNER MUST BE MOUNTED ABOVE AS IPG PILOT.



BBC BETA BURNERS

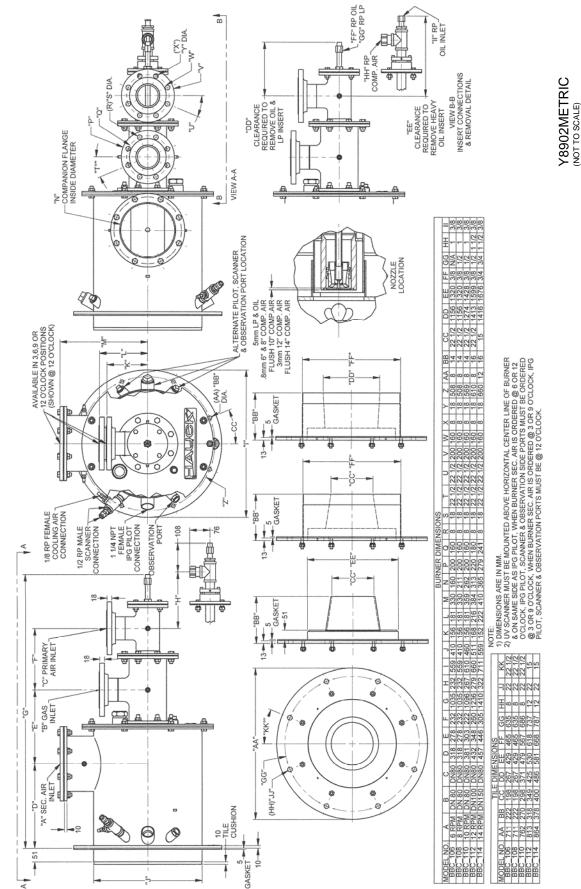


DIMENSIONS



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METRIC DIMENSIONS



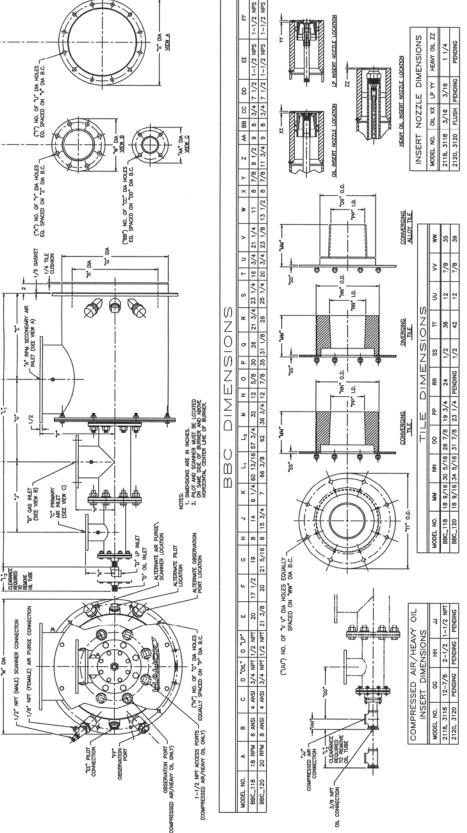
BBC BETA BURNERS

BBC_106 THROUGH _114



DIMENSIONS

Y4115 (NOT TO SCALE)



BBC_118 THROUGH BBC_120 **BBC BETA BURNERS**

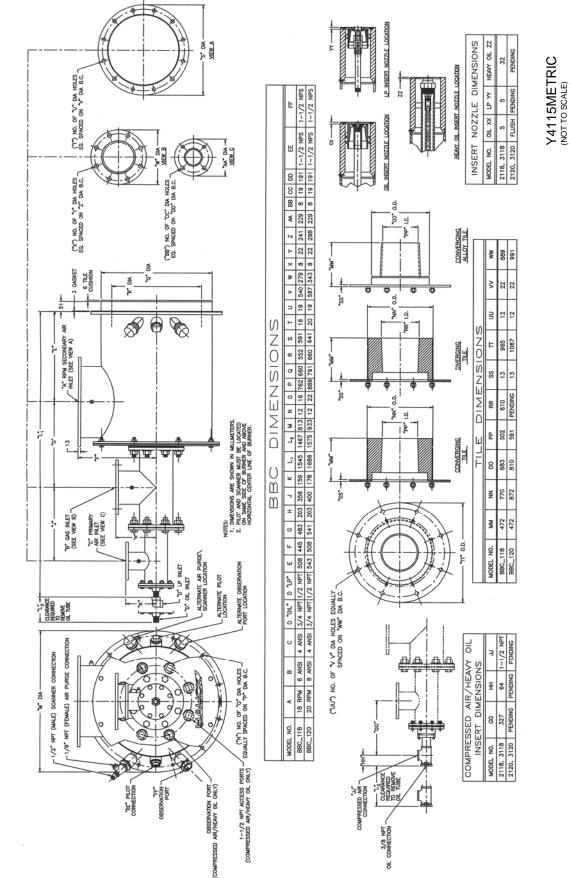
(See Reverse Side For Metric Dimensions)

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BBC BETA BURNERS BBC_118 THROUGH BBC_120

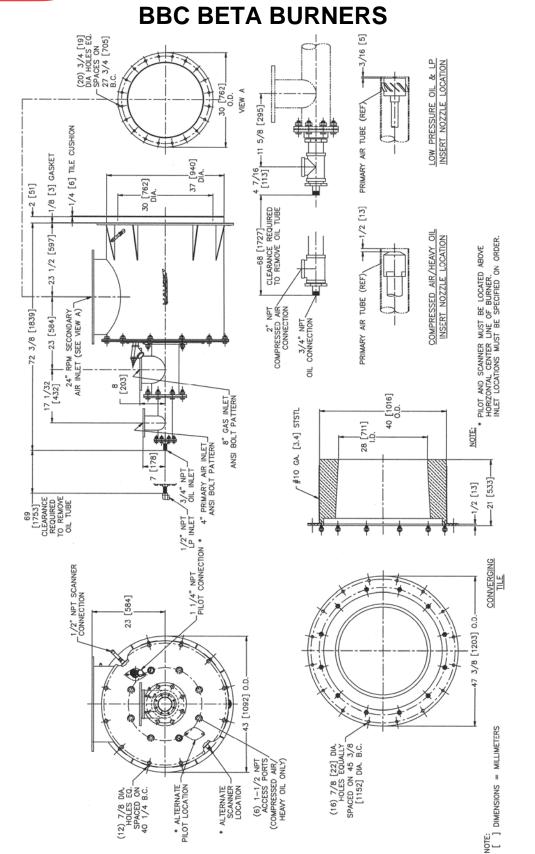
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METRIC DIMENSIONS



DIMENSIONS

Y5527 (NOT TO SCALE)



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BBC_124



Burner Capacity Information, BBC 1104/2104

NATURAL GAS, AMBIENT COMBUSTION AIR OPERATION, LOW PRESSURE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION						
Capacity (at 10% Excess Air)	(BTU/hr)	440,000	1,670,000	2,320,000	2,810,000	3,200,000		
Capacity (at 10% Excess All)	(kW)	120	440	610	740	850		
Secondary Air Capacity	(scfh)	3,320	16,100	22,800	27,900	32,000		
Secondary All Capacity	(nm ³ /hr)	89	431	611	747	857		
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7		
Secondary All Inlet I lessure	(mbar)	0.7	17.2	34.5	51.7	68.9		
Primary Air Capacity	(scfh)	1,200	1,200	1,200	1,200	1,200		
Fillinary All Capacity	(nm ³ /hr)	32	32	32	32	32		
Primary Air Inlet Pressure	(in.w.c.)	6.9	6.9	6.9	6.9	6.9		
Fillinary All Inlet Flessure	(mbar)	17.2	17.2	17.2	17.2	17.2		
Gas Inlet Pressure	(in.w.c.)	0.1	0.5	0.9	1.3	1.5		
Gas milet Pressure	(mbar)	0.1	1.2	2.2	3.1	3.7		
Flame Length (at 10% Excess Air)	(in)	30	36	60	66	72		
Flame Length (at 10% Excess Air)	(mm)	760	910	1520	1680	1830		
Flame Diameter (at 10% Excess Air	(in)	12	12	16	16	24		
I Tame Diameter (at 10% Excess Air	(mm)	300	300	410	410	610		
Maximum Operating Excess	(Air)	100%	400%	600%	600%	600%		
Maximum Operating Excess	(Fuel)	30%	30%	30%	30%	30%		

Burner Capacity Information, BBC 3104

NATURAL GAS, 900°F/482°C PREHEATED SECONDARY AIR OPERATION, LOW PRESSURE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 10% Excess Air)	(BTU/hr)	310,000	1,080,000	1,480,000	1,780,000	2,030,000	
Capacity (at 10% Excess All)	(kW)	80	290	390	470	540	
Secondary Air Capacity	(scfh)	2,055	9,967	14,115	17,272	19,811	
Secondary All Capacity	(nm ³ /hr)	55	267	378	463	531	
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7	
Secondary All Inlet I lessure	(mbar)	0.7	17.2	34.5	51.7	68.9	
Primary Air Capacity	(scfh)	1,200	1,200	1,200	1,200	1,200	
Fillinary All Capacity	(nm ³ /hr)	32	32	32	32	32	
Primary Air Inlet Pressure	(in.w.c.)	6.9	6.9	6.9	6.9	6.9	
Flindry All Inlet Flessure	(mbar)	17.2	17.2	17.2	17.2	17.2	
Gas Inlet Pressure	(in.w.c.)	0.0	0.4	0.7	0.9	1.1	
Ods Inlet i ressure	(mbar)	0.1	0.9	1.7	2.4	2.8	
Flame Length (at 10% Excess Air)	(in)	23	27	45	50	54	
Thame Length (at 10% Excess All)	(mm)	570	690	1140	1260	1370	
Flame Diameter (at 10% Excess Air	(in)	11	11	14	14	22	
I Tame Diameter (at 10% Excess Air	(mm)	270	270	370	370	550	
Maximum Operating Excess	(Air)	80%	320%	480%	480%	480%	
Maximum Operating Excess	(Fuel)	30%	30%	30%	30%	30%	

NOTES:

1. Capacities based on Natural Gas with HHV of 1034 BTU/ft³ (Standard) / LHV of 10.21 kWh/nm3 (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.

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

3. Fuel inlet pressures 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; for detection limits refer to the Burner Operating and Ignition Window.

6. Ignition via IPG5411 gas pilot; for ignition limits refer to the Burner Operating and Ignition Window.

7. 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.

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 4/14 www.hauckburner.com Fax: 717-273-9882 (OVER)

Burner Capacity Information, BBC 1104/2104

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

SPECIFICATIONS		OPERATIONAL INFORMATION						
Capacity (at 20% Excess Air)	(BTU/hr)	480,000	1,540,000	2,100,000	2,530,000	2,870,000		
Capacity (at 20% Excess All)	(kW)	130	410	560	670	760		
Secondary Air Capacity	(scfh)	3,320	16,100	22,800	27,900	32,000		
Secondary All Capacity	(nm ³ /hr)	89	431	611	747	857		
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7		
Secondary All Inlet Tressure	(mbar)	0.7	17.2	34.5	51.7	68.9		
Primary Air Capacity	(scfh)	2,400	2,400	2,400	2,400	2,400		
	(nm ³ /hr)	64	64	64	64	64		
Primary Air Inlet Pressure	(in.w.c.)	27.7	27.7	27.7	27.7	27.7		
Thindry All Inlet Tressure	(mbar)	68.9	68.9	68.9	68.9	68.9		
Fuel Oil Flow(at 20% Excess Air)	(gph)	3.5	11.2	15.2	18.3	20.8		
T UET OIT T IOW(at 20% Excess All)	(lph)	13	42	58	69	79		
Flame Length (at 20% Excess Air)	(in)	36	60	66	72	84		
Tiame Length (at 20% Excess All)	(mm)	910	1520	1680	1830	2130		
Flame Diameter (at 20% Excess Air	(in)	12	16	24	24	24		
I Tame Diameter (at 20% Excess Air	(mm)	300	410	610	610	610		
Maximum Operating Excess	(Air)	100%	200%	250%	250%	275%		
	(Fuel)	30%	30%	30%	30%	30%		

Burner Capacity Information, BBC 3104

NO. 2 FUEL OIL, 900°F/482°C PREHEATED SECONDARY AIR OPERATION, LOW PRESSURE ATOMIZATION

SPECIFICATIONS			OPERATI	ONAL INFO	RMATION	
Capacity (at 20% Excess Air)	(BTU/hr)	370,000	1,030,000	1,380,000	1,640,000	1,850,000
	(kW)	100	270	370	430	490
Secondary Air Capacity	(scfh)	2,055	9,967	14,115	17,272	19,811
	(nm ³ /hr)	55	267	378	463	531
Secondary 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
Primary Air Capacity	(scfh)	2,400	2,400	2,400	2,400	2,400
	(nm ³ /hr)	64	64	64	64	64
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)	2.7	7.5	10.0	11.9	13.4
	(lph)	10	28	38	45	51
Flame Length(at 20% Excess Air)	(in)	27	45	50	54	63
	(mm)	690	1140	1260	1370	1600
Flame Diameter(at 20% Excess Air)	(in)	11	14	22	22	22
	(mm)	270	370	550	550	550
Maximum Operating Excess	(Air)	80%	160%	200%	200%	220%
	(Fuel)	30%	30%	30%	30%	30%

NOTES:

1. 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.

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

3. Fuel inlet pressures 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; for detection limits refer to the Burner Operating and Ignition Window.

6. Ignition via IPG5411 gas pilot; for ignition limits refer to the Burner Operating and Ignition Window.

Burner Capacity Information, BBC 1104/2104

NO. 6 FUEL OIL, AMBIENT COMBUSTION AIR OPERATION, HIGH PRESSURE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 20% Excess Air)	(BTU/hr) (kW)	390,000 100	1,480,000 390	2,050,000 540	2,490,000 660	2,840,000 750	
Secondary Air Capacity	(scfh)	3,320	16,100	22,800	27,900	32,000	
Secondary All Capacity	(nm ³ /hr)	89	431	611	747	857	
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7	
Secondary All Inlet Tressure	(mbar)	0.7	17.2	34.5	51.7	68.9	
Primary Air Capacity	(scfh)	920	920	920	920	920	
	(nm ³ /hr)	25	25	25	25	25	
Primary Air Inlet Pressure	(in.w.c.)	4.0	4.0	4.0	4.0	4.0	
Thinary All Inlet Tressure	(mbar)	10.0	10.0	10.0	10.0	10.0	
Atomizing Air Capacity	(scfh)	300	330	330	330	330	
Atomizing All Capacity	(nm ³ /hr)	8	9	9	9	9	
Atomizing Air Inlet Pressure	(psig)	34	54	60	61	62	
Atomizing All Inlet i ressure	(bar)	2.3	3.7	4.1	4.2	4.3	
Fuel Oil Flow	(gph)	2.6	10	14	17	19	
	(lph)	10	38	53	64	72	
Fuel Oil Inlet Pressure	(psig)	34	56	62	63	64	
T del Oli Inier Pressure	(bar)	2.3	3.9	4.3	4.3	4.4	
Flame Length(at 20% Excess Air)	(in)	16	42	48	54	60	
I lame Length (at 20% Excess All)	(mm)	410	1070	1220	1370	1520	
Flame Diameter(at 20% Excess Air)	(in)	12	16	16	24	24	
	(mm)	300	410	410	610	610	
Maximum Operating Excess	(Air)	50%	100%	125%	150%	200%	
	(Fuel)	30%	30%	30%	30%	30%	

NOTES:

1. Capacities based on No. 6 Fuel Oil with HHV of 150,000 BTU/USgal (Standard) / LHV of 11.2 kWh/liter (Metric), 1.02 S.G., and a stoichiometric ratio of 1465:1 at 20% excess air; all cases with burner firing into chamber under no pressure.

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

3. Fuel inlet pressures 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; for detection limits refer to the Burner Operating and Ignition Window.

6. Ignition via IPG5411 gas pilot; for ignition limits refer to the Burner Operating and Ignition Window.



Burner Capacity Information, BBC 1106/2106

NATURAL GAS, AMBIENT COMBUSTION AIR OPERATION, LOW PRESSURE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 10% Excess Air)	(BTU/hr)	1,000,000	3,480,000	4,670,000	5,610,000	6,480,000	
· · · · · · · · · · · · · · · · · · ·	(kW)	260	920	1,240	1,480	1,710	
Secondary Air Capacity	(scfh)	6,750	32,500	44,825	54,500	63,500	
Secondary All Capacity	(nm ³ /hr)	181	871	1,201	1,460	1,701	
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7	
Secondary All Inlet Flessure	(mbar)	0.7	17.2	34.5	51.7	68.9	
Drimony Air Consoity	(scfh)	3,600	3,600	3,600	3,600	3,600	
Primary Air Capacity	(nm ³ /hr)	96	96	96	96	96	
Primary Air Inlet Pressure	(in.w.c.)	6.9	6.9	6.9	6.9	6.9	
Fillinary All Inlet Flessure	(mbar)	17.2	17.2	17.2	17.2	17.2	
Gas Inlet Pressure	(in.w.c.)	0.0	1.7	3.6	5.4	7.3	
Gas Iniel Plessule	(mbar)	0.1	4.2	9.0	13.4	18.2	
Flame Length (at 10% Excess Air)	(in)	36	72	84	90	96	
Flame Length (at 10% Excess Air)	(mm)	910	1830	2130	2290	2440	
Elamo Diamotor (at 40% Europe Air	(in)	12	24	28	28	30	
Flame Diameter (at 10% Excess Air	(mm)	300	610	710	710	760	
Maximum Operating Excess	(Air)	200%	350%	350%	350%	350%	
Maximum Operating Excess	(Fuel)	30%	30%	30%	30%	30%	

Burner Capacity Information, BBC 3106

NATURAL GAS, 900°F/482°C PREHEATED SECONDARY AIR OPERATION, LOW PRESSURE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 10% Excess Air)	(BTU/hr)	,	2,290,000	3,030,000	3,600,000	4,140,000	
	(kW)	200	610	800	950	1,100	
Secondary Air Capacity	(scfh)	4,179	20,120	27,750	33,740	39,312	
Occollidary All Oapacity	(nm ³ /hr)	112	539	743	904	1,053	
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7	
Secondary All Inlet I lessure	(mbar)	0.7	17.2	34.5	51.7	68.9	
Primary Air Capacity	(scfh)	3,600	3,600	3,600	3,600	3,600	
Fillinary All Capacity	(nm ³ /hr)	96	96	96	96	96	
Primary Air Inlet Pressure	(in.w.c.)	6.9	6.9	6.9	6.9	6.9	
Flindry All Inlet Flessure	(mbar)	17.2	17.2	17.2	17.2	17.2	
Gas Inlet Pressure	(in.w.c.)	0.0	1.3	2.7	4.1	5.5	
Gas milet Pressure	(mbar)	0.1	3.2	6.8	10.2	13.8	
Flame Length (at 10% Excess Air)	(in)	27	54	63	68	72	
I lame Length (at 10% Excess All)	(mm)	690	1370	1600	1710	1830	
Flame Diameter (at 10% Excess Air	(in)	11	22	25	25	27	
I Tame Diameter (at 10% Excess Air	(mm)	270	550	640	640	690	
Maximum Operating Excess	(Air)	160%	280%	280%	280%	280%	
Maximum Operating Excess	(Fuel)	30%	30%	30%	30%	30%	

NOTES:

1. Capacities based on Natural Gas with HHV of 1034 BTU/ft³ (Standard) / LHV of 10.21 kWh/nm3 (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.

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

3. Fuel inlet pressures 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; for detection limits refer to the Burner Operating and Ignition Window.

6. Ignition via IPG5413 gas pilot; for ignition limits refer to the Burner Operating and Ignition Window.

7. 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.

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HAUCK MANUFACTURING CO., 100 North Harris Street Cleona, PA 17042 717-272-3051 4/14 www.hauckburner.com Fax: 717-273-9882

Burner Capacity Information, BBC 1106/2106

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

SPECIFICATIONS		OPERATIONAL INFORMATION						
Capacity (at 200) Excess (it)	(BTU/hr)	1,080,000	3,230,000	4,250,000	5,060,000	5,810,000		
Capacity (at 20% Excess Air)	(kW)	290	850	1,120	1,340	1,540		
Secondary Air Capacity	(scfh)	6,750	32,500	44,825	54,500	63,500		
Secondary All Capacity	(nm ³ /hr)	181	871	1,201	1,460	1,701		
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7		
Secondary All Inlet Tressure	(mbar)	0.7	17.2	34.5	51.7	68.9		
Primary Air Capacity	(scfh)	6,200	6,200	6,200	6,200	6,200		
	(nm ³ /hr)	166	166	166	166	166		
Primary Air Inlet Pressure	(in.w.c.)	24.2	24.2	24.2	24.2	24.2		
Thinary All Inlet Tressure	(mbar)	60.2	60.2	60.2	60.2	60.2		
Fuel Oil Flow(at 20% Excess Air)	(gph)	7.8	23	31	37	42		
T del OII T IOW(at 20% Excess Air)	(lph)	30	88	117	139	159		
Flame Length (at 20% Excess Air)	(in)	30	72	84	84	90		
Tiame Length (at 20% Excess Air)	(mm)	760	1830	2130	2130	2290		
Flame Diameter (at 20% Excess Air	(in)	12	16	24	24	28		
i lattle Diattletel (at 20% Excess Air	(mm)	300	410	610	610	710		
Maximum Operating Excess	(Air)	100%	350%	400%	500%	600%		
	(Fuel)	30%	30%	30%	30%	30%		

Burner Capacity Information, BBC 3106

NO. 2 FUEL OIL, 900°F/482°C PREHEATED SECONDARY AIR OPERATION, LOW PRESSURE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION						
Capacity (at 20% Excess Air)	(BTU/hr)	860,000	2,190,000	2,830,000	3,330,000	3,790,000		
	(kW)	230	580	750	880	1,000		
Secondary Air Capacity	(scfh)	4,179	20,120	27,750	33,740	39,312		
	(nm ³ /hr)	112	539	743	904	1,053		
Secondary 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		
Primary Air Capacity	(scfh)	6,200	6,200	6,200	6,200	6,200		
	(nm ³ /hr)	166	166	166	166	166		
Primary Air Inlet Pressure	(in.w.c.)	24.2	24.2	24.2	24.2	24.2		
	(mbar)	60.2	60.2	60.2	60.2	60.2		
Fuel Oil Flow(at 20% Excess Air)	(gph)	6.3	16	21	24	27		
	(lph)	24	60	78	91	104		
Flame Length(at 20% Excess Air)	(in)	23	54	63	63	68		
	(mm)	570	1370	1600	1600	1710		
Flame Diameter(at 20% Excess Air)	(in)	11	14	22	22	25		
	(mm)	270	370	550	550	640		
Maximum Operating Excess	(Air)	80%	280%	320%	400%	480%		
	(Fuel)	30%	30%	30%	30%	30%		

NOTES:

1. 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.

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

3. Fuel inlet pressures 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; for detection limits refer to the Burner Operating and Ignition Window.

6. Ignition via IPG5413 gas pilot; for ignition limits refer to the Burner Operating and Ignition Window.

Burner Capacity Information, BBC 1106/2106

NO. 6 FUEL OIL, AMBIENT COMBUSTION AIR OPERATION, HIGH PRESSURE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 20% Excess Air)	(BTU/hr)	1,310,000	3,510,000	4,570,000	5,400,000	6,170,000	
	(kW)	350	930	1,210	1,430	1,630	
Secondary Air Capacity	(scfh)	6,750	32,500	44,825	54,500	63,500	
	(nm ³ /hr)	181	871	1,201	1,460	1,701	
Secondary 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	
Primary Air Capacity	(scfh)	8,000	8,000	8,000	8,000	8,000	
	(nm ³ /hr)	214	214	214	214	214	
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	
Atomizing Air Capacity	(scfh)	620	665	700	750	775	
	(nm ³ /hr)	17	18	19	20	21	
Atomizing Air Inlet Pressure	(psig)	23	37	42	48	52	
	(bar)	1.6	2.6	2.9	3.3	3.6	
Fuel Oil Flow	(gph)	8.7	23	30	36	41	
	(lph)	33	87	114	136	155	
Fuel Oil Inlet Pressure	(psig)	25	48	46	51	55	
	(bar)	1.7	3.3	3.2	3.5	3.8	
Flame Length(at 20% Excess Air)	(in)	36	60	72	84	84	
	(mm)	910	1520	1830	2130	2130	
Flame Diameter(at 20% Excess Air)	(in)	12	16	16	24	24	
	(mm)	300	410	410	610	610	
Maximum Operating Excess	(Air)	50%	100%	125%	150%	200%	
	(Fuel)	30%	30%	30%	30%	30%	

NOTES:

1. Capacities based on No. 6 Fuel Oil with HHV of 150,000 BTU/USgal (Standard) / LHV of 11.2 kWh/liter (Metric), 1.02 S.G., and a stoichiometric ratio of 1465:1 at 20% excess air; all cases with burner firing into chamber under no pressure.

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

3. Fuel inlet pressures 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; for detection limits refer to the Burner Operating and Ignition Window.

6. Ignition via IPG5411 gas pilot; for ignition limits refer to the Burner Operating and Ignition Window.



Burner Capacity Information, BBC 1108/2108

NATURAL GAS, AMBIENT COMBUSTION AIR OPERATION, LOW PRESSURE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 10% Excess Air)	(BTU/hr)	1,740,000	6,520,000	9,040,000	11,020,000	12,550,000	
Capacity (at 10% Excess Air)	(kW)	460	1,720	2,390	2,910	3,320	
Secondary Air Capacity	(scfh)	12,550	62,075	88,150	108,650	124,500	
Secondary All Capacity	(nm ³ /hr)	336	1,663	2,361	2,911	3,335	
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7	
Secondary All Inlet Pressure	(mbar)	0.7	17.2	34.5	51.7	68.9	
Primary Air Capacity	(scfh)	5,500	5,500	5,500	5,500	5,500	
Fillinary All Capacity	(nm ³ /hr)	147	147	147	147	147	
Primary Air Inlet Pressure	(in.w.c.)	6.9	6.9	6.9	6.9	6.9	
Fillinary All Inlet Flessure	(mbar)	17.2	17.2	17.2	17.2	17.2	
Gas Inlet Pressure	(in.w.c.)	0.1	3.2	6.4	9.3	12.2	
Gas inlet Pressure	(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 Air)	(mm)	1520	2130	2440	2740	3050	
Flame Diameter (at 10% Excess Air	(in)	24	30	30	36	36	
	(mm)	610	760	760	910	910	
Maximum Operating Excess	(Air)	350%	400%	400%	500%	500%	
Maximum Operating Excess	(Fuel)	30%	30%	30%	30%	30%	

Burner Capacity Information, BBC 3108

NATURAL GAS, 900°F/482°C PREHEATED SECONDARY AIR OPERATION, LOW PRESSURE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 10% Excess Air)	(BTU/hr)	1,280,000	4,240,000	5,800,000	7,020,000	7,970,000	
	(kW)	340	1,120	1,530	1,860	2,110	
Secondary Air Capacity	(scfh)	7,769	38,429	54,572	67,263	77,075	
	(nm ³ /hr)	208	1,029	1,462	1,802	2,065	
Secondary 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	
Primary Air Capacity	(scfh)	5,500	5,500	5,500	5,500	5,500	
	(nm ³ /hr)	147	147	147	147	147	
Primary Air Inlet Pressure	(in.w.c.)	6.9	6.9	6.9	6.9	6.9	
	(mbar)	17.2	17.2	17.2	17.2	17.2	
Gas Inlet Pressure	(in.w.c.)	0.1	2.4	4.9	7.1	9.3	
	(mbar)	0.2	6.0	12.1	17.6	23.0	
Flame Length (at 10% Excess Air)	(in)	45	63	72	81	90	
	(mm)	1140	1600	1830	2060	2290	
Flame Diameter (at 10% Excess Air	(in)	22	27	27	32	32	
	(mm)	550	690	690	820	820	
Maximum Operating Excess	(Air)	280%	320%	320%	400%	400%	
	(Fuel)	30%	30%	30%	30%	30%	

NOTES:

1. Capacities based on Natural Gas with HHV of 1034 BTU/ft³ (Standard) / LHV of 10.21 kWh/nm3 (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.

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

3. Fuel inlet pressures 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; for detection limits refer to the Burner Operating and Ignition Window.

6. Ignition via IPG5413 gas pilot; for ignition limits refer to the Burner Operating and Ignition Window.

7. 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.

(OVER) 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 www.hauckburner.com Fax: 717-273-9882

Burner Capacity Information, BBC 1108/2108

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

SPECIFICATIONS	OPERATIONAL INFORMATION					
Capacity (at 20% Excess Air)	(BTU/hr)	1,960,000	6,090,000	8,260,000	9,970,000	11,290,000
Capacity (at 20% Excess All)	(kW)	520	1,610	2,180	2,640	2,990
Secondary Air Capacity	(scfh)	12,550	62,075	88,150	108,650	124,500
Secondary All Capacity	(nm ³ /hr)	336	1,663	2,361	2,911	3,335
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7
Secondary All Inlet Pressure	(mbar)	0.7	17.2	34.5	51.7	68.9
Primary Air Capacity	(scfh)	11,000	11,000	11,000	11,000	11,000
Fillinary All Capacity	(nm ³ /hr)	295	295	295	295	295
Primary Air Inlet Pressure	(in.w.c.)	24.2	24.2	24.2	24.2	24.2
Fillinary All Inlet Flessure	(mbar)	60.2	60.2	60.2	60.2	60.2
Fuel Oil Flow(at 20% Excess Air)	(gph)	14.2	44	60	72	82
T UEI OII T IOW(at 20% Excess Air)	(lph)	54	167	227	273	310
Flame Length (at 20% Excess Air)	(in)	66	90	102	114	120
Fiame Length (at 20% Excess Air)	(mm)	1680	2290	2590	2900	3050
Flame Diameter (at 20% Excess Air	(in)	24	30	30	36	36
Fiame Diameter (at 20% Excess Air	(mm)	610	760	760	910	910
Maximum Operating Excess	(Air)	400%	400%	400%	500%	500%
	(Fuel)	30%	30%	30%	30%	30%

Burner Capacity Information, BBC 3108

NO. 2 FUEL OIL, 900°F/482°C PREHEATED SECONDARY AIR OPERATION, LOW PRESSURE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 20% Excess Air)	(BTU/hr)	1,560,000	4,120,000	5,460,000	6,520,000	7,340,000	
	(kW)	410	1,090	1,440	1,720	1,940	
Secondary Air Capacity	(scfh)	7,769	38,429	54,572	67,263	77,075	
	(nm ³ /hr)	208	1,029	1,462	1,802	2,065	
Secondary 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	
Primary Air Capacity	(scfh)	11,000	11,000	11,000	11,000	11,000	
	(nm ³ /hr)	295	295	295	295	295	
Primary Air Inlet Pressure	(in.w.c.)	24.2	24.2	24.2	24.2	24.2	
	(mbar)	60.2	60.2	60.2	60.2	60.2	
Fuel Oil Flow(at 20% Excess Air)	(gph)	11.3	30	40	47	53	
	(lph)	43	113	150	179	201	
Flame Length(at 20% Excess Air)	(in)	50	68	77	86	90	
	(mm)	1260	1710	1940	2170	2290	
Flame Diameter(at 20% Excess Air)	(in)	22	27	27	32	32	
	(mm)	550	690	690	820	820	
Maximum Operating Excess	(Air)	320%	320%	320%	400%	400%	
	(Fuel)	30%	30%	30%	30%	30%	

NOTES:

1. 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.

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

3. Fuel inlet pressures 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; for detection limits refer to the Burner Operating and Ignition Window.

6. Ignition via IPG5413 gas pilot; for ignition limits refer to the Burner Operating and Ignition Window.

Burner Capacity Information, BBC 1108/2108

LIQUID PROPANE, AMBIENT COMBUSTION AIR OPERATION, LIQUID PROPANE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 20% Excess Air)	(BTU/hr)	2,110,000	6,560,000	8,890,000	10,730,000	12,160,000	
	(kW)	560	1,740	2,350	2,840	3,220	
Secondary Air Capacity	(scfh)	12,550	62,075	88,150	108,650	124,500	
Occontrary All Capacity	(nm ³ /hr)	336	1,663	2,361	2,911	3,335	
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7	
Secondary All Inlet Tressure	(mbar)	0.7	17.2	34.5	51.7	68.9	
Primary Air Capacity	(scfh)	11,000	11,000	11,000	11,000	11,000	
	(nm ³ /hr)	295	295	295	295	295	
Primary Air Inlet Pressure	(in.w.c.)	24.2	24.2	24.2	24.2	24.2	
T filling All fillet Tessure	(mbar)	60.2	60.2	60.2	60.2	60.2	
Liquid Propane Flow	(gph)	23	72	97	117	133	
Elquid 1 Topane 1 Iow	(lph)	87	271	368	444	503	
Liquid Propane Inlet Pressure	(psig)	2	15	28	41	53	
Elquid i Toparie Triet i Tessure	(bar)	0.1	1.1	1.9	2.8	3.6	
Flame Length (at 20% Excess Air)	(in)	60	84	96	108	120	
Tiame Length (at 20% Excess All)	(mm)	1520	2130	2440	2740	3050	
Flame Diameter(at 20% Excess Air)	(in)	24	30	30	36	36	
Fighter Diamoter (at 20% Excess All)	(mm)	610	760	760	910	910	
Maximum Operating Excess	(Air)	350%	400%	400%	500%	500%	
	(Fuel)	30%	30%	30%	30%	30%	

NO. 6 FUEL OIL, AMBIENT COMBUSTION AIR OPERATION, HIGH PRESSURE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 20% Excess Air)	(BTU/hr)	1,750,000	6,010,000	8,250,000	10,010,000	11,370,000	
	(kW)	460	1,590	2,180	2,650	3,010	
Secondary Air Capacity	(scfh)	12,550	62,075	88,150	108,650	124,500	
	(nm ³ /hr)	336	1,663	2,361	2,911	3,335	
Secondary 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	
Primary Air Capacity	(scfh)	7,500	7,500	7,500	7,500	7,500	
	(nm ³ /hr)	201	201	201	201	201	
Primary Air Inlet Pressure	(in.w.c.)	3.0	3.0	3.0	3.0	3.0	
	(mbar)	7.5	7.5	7.5	7.5	7.5	
Atomizing Air Capacity	(scfh)	450	815	1,060	1,142	1,200	
	(nm ³ /hr)	12	22	28	31	32	
Atomizing Air Inlet Pressure	(psig)	15	36	46	58	70	
	(bar)	1.0	2.5	3.2	4.0	4.8	
Fuel Oil Flow	(gph)	11.7	40	55	67	76	
	(lph)	44	151	208	254	288	
Fuel Oil Inlet Pressure	(psig)	16	38	48	60	72	
	(bar)	1.1	2.6	3.3	4.1	5.0	
Flame Length(at 20% Excess Air)	(in)	60	84	108	120	132	
	(mm)	1520	2130	2740	3050	3350	
Flame Diameter(at 20% Excess Air)	(in)	18	18	24	24	30	
	(mm)	460	460	610	610	760	
Maximum Operating Excess	(Air)	150%	200%	200%	200%	200%	
	(Fuel)	30%	30%	30%	30%	30%	

NOTES:

 Capacities based on 1) Liquid Propane with HHV of 91,500 BTU/gal (Standard) / LHV of 6.5 kWh/liter (Metric), 0.51 S.G.,and a stoichiometric ratio of 850:1 at 20% excess air, or 2) No. 6 Fuel Oil with HHV of 150,000 BTU/USgal (Standard) / LHV of 11.2 kWh/liter (Metric), 1.02 S.G., and a stoichiometric ratio of 1465:1 at 20% excess air; all cases 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.

4. Flame lengths measured from end of the combustion tile.

5. Flame detection via UV scanner; for detection limits refer to the Burner Operating and Ignition Window.

6. Ignition via IPG5413 gas pilot; for ignition limits refer to the Burner Operating and Ignition Window.

7. 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.



Burner Capacity Information, BBC 1110/2110

NATURAL GAS, AMBIENT COMBUSTION AIR OPERATION, LOW PRESSURE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 10% Excess Air)	(BTU/hr)	2,750,000	9,990,000	13,750,000	16,840,000	19,640,000	
Capacity (at 10% Excess All)	(kW)	730	2,640	3,640	4,450	5,190	
Secondary Air Capacity	(scfh)	23,000	98,000	137,000	169,000	198,000	
Secondary All Capacity	(nm ³ /hr)	616	2,625	3,670	4,527	5,304	
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7	
Secondary All Inlet Pressure	(mbar)	0.7	17.2	34.5	51.7	68.9	
Primary Air Capacity	(scfh)	5,500	5,500	5,500	5,500	5,500	
	(nm ³ /hr)	147	147	147	147	147	
Primary Air Inlet Pressure	(in.w.c.)	6.9	6.9	6.9	6.9	6.9	
Fillinary All Illiet Flessure	(mbar)	17.2	17.2	17.2	17.2	17.2	
Gas Inlet Pressure	(in.w.c.)	0.2	4.3	8.3	10.3	13.5	
Cas met riessure	(mbar)	0.5	10.7	20.7	25.6	33.6	
Flame Length (at 10% Excess Air)	(in)	60	96	120	132	144	
I lame Length (at 10% Excess All)	(mm)	1520	2440	3050	3350	3660	
Flame Diameter (at 10% Excess Air	(in)	36	42	48	54	60	
i fame Diameter (at 10% Excess Air	(mm)	910	1070	1220	1370	1520	
Maximum Operating Excess	(Air)	300%	400%	400%	500%	500%	
Maximum Operating Excess	(Fuel)	30%	30%	30%	30%	30%	

Burner Capacity Information, BBC 3110

NATURAL GAS, 900°F/482°C PREHEATED SECONDARY AIR OPERATION, LOW PRESSURE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 10% Excess Air)	(BTU/hr)	1,900,000	6,390,000	8,720,000	10,630,000	12,360,000	
	(kW)	500	1,690	2,310	2,810	3,270	
Secondary Air Capacity	(scfh)	14,239	60,670	84,814	104,625	122,578	
Secondary Air Inlet Pressure	(nm ³ /hr)	381	1,625	2,272	2,803	3,284	
	(in.w.c.)	0.3	6.9	13.9	20.8	27.7	
Primary Air Capacity	(mbar)	0.7	17.2	34.5	51.7	68.9	
	(scfh)	5,500	5,500	5,500	5,500	5,500	
Primary Air Inlet Pressure	(nm ³ /hr)	147	147	147	147	147	
	(in.w.c.)	6.9	6.9	6.9	6.9	6.9	
Gas Inlet Pressure	(mbar)	17.2	17.2	17.2	17.2	17.2	
	(in.w.c.)	0.2	3.3	6.3	7.8	10.2	
Flame Length (at 10% Excess Air)	(mbar)	0.4	8.1	15.7	19.4	25.5	
	(in)	45	72	90	99	108	
	(mm)	1140	1830	2290	2510	2740	
	(in)	32	38	43	49	54	
Flame Diameter (at 10% Excess Air	(mm)	820	960	1100	1230	1370	
	(Air)	240%	320%	320%	400%	400%	
Maximum Operating Excess	(Fuel)	30%	30%	30%	30%	30%	

NOTES:

1. Capacities based on Natural Gas with HHV of 1034 BTU/ft³ (Standard) / LHV of 10.21 kWh/nm3 (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.

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

3. Fuel inlet pressures 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; for detection limits refer to the Burner Operating and Ignition Window.

6. Ignition via IPG5413 gas pilot; for ignition limits refer to the Burner Operating and Ignition Window.

7. 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.

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

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Burner Capacity Information, BBC 1110/2110

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

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 20% Excess Air)	(BTU/hr)	2,830,000	9,080,000	12,330,000	15,000,000	17,420,000	
Capacity (at 20% Excess All)	(kW)	750	2,400	3,260	3,970	4,610	
Secondary Air Capacity	(scfh)	23,000	98,000	137,000	169,000	198,000	
Secondary All Capacity	(nm ³ /hr)	616	2,625	3,670	4,527	5,304	
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7	
Secondary All Inlet Pressure	(mbar)	0.7	17.2	34.5	51.7	68.9	
Primary Air Capacity	(scfh)	11,000	11,000	11,000	11,000	11,000	
Filliary All Capacity	(nm ³ /hr)	295	295	295	295	295	
Primary Air Inlet Pressure	(in.w.c.)	24.2	24.2	24.2	24.2	24.2	
Fillinary All Inlet Flessure	(mbar)	60.2	60.2	60.2	60.2	60.2	
Fuel Oil Flow(at 20% Excess Air)	(gph)	21	66	89	109	126	
T UET OIT T IOW(at 20% Excess Air)	(lph)	78	249	338	411	478	
Flame Length (at 20% Excess Air)	(in)	84	108	120	132	144	
I lame Length (at 20% Excess Air)	(mm)	2130	2740	3050	3350	3660	
Flame Diameter (at 20% Excess Air	(in)	24	36	36	42	48	
i lattie Diattieter (at 20% Excess Air	(mm)	610	910	910	1070	1220	
Maximum Operating Excess	(Air)	500%	750%	1000%	1000%	1000%	
	(Fuel)	30%	30%	30%	30%	30%	

Burner Capacity Information, BBC 3110

NO. 2 FUEL OIL, 900°F/482°C PREHEATED SECONDARY AIR OPERATION, LOW PRESSURE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 20% Excess Air)	(BTU/hr)	2,100,000	5,970,000	7,980,000	9,640,000	11,130,000	
	(kW)	560	1,580	2,110	2,550	2,940	
Secondary Air Capacity	(scfh)	14,239	60,670	84,814	104,625	122,578	
	(nm ³ /hr)	381	1,625	2,272	2,803	3,284	
Secondary 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	
Primary Air Capacity	(scfh)	11,000	11,000	11,000	11,000	11,000	
	(nm ³ /hr)	295	295	295	295	295	
Primary Air Inlet Pressure	(in.w.c.)	24.2	24.2	24.2	24.2	24.2	
	(mbar)	60.2	60.2	60.2	60.2	60.2	
Fuel Oil Flow(at 20% Excess Air)	(gph)	15	43	58	70	81	
	(lph)	58	164	219	264	305	
Flame Length(at 20% Excess Air)	(in)	63	81	90	99	108	
	(mm)	1600	2060	2290	2510	2740	
Flame Diameter(at 20% Excess Air)	(in)	22	32	32	38	43	
	(mm)	550	820	820	960	1100	
Maximum Operating Excess	(Air)	400%	600%	800%	800%	800%	
	(Fuel)	30%	30%	30%	30%	30%	

NOTES:

1. 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.

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

3. Fuel inlet pressures 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; for detection limits refer to the Burner Operating and Ignition Window.

6. Ignition via IPG5413 gas pilot; for ignition limits refer to the Burner Operating and Ignition Window.

Burner Capacity Information, BBC 1110/2110

LIQUID PROPANE, AMBIENT COMBUSTION AIR OPERATION, LIQUID PROPANE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
	(BTU/hr)	3,050,000	9,780,000	13,280,000	16,150,000	18,750,000	
Capacity (at 20% Excess Air)	(kW)	810	2,590	3,510	4,270	4,960	
Secondary Air Capacity	(scfh)	23,000	98,000	137,000	169,000	198,000	
	(nm ³ /hr)	616	2,625	3,670	4,527	5,304	
Secondary Air Inlet Pressure	(in.w.c.) (mbar)	0.3 0.7	6.9 17.2	13.9 34.5	20.8 51.7	27.7 68.9	
Primary Air Capacity	(scfh)	11,000	11,000	11,000	11,000	11,000	
Fillinally All Capacity	(nm ³ /hr)	295	295	295	295	295	
Primary Air Inlet Pressure	(in.w.c.)	24.2	24.2	24.2	24.2	24.2	
Thinary All Inlet Tressure	(mbar)	60.2	60.2	60.2	60.2	60.2	
Liquid Propane Flow	(gph)	33	107	145	176	205	
	(lph)	126	404	549	668	776	
Liquid Propane Inlet Pressure	(psig)	1	15	28	41	56	
	(bar)	0.1	1.0	1.9	2.8	3.8	
Flame Length (at 20% Excess Air)	(in)	84	108	120	132	144	
Tiame Eengin (at 20% Excess All)	(mm)	2130	2740	3050	3350	3660	
Flame Diameter(at 20% Excess Air)	(in)	24	36	36	48	48	
Tiame Diameter (at 20% Excess Air)	(mm)	610	910	910	1220	1220	
Maximum Operating Excess	(Air)	300%	400%	400%	500%	500%	
Maximum Operating Excess	(Fuel)	30%	30%	30%	30%	30%	

NO. 6 FUEL OIL, AMBIENT COMBUSTION AIR OPERATION, HIGH PRESSURE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 20% Excess Air)	(BTU/hr)	2,740,000	9,200,000	12,530,000	15,270,000	17,750,000	
	(kW)	720	2,430	3,310	4,040	4,690	
Secondary Air Capacity	(scfh)	23,000	98,000	137,000	169,000	198,000	
	(nm ³ /hr)	616	2,625	3,670	4,527	5,304	
Secondary 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	
Primary Air Capacity	(scfh)	8,000	8,000	8,000	8,000	8,000	
	(nm ³ /hr)	214	214	214	214	214	
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	
Atomizing Air Capacity	(scfh)	1,142	1,795	1,877	1,958	2,000	
	(nm ³ /hr)	31	48	50	52	54	
Atomizing Air Inlet Pressure	(psig)	32	60	72	76	80	
	(bar)	2.2	4.1	5.0	5.2	5.5	
Fuel Oil Flow	(gph)	18	61	84	102	118	
	(lph)	69	231	318	386	447	
Fuel Oil Inlet Pressure	(psig)	35	64	80	86	90	
	(bar)	2.4	4.4	5.5	5.9	6.2	
Flame Length(at 20% Excess Air)	(in)	72	108	120	132	144	
	(mm)	1830	2740	3050	3350	3660	
Flame Diameter(at 20% Excess Air)	(in)	24	36	36	42	48	
	(mm)	610	910	910	1070	1220	
Maximum Operating Excess	(Air)	100%	300%	400%	400%	400%	
	(Fuel)	30%	30%	30%	30%	30%	

NOTES:

 Capacities based on 1) Liquid Propane with HHV of 91,500 BTU/gal (Standard) / LHV of 6.5 kWh/liter (Metric), 0.51 S.G.,and a stoichiometric ratio of 850:1 at 20% excess air, or 2) No. 6 Fuel Oil with HHV of 150,000 BTU/USgal (Standard) / LHV of 11.2 kWh/liter (Metric), 1.02 S.G., and a stoichiometric ratio of 1465:1 at 20% excess air; all cases with burner firing into chamber under no pressure.

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

3. Fuel inlet pressures 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; for detection limits refer to the Burner Operating and Ignition Window.

6. Ignition via IPG5413 gas pilot; for ignition limits refer to the Burner Operating and Ignition Window.

7. 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.



Burner Capacity Information, BBC 1112/2112

NATURAL GAS, AMBIENT COMBUSTION AIR OPERATION, LOW PRESSURE ATOMIZATION

SPECIFICATIONS	OPERATIONAL INFORMATION						
Capacity (at 10% Excess Air)	(BTU/hr)	3,500,000	13,640,000	18,920,000	23,050,000	26,420,000	
Capacity (at 10% Excess Air)	(kW)	930	3,610	5,000	6,100	6,990	
Secondary Air Capacity	(scfh)	27,500	132,500	187,250	230,000	265,000	
Secondary All Capacity	(nm ³ /hr)	737	3,549	5,016	6,161	7,099	
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7	
Occondary An Inter Tressure	(mbar)	0.7	17.2	34.5	51.7	68.9	
Primary Air Capacity	(scfh)	8,800	8,800	8,800	8,800	8,800	
	(nm ³ /hr)	236	236	236	236	236	
Primary Air Inlet Pressure	(in.w.c.)	6.9	6.9	6.9	6.9	6.9	
T filling All fillet i lessure	(mbar)	17.2	17.2	17.2	17.2	17.2	
Gas Inlet Pressure	(in.w.c.)	0.1	1.6	3.0	4.5	5.9	
Gas inlet Pressure	(mbar)	0.2	4.0	7.5	11.1	14.6	
Flame Length (at 10% Excess Air)	(in)	60	120	168	174	180	
Tiame Length (at 10% Excess Air)	(mm)	1520	3050	4270	4420	4570	
Flame Diameter (at 10% Excess Air	(in)	24	24	36	48	48	
Tiame Diameter (at 10% Excess Air	(mm)	610	610	910	1220	1220	
Maximum Operating Excess	(Air)	300%	400%	400%	500%	500%	
	(Fuel)	30%	30%	30%	30%	30%	

Burner Capacity Information, BBC 3112

NATURAL GAS, 900°F/482°C PREHEATED SECONDARY AIR OPERATION, LOW PRESSURE ATOMIZATION

SPECIFICATIONS			OPERATIONAL INFORMATION						
Capacity (at 10% Excess Air)	(BTU/hr)		8,770,000	12,040,000	14,590,000	16,680,000			
	(kW)	660	2,320	3,180	3,860	4,410			
Secondary Air Capacity	(scfh)	17,025	82,028	115,923	142,388	164,056			
eccondary / II Capabily	(nm ³ /hr)	456	2,197	3,105	3,814	4,395			
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7			
Secondary All Inlet I ressure	(mbar)	0.7	17.2	34.5	51.7	68.9			
Primary Air Capacity	(scfh)	8,800	8,800	8,800	8,800	8,800			
Fillinary All Capacity	(nm ³ /hr)	236	236	236	236	236			
Primary Air Inlet Pressure	(in.w.c.)	6.9	6.9	6.9	6.9	6.9			
Fillinary All Inlet Flessure	(mbar)	17.2	17.2	17.2	17.2	17.2			
Gas Inlet Pressure	(in.w.c.)	0.1	1.2	2.3	3.4	4.4			
Gas milet Pressure	(mbar)	0.2	3.0	5.7	8.4	11.0			
Flame Length (at 10% Excess Air)	(in)	45	90	126	131	135			
Tiame Length (at 10% Excess Air)	(mm)	1140	2290	3200	3310	3430			
Flame Diameter (at 10% Excess Air	(in)	22	22	32	43	43			
Fiame Diameter (at 10% Excess Air	(mm)	550	550	820	1100	1100			
Maximum Operating Excess	(Air)	240%	320%	320%	400%	400%			
Maximum Operating Excess	(Fuel)	30%	30%	30%	30%	30%			

NOTES:

 Capacities based on Natural Gas with HHV of 1034 BTU/ft³ (Standard) / LHV of 10.21 kWh/nm3 (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.

stoicniometric ratio of 9.74:1 at 10% excess air; with burner firing into chamber under no pressure.

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

3. Fuel inlet pressures 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; for detection limits refer to the Burner Operating and Ignition Window.

6. Ignition via IPG5413 gas pilot; for ignition limits refer to the Burner Operating and Ignition Window.

7. 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.

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

HAUCK MANUFACTURING CO., 100 North Harris Street Cleona, PA 17042 717-272-3051 4/14 www.hauckburner.com Fax: 717-273-9882

Burner Capacity Information, BBC 1112/2112

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

SPECIFICATIONS		OPERATIONAL INFORMATION					
	(BTU/hr)	3,750,000	12,500,000	17,060,000	20,630,000	23,540,000	
Capacity (at 20% Excess Air)	(kW)	990	3,310	4,510	5,460	6,230	
Secondary Air Capacity	(scfh)	27,500	132,500	187,250	230,000	265,000	
Secondary All Capacity	(nm ³ /hr)	737	3,549	5,016	6,161	7,099	
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7	
Secondary All Inlet Pressure	(mbar)	0.7	17.2	34.5	51.7	68.9	
Primary Air Capacity	(scfh)	17,500	17,500	17,500	17,500	17,500	
	(nm ³ /hr)	469	469	469	469	469	
Primary Air Inlet Pressure	(in.w.c.)	24.2	24.2	24.2	24.2	24.2	
Thinary All Inlet Tressure	(mbar)	60.2	60.2	60.2	60.2	60.2	
Fuel Oil Flow(at 20% Excess Air)	(gph)	27	91	124	149	171	
T UET OIT T IOW(at 20% Excess All)	(lph)	103	343	468	566	646	
Flame Length (at 20% Excess Air)	(in)	84	120	132	144	156	
Tiame Length (at 20% Excess All)	(mm)	2130	3050	3350	3660	3960	
Flame Diameter (at 20% Excess Air	(in)	24	36	36	42	48	
Tiame Diameter (at 20% Excess Air	(mm)	610	910	910	1070	1220	
Maximum Operating Excess	(Air)	500%	750%	1000%	1000%	1000%	
	(Fuel)	30%	30%	30%	30%	30%	

Burner Capacity Information, BBC 3112

NO. 2 FUEL OIL, 900°F/482°C PREHEATED SECONDARY AIR OPERATION, LOW PRESSURE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 20% Excess Air)	(BTU/hr)	2,880,000	8,290,000	11,120,000	13,320,000	15,130,000	
	(kW)	760	2,190	2,940	3,520	4,000	
Secondary Air Capacity	(scfh)	17,025	82,028	115,923	142,388	164,056	
	(nm ³ /hr)	456	2,197	3,105	3,814	4,395	
Secondary 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	
Primary Air Capacity	(scfh)	17,500	17,500	17,500	17,500	17,500	
	(nm ³ /hr)	469	469	469	469	469	
Primary Air Inlet Pressure	(in.w.c.)	24.2	24.2	24.2	24.2	24.2	
	(mbar)	60.2	60.2	60.2	60.2	60.2	
Fuel Oil Flow(at 20% Excess Air)	(gph)	21	60	81	97	110	
	(lph)	79	227	305	365	415	
Flame Length(at 20% Excess Air)	(in)	63	90	99	108	117	
	(mm)	1600	2290	2510	2740	2970	
Flame Diameter(at 20% Excess Air)	(in)	22	32	32	38	43	
	(mm)	550	820	820	960	1100	
Maximum Operating Excess	(Air)	400%	600%	800%	800%	800%	
	(Fuel)	30%	30%	30%	30%	30%	

NOTES:

1. 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.

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

3. Fuel inlet pressures 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; for detection limits refer to the Burner Operating and Ignition Window.

6. Ignition via IPG5413 gas pilot; for ignition limits refer to the Burner Operating and Ignition Window.

Burner Capacity Information, BBC 1112/2112

LIQUID PROPANE, AMBIENT COMBUSTION AIR OPERATION, LIQUID PROPANE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
	(BTU/hr)	4,040,000	13,460,000	18,370,000	22,200,000	25,340,000	
Capacity (at 20% Excess Air)	(kW)	1,070	3,560	4,860	5,870	6,700	
Secondary Air Capacity	(scfh)	27,500	132,500	187,250	230,000	265,000	
eccondary / III Capacity	(nm ³ /hr)	737	3,549	5,016	6,161	7,099	
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7	
Secondary All Inlet Tressure	(mbar)	0.7	17.2	34.5	51.7	68.9	
Primary Air Capacity	(scfh)	17,500	17,500	17,500	17,500	17,500	
Fillinary All Capacity	(nm ³ /hr)	469	469	469	469	469	
Primary Air Inlet Pressure	(in.w.c.)	24.2	24.2	24.2	24.2	24.2	
Fillinary All Inlet Flessure	(mbar)	60.2	60.2	60.2	60.2	60.2	
Liquid Bronono Flow	(gph)	44	147	201	243	277	
Liquid Propane Flow	(lph)	167	557	760	918	1,048	
Liquid Propane Inlet Pressure	(psig)	3	29	53	78	102	
Liquid Froparie Inier Fressure	(bar)	0.2	2.0	3.7	5.4	7.0	
Flome Longth (+) 00% Frank (+)	(in)	84	108	120	132	144	
Flame Length (at 20% Excess Air)	(mm)	2130	2740	3050	3350	3660	
Flame Diameter(at 20% Excess Air)	(in)	24	36	36	48	48	
Fidilie Dialitetel (at 20% Excess Alr)	(mm)	610	910	910	1220	1220	
Maximum Operating Excess	(Air)	300%	400%	400%	500%	500%	
waximum Operating Excess	(Fuel)	30%	30%	30%	30%	30%	

NO. 6 FUEL OIL, AMBIENT COMBUSTION AIR OPERATION, HIGH PRESSURE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 20% Excess Air)	(BTU/hr)	3,670,000	12,690,000	17,370,000	21,020,000	24,010,000	
	(kW)	970	3,360	4,590	5,560	6,350	
Secondary 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	
Secondary 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	
Primary Air Capacity	(scfh)	14,400	14,400	14,400	14,400	14,400	
	(nm ³ /hr)	386	386	386	386	386	
Primary Air Inlet Pressure	(in.w.c.)	7.0	7.0	7.0	7.0	7.0	
	(mbar)	17.4	17.4	17.4	17.4	17.4	
Atomizing Air Capacity	(scfh)	1,142	1,795	1,877	1,958	2,000	
	(nm ³ /hr)	31	48	50	52	54	
Atomizing Air Inlet Pressure	(psig)	32	60	72	76	80	
	(bar)	2.2	4.1	5.0	5.2	5.5	
Fuel Oil Flow	(gph)	24	85	116	140	160	
	(lph)	93	322	439	530	606	
Fuel Oil Inlet Pressure	(psig)	35	64	80	86	90	
	(bar)	2.4	4.4	5.5	5.9	6.2	
Flame Length(at 20% Excess Air)	(in)	72	108	120	132	144	
	(mm)	1830	2740	3050	3350	3660	
Flame Diameter(at 20% Excess Air)	(in)	24	36	36	42	48	
	(mm)	610	910	910	1070	1220	
Maximum Operating Excess	(Air)	100%	300%	400%	400%	400%	
	(Fuel)	30%	30%	30%	30%	30%	

NOTES:

 Capacities based on 1) Liquid Propane with HHV of 91,500 BTU/gal (Standard) / LHV of 6.5 kWh/liter (Metric), 0.51 S.G.,and a stoichiometric ratio of 850:1 at 20% excess air, or 2) No. 6 Fuel Oil with HHV of 150,000 BTU/USgal (Standard) / LHV of 11.2 kWh/liter (Metric), 1.02 S.G., and a stoichiometric ratio of 1465:1 at 20% excess air; all cases with burner firing into chamber under no pressure.

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

3. Fuel inlet pressures 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; for detection limits refer to the Burner Operating and Ignition Window.

6. Ignition via IPG5413 gas pilot; for ignition limits refer to the Burner Operating and Ignition Window.

7. 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.



Burner Capacity Information, BBC 1114/2114

NATURAL GAS, AMBIENT COMBUSTION AIR OPERATION, LOW PRESSURE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
	(BTU/hr)	5,360,000	20,600,000	28,520,000	34,650,000	39,810,000	
Capacity (at 10% Excess Air)	(kW)	1,420	5,450	7,540	9,160	10,530	
Secondary Air Capacity	(scfh)	40,000	198,000	280,000	343,500	397,000	
Secondary All Capacity	(nm ³ /hr)	1,072	5,304	7,501	9,202	10,635	
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7	
Secondary All Inlet Pressure	(mbar)	0.7	17.2	34.5	51.7	68.9	
Primary Air Capacity	(scfh)	15,500	15,500	15,500	15,500	15,500	
Fillinary All Capacity	(nm ³ /hr)	415	415	415	415	415	
Primary Air Inlet Pressure	(in.w.c.)	6.9	6.9	6.9	6.9	6.9	
Fillinary All Inlet Flessure	(mbar)	17.2	17.2	17.2	17.2	17.2	
Gas Inlet Pressure	(in.w.c.)	0.0	0.3	0.6	0.9	1.2	
Gas inlet Pressure	(mbar)	0.0	0.7	1.5	2.2	3.0	
Flame Length (at 10% Excess Air)	(in)	60	144	156	168	180	
Tiame Length (at 10% Excess All)	(mm)	1520	3660	3960	4270	4570	
Flame Diameter (at 10% Excess Air	(in)	24	36	48	54	60	
I Tame Diameter (at 10% Excess Air	(mm)	610	910	1220	1370	1520	
Maximum Operating Excess	(Air)	100%	400%	400%	500%	500%	
Maximum Operating Excess	(Fuel)	30%	30%	30%	30%	30%	

Burner Capacity Information, BBC 3114

NATURAL GAS, 900°F/482°C PREHEATED SECONDARY AIR OPERATION, LOW PRESSURE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 10% Excess Air)	(BTU/hr)	3,890,000	13,330,000	18,230,000	22,020,000	25,220,000	
	(kW)	1,030	3,530	4,820	5,820	6,670	
Secondary Air Capacity	(scfh)	24,763	122,578	173,342	212,654	245,775	
	(nm ³ /hr)	663	3,284	4,643	5,697	6,584	
Secondary 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	
Primary Air Capacity	(scfh)	15,500	15,500	15,500	15,500	15,500	
	(nm ³ /hr)	415	415	415	415	415	
Primary Air Inlet Pressure	(in.w.c.)	6.9	6.9	6.9	6.9	6.9	
	(mbar)	17.2	17.2	17.2	17.2	17.2	
Gas Inlet Pressure	(in.w.c.)	0.0	0.2	0.5	0.7	0.9	
	(mbar)	0.0	0.6	1.1	1.7	2.3	
Flame Length (at 10% Excess Air)	(in)	45	108	117	126	135	
	(mm)	1140	2740	2970	3200	3430	
Flame Diameter (at 10% Excess Air	(in)	22	32	43	49	54	
	(mm)	550	820	1100	1230	1370	
Maximum Operating Excess	(Air)	80%	320%	320%	400%	400%	
	(Fuel)	30%	30%	30%	30%	30%	

NOTES:

1. Capacities based on Natural Gas with HHV of 1034 BTU/ft³ (Standard) / LHV of 10.21 kWh/nm3 (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.

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

3. Fuel inlet pressures 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; for detection limits refer to the Burner Operating and Ignition Window.

6. Ignition via IPG5413 gas pilot; for ignition limits refer to the Burner Operating and Ignition Window.

7. 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.

(OVER) 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 www.hauckburner.com Fax: 717-273-9882

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Burner Capacity Information, BBC 1114/2114

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

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 20% Excess Air)	(BTU/hr)	5,920,000	19,080,000	25,920,000	31,210,000	35,670,000	
Capacity (at 20% Excess Air)	(kW)	1,570	5,050	6,860	8,260	9,430	
Secondary Air Capacity	(scfh)	40,000	198,000	280,000	343,500	397,000	
Secondary All Capacity	(nm ³ /hr)	1,072	5,304	7,501	9,202	10,635	
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7	
Secondary All Inlet Tressure	(mbar)	0.7	17.2	34.5	51.7	68.9	
Primary Air Capacity	(scfh)	31,000	31,000	31,000	31,000	31,000	
	(nm ³ /hr)	830	830	830	830	830	
Primary Air Inlet Pressure	(in.w.c.)	24.2	24.2	24.2	24.2	24.2	
Thinary All Inlet Tressure	(mbar)	60.2	60.2	60.2	60.2	60.2	
Fuel Oil Flow(at 20% Excess Air)	(gph)	43	138	188	226	258	
T del OII T IOW(at 20% Excess All)	(lph)	162	523	711	856	978	
Flame Length (at 20% Excess Air)	(in)	60	156	168	180	192	
Tiame Lengtin (at 20% Excess All)	(mm)	1520	3960	4270	4570	4880	
Flame Diameter (at 20% Excess Air	(in)	24	48	48	54	60	
Tiame Diameter (at 20% Excess Air	(mm)	610	1220	1220	1370	1520	
Maximum Operating Excess	(Air)	150%	500%	500%	500%	500%	
	(Fuel)	30%	30%	30%	30%	30%	

Burner Capacity Information, BBC 3114

NO. 2 FUEL OIL, 900°F/482°C PREHEATED SECONDARY AIR OPERATION, LOW PRESSURE ATOMIZATION

SPECIFICATIONS			OPERATIONAL INFORMATION					
Capacity (at 20% Excess Air)	(BTU/hr)	4,650,000	12,800,000	17,030,000	20,300,000	23,060,000		
	(kW)	1,230	3,390	4,500	5,370	6,100		
Secondary Air Capacity	(scfh)	24,763	122,578	173,342	212,654	245,775		
	(nm ³ /hr)	663	3,284	4,643	5,697	6,584		
Secondary 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		
Primary Air Capacity	(scfh)	31,000	31,000	31,000	31,000	31,000		
	(nm ³ /hr)	830	830	830	830	830		
Primary Air Inlet Pressure	(in.w.c.)	24.2	24.2	24.2	24.2	24.2		
	(mbar)	60.2	60.2	60.2	60.2	60.2		
Fuel Oil Flow(at 20% Excess Air)	(gph)	34	93	123	147	167		
	(lph)	127	351	467	557	633		
Flame Length(at 20% Excess Air)	(in)	45	117	126	135	144		
	(mm)	1140	2970	3200	3430	3660		
Flame Diameter(at 20% Excess Air)	(in)	22	43	43	49	54		
	(mm)	550	1100	1100	1230	1370		
Maximum Operating Excess	(Air)	120%	400%	400%	400%	400%		
	(Fuel)	30%	30%	30%	30%	30%		

NOTES:

1. 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.

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

3. Fuel inlet pressures 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; for detection limits refer to the Burner Operating and Ignition Window.

6. Ignition via IPG5413 gas pilot; for ignition limits refer to the Burner Operating and Ignition Window.

Burner Capacity Information, BBC 1114/2114

LIQUID PROPANE, AMBIENT COMBUSTION AIR OPERATION, LIQUID PROPANE ATOMIZATION

SPECIFICATIONS	OPERATIONAL INFORMATION					
Capacity (at 20% Excess Air)	(BTU/hr)	6,370,000	20,540,000	27,900,000	33,590,000	38,390,000
Capacity (at 20% Excess Air)	(kW)	1,680	5,430	7,380	8,880	10,150
Secondary 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
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7
Occondary All Inici Tressure	(mbar)	0.7	17.2	34.5	51.7	68.9
Primary Air Capacity	(scfh)	31,000	31,000	31,000	31,000	31,000
Fillinary All Capacity	(nm ³ /hr)	830	830	830	830	830
Primary Air Inlet Pressure	(in.w.c.)	24.2	24.2	24.2	24.2	24.2
Fillinary All Inlet Flessure	(mbar)	60.2	60.2	60.2	60.2	60.2
Liquid Propane Flow	(gph)	70	225	305	367	420
LIQUID FTOPATIE FIOW	(lph)	263	850	1,154	1,390	1,588
Liquid Propane Inlet Pressure	(psig)	3	31	57	83	109
Liquid Floparie Inier Flessure	(bar)	0.2	2.1	4.0	5.7	7.5
Eleme Length (+) 200(E + + + + +)	(in)	60	144	156	168	180
Flame Length (at 20% Excess Air)	(mm)	1520	3660	3960	4270	4570
Flame Diameter(at 20% Excess Air)	(in)	24	42	48	54	60
Fiame Diameter(at 20% Excess Air)	(mm)	610	1070	1220	1370	1520
Maximum Operating Excess	(Air)	150%	400%	400%	500%	500%
waximum Operating Excess	(Fuel)	30%	30%	30%	30%	30%

NO. 6 FUEL OIL, AMBIENT COMBUSTION AIR OPERATION, HIGH PRESSURE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 20% Excess Air)	(BTU/hr)	5,330,000	18,820,000	25,830,000	31,270,000	35,840,000	
	(kW)	1,410	4,980	6,830	8,270	9,480	
Secondary 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	
Secondary 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	
Primary Air Capacity	(scfh)	20,000	20,000	20,000	20,000	20,000	
	(nm ³ /hr)	536	536	536	536	536	
Primary Air Inlet Pressure	(in.w.c.)	2.0	2.0	2.0	2.0	2.0	
	(mbar)	5.0	5.0	5.0	5.0	5.0	
Atomizing Air Capacity	(scfh)	2,475	2,555	2,715	2,955	3,000	
	(nm ³ /hr)	66	68	73	79	80	
Atomizing Air Inlet Pressure	(psig)	18	25	34	40	45	
	(bar)	1.2	1.7	2.3	2.8	3.1	
Fuel Oil Flow	(gph)	36	125	172	208	239	
	(lph)	135	473	651	787	905	
Fuel Oil Inlet Pressure	(psig)	19	26	36	42	48	
	(bar)	1.3	1.8	2.5	2.9	3.3	
Flame Length(at 20% Excess Air)	(in)	72	120	132	144	156	
	(mm)	1830	3050	3350	3660	3960	
Flame Diameter(at 20% Excess Air)	(in)	24	36	36	42	48	
	(mm)	610	910	910	1070	1220	
Maximum Operating Excess	(Air)	150%	400%	500%	500%	600%	
	(Fuel)	30%	30%	30%	30%	30%	

NOTES:

1. Capacities based on 1) Liquid Propane with HHV of 91,500 BTU/gal (Standard) / LHV of 6.5 kWh/liter (Metric), 0.51 S.G.,and a stoichiometric ratio of 850:1 at 20% excess air, or 2) No. 6 Fuel Oil with HHV of 150,000 BTU/USgal (Standard) / LHV of 11.2 kWh/liter (Metric), 1.02 S.G., and a stoichiometric ratio of 1465:1 at 20% excess air; all cases with burner firing into chamber under no pressure.

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

3. Fuel inlet pressures 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; for detection limits refer to the Burner Operating and Ignition Window.

6. Ignition via IPG5413 gas pilot; for ignition limits refer to the Burner Operating and Ignition Window.

7. 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.



Burner Capacity Information, BBC 1118/2118

NATURAL GAS, AMBIENT COMBUSTION AIR OPERATION, LOW PRESSURE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 10% Excess Air)	(BTU/hr)	8,160,000	33,830,000	47,290,000	57,470,000	66,160,000	
Capacity (at 10% Excess Air)	(kW)	2,160	8,950	12,510	15,200	17,500	
Secondary Air Capacity	(scfh)	69,000	335,000	474,500	580,000	670,000	
Secondary All Capacity	(nm ³ /hr)	1,848	8,974	12,711	15,537	17,948	
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7	
Secondary All Inlet Pressure	(mbar)	0.7	17.2	34.5	51.7	68.9	
Primary Air Capacity	(scfh)	15,500	15,500	15,500	15,500	15,500	
Filliary All Capacity	(nm ³ /hr)	415	415	415	415	415	
Primary Air Inlet Pressure	(in.w.c.)	6.9	6.9	6.9	6.9	6.9	
Fillinary All Inlet Flessure	(mbar)	17.2	17.2	17.2	17.2	17.2	
Gas Inlet Pressure	(in.w.c.)	0.1	3.3	6.5	9.6	12.7	
Cas inlet i lessure	(mbar)	0.2	8.2	16.2	23.9	31.6	
Flame Length (at 10% Excess Air)	(in)	96	156	168	180	216	
Tiame Length (at 10% Excess All)	(mm)	2440	3960	4270	4570	5490	
Flame Diameter (at 10% Excess Air	(in)	36	48	54	60	66	
Traine Drameter (at 10% Excess Air	(mm)	910	1220	1370	1520	1680	
Maximum Operating Excess	(Air)	250%	400%	500%	600%	600%	
	(Fuel)	30%	30%	30%	30%	30%	

Burner Capacity Information, BBC 3118

NATURAL GAS, 900°F/482°C PREHEATED SECONDARY AIR OPERATION, LOW PRESSURE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 10% Excess Air)	(BTU/hr)	5,620,000	21,510,000	29,850,000	36,150,000	41,530,000	
Capacity (at 1070 Exects All)	(kW)	1,490	5,690	7,900	9,560	10,980	
Secondary Air Capacity	(scfh)	42,717	207,392	293,753	359,066	414,784	
	(nm ³ /hr)	1,144	5,556	7,869	9,619	11,111	
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7	
Secondary All Inlet I lessure	(mbar)	0.7	17.2	34.5	51.7	68.9	
Primary Air Capacity	(scfh)	15,500	15,500	15,500	15,500	15,500	
T finally All Capacity	(nm ³ /hr)	415	415	415	415	415	
Primary Air Inlet Pressure	(in.w.c.)	6.9	6.9	6.9	6.9	6.9	
Fillinary All Inlet Flessure	(mbar)	17.2	17.2	17.2	17.2	17.2	
Gas Inlet Pressure	(in.w.c.)	0.1	2.5	4.9	7.3	9.6	
Gas inlet Pressure	(mbar)	0.2	6.2	12.3	18.1	24.0	
Flame Length (at 10% Excess Air)	(in)	72	117	126	135	162	
Tiame Length (at 10% Excess Air)	(mm)	1830	2970	3200	3430	4110	
Flame Diameter (at 10% Excess Air	(in)	32	43	49	54	59	
Fidme Diametel (at 10% Excess All	(mm)	820	1100	1230	1370	1510	
Maximum Operating Excess	(Air)	200%	320%	400%	480%	480%	
Maximum Operating Excess	(Fuel)	30%	30%	30%	30%	30%	

NOTES:

1. Capacities based on Natural Gas with HHV of 1034 BTU/ft³ (Standard) / LHV of 10.21 kWh/nm3 (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.

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

3. Fuel inlet pressures 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; for detection limits refer to the Burner Operating and Ignition Window.

6. Ignition via IPG5413 gas pilot; for ignition limits refer to the Burner Operating and Ignition Window.

7. 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.

(OVER) 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, BBC 1118/2118

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

SPECIFICATIONS		OPERATIONAL INFORMATION					
	(BTU/hr)	8,330,000	30,500,000	42,130,000	50,920,000	58,420,000	
Capacity (at 20% Excess Air)	(kW)	2,200	8,070	11,140	13,470	15,450	
Secondary Air Capacity	(scfh)	69,000	335,000	474,500	580,000	670,000	
Occontrary / III Oapacity	(nm ³ /hr)	1,848	8,974	12,711	15,537	17,948	
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7	
Secondary All Inlet I lessure	(mbar)	0.7	17.2	34.5	51.7	68.9	
Primary Air Capacity	(scfh)	31,000	31,000	31,000	31,000	31,000	
	(nm ³ /hr)	830	830	830	830	830	
Primary Air Inlet Pressure	(in.w.c.)	24.2	24.2	24.2	24.2	24.2	
Thinary All Inlet Tressure	(mbar)	60.2	60.2	60.2	60.2	60.2	
Fuel Oil Flow(at 20% Excess Air)	(gph)	60	221	305	369	423	
T UET OIT T IOW(at 20% Excess All)	(lph)	228.6	837	1,155	1,397	1,602	
Flame Length (at 20% Excess Air)	(in)	60	156	216	240	252	
Tiame Lengtin (at 20% Excess All)	(mm)	1520	3960	5490	6100	6400	
Flame Diameter (at 20% Excess Air	(in)	24	42	48	48	54	
Tiame Diameter (at 20% Excess Air	(mm)	610	1070	1220	1220	1370	
Maximum Operating Excess	(Air)	100%	300%	400%	500%	500%	
	(Fuel)	30%	30%	30%	30%	30%	

Burner Capacity Information, BBC 3118

NO. 2 FUEL OIL, 900°F/482°C PREHEATED SECONDARY AIR OPERATION, LOW PRESSURE ATOMIZATION

SPECIFICATIONS			OPERATIONAL INFORMATION					
Capacity (at 20% Excess Air)	(BTU/hr)	6,140,000	19,870,000	27,060,000	32,510,000	37,150,000		
	(kW)	1,620	5,260	7.160	8,600	9,830		
Secondary Air Capacity	(scfh)	42,717	207,392	293,753	359,066	414,784		
Secondary Air Inlet Pressure	(nm ³ /hr)	1,144	5,556	7,869	9,619	11,111		
	(in.w.c.)	0.3	6.9	13.9	20.8	27.7		
	(mbar)	0.7	17.2	34.5	51.7	68.9		
	(scfh)	31,000	31,000	31,000	31,000	31,000		
Primary Air Capacity	(nm ³ /hr)	830	830	830	830	830		
Primary Air Inlet Pressure	(in.w.c.)	24.2	24.2	24.2	24.2	24.2		
	(mbar)	60.2	60.2	60.2	60.2	60.2		
Fuel Oil Flow(at 20% Excess Air)	(gph)	45	144	196	236	269		
	(lph)	168.5	545	742	892	1,019		
Flame Length(at 20% Excess Air)	(in)	45	117	162	180	189		
	(mm)	1140	2970	4110	4570	4800		
Flame Diameter(at 20% Excess Air)	(in)	22 550	38 960	43 1100	43 1100	49 1230		
Maximum Operating Excess	(Air)	80%	240%	320%	400%	400%		
	(Fuel)	30%	30%	30%	30%	30%		

NOTES:

1. 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.

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

3. Fuel inlet pressures 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; for detection limits refer to the Burner Operating and Ignition Window.

6. Ignition via IPG5413 gas pilot; for ignition limits refer to the Burner Operating and Ignition Window.

Burner Capacity Information, BBC 1118/2118

LIQUID PROPANE, AMBIENT COMBUSTION AIR OPERATION, LIQUID PROPANE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 20% Excess Air)	(BTU/hr)	8,970,000	32,830,000	45,350,000	54,810,000	62,880,000	
Capacity (at 20% Excess Air)	(kW)	2,370	8,680	12,000	14,500	16,630	
Secondary Air Capacity	(scfh)	69,000	335,000	474,500	580,000	670,000	
eccondary / III capacity	(nm ³ /hr)	1,848	8,974	12,711	15,537	17,948	
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7	
Secondary All Inlet Pressure	(mbar)	0.7	17.2	34.5	51.7	68.9	
Primary Air Capacity	(scfh)	31,000	31,000	31,000	31,000	31,000	
Fillinally All Capacity	(nm ³ /hr)	830	830	830	830	830	
Primary Air Inlet Pressure	(in.w.c.)	24.2	24.2	24.2	24.2	24.2	
Fillinally All Inlet Flessure	(mbar)	60.2	60.2	60.2	60.2	60.2	
Liquid Propane Flow	(gph)	98	359	496	599	687	
LIQUID FTOPATIE FIOW	(lph)	371.1	1,358	1,876	2,267	2,601	
Liquid Propane Inlet Pressure	(psig)	3	43	81	119	157	
Liquid Floparie Inier Flessure	(bar)	0.2	2.9	5.6	8.2	10.8	
Flame Length (at 20% Excess Air)	(in)	60	144	156	216	240	
Flame Length (at 20% Excess Air)	(mm)	1520	3660	3960	5490	6100	
Flame Diameter(at 20% Excess Air)	(in)	24	42	48	54	60	
i lame Diametel (at 20% Excess Alr)	(mm)	610	1070	1220	1370	1520	
Maximum Operating Excess	(Air)	100%	300%	400%	500%	500%	
Maximum Operating Excess	(Fuel)	30%	30%	30%	30%	30%	

NO. 6 FUEL OIL, AMBIENT COMBUSTION AIR OPERATION, HIGH PRESSURE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 20% Excess Air)	(BTU/hr)	8,730,000	31,470,000	43,420,000	52,430,000	60,120,000	
	(kW)	2,310	8,320	11,480	13,870	15,900	
Secondary 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	
Secondary 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	
Primary Air Capacity	(scfh)	31,000	31,000	31,000	31,000	31,000	
	(nm ³ /hr)	830	830	830	830	830	
Primary Air Inlet Pressure	(in.w.c.)	6.0	6.0	6.0	6.0	6.0	
	(mbar)	14.9	14.9	14.9	14.9	14.9	
Atomizing Air Capacity	(scfh)	2,280	2,880	3,360	3,450	3,600	
	(nm ³ /hr)	61	77	90	92	96	
Atomizing Air Inlet Pressure	(psig)	18	44	64	74	84	
	(bar)	1.2	3.0	4.4	5.1	5.8	
Fuel Oil Flow	(gph)	58	210	289	350	401	
	(lph)	220	795	1,094	1,325	1,518	
Fuel Oil Inlet Pressure	(psig)	20	47	66	77	88	
	(bar)	1.4	3.2	4.6	5.3	6.1	
Flame Length(at 20% Excess Air)	(in)	84	144	168	192	216	
	(mm)	2130	3660	4270	4880	5490	
Flame Diameter(at 20% Excess Air)	(11111)	24 610	36 910	36 910	42 1070	48 1220	
Maximum Operating Excess	(Air)	200%	300%	300%	300%	300%	
	(Fuel)	30%	30%	30%	30%	30%	

NOTES:

1. Capacities based on 1) Liquid Propane with HHV of 91,500 BTU/gal (Standard) / LHV of 6.5 kWh/liter (Metric), 0.51 S.G.,and a stoichiometric ratio of 850:1 at 20% excess air, or 2) No. 6 Fuel Oil with HHV of 150,000 BTU/USgal (Standard) / LHV of 11.2 kWh/liter (Metric), 1.02 S.G., and a stoichiometric ratio of 1465:1 at 20% excess air; all cases with burner firing into chamber under no pressure.

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

3. Fuel inlet pressures 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; for detection limits refer to the Burner Operating and Ignition Window.

6. Ignition via IPG5413 gas pilot; for ignition limits refer to the Burner Operating and Ignition Window.

7. 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.



Burner Capacity Information, BBC 1120/2120

NATURAL GAS, AMBIENT COMBUSTION AIR OPERATION, LOW PRESSURE ATOMIZATION

SPECIFICATIONS	OPERATIONAL INFORMATION					
Conseiture en a	(BTU/hr)	10,110,000	44,440,000	62,390,000	76,080,000	87,780,000
Capacity (at 10% Excess Air)	(kW)	2,670	11,750	16,500	20,120	23,220
Secondary Air Capacity	(scfh)	93,288	449,013	635,000	776,780	898,025
Secondary All Capacity	(nm ³ /hr)	2,499	12,028	17,010	20,808	24,056
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7
Secondary All Inlet Pressure	(mbar)	0.7	17.2	34.5	51.7	68.9
Primary Air Capacity	(scfh)	11,500	11,500	11,500	11,500	11,500
Fillinary All Capacity	(nm ³ /hr)	308	308	308	308	308
Primary Air Inlet Pressure	(in.w.c.)	6.9	6.9	6.9	6.9	6.9
Fillinary All Inlet Flessure	(mbar)	17.2	17.2	17.2	17.2	17.2
Gas Inlet Pressure	(in.w.c.)	0.1	0.4	0.7	1.1	1.5
Gas Iniel Plessure	(mbar)	0.2	1.0	1.7	2.7	3.7
Flame Length (at 10% Excess Air)	(in)	48	168	192	192	216
Traine Length (at 10% Excess Air)	(mm)	1220	4270	4880	4880	5490
Flame Diameter (at 10% Excess Air	(in)	24	48	48	54	54
Fiame Diameter (at 10% Excess Air	(mm)	610	1220	1220	1370	1370
Maximum Operating Excess	(Air)	250%	500%	550%	600%	650%
Maximum Operating Excess	(Fuel)	30%	30%	30%	30%	30%

Burner Capacity Information, BBC 3120

NATURAL GAS, 900°F/482°C PREHEATED SECONDARY AIR OPERATION, LOW PRESSURE ATOMIZATION

SPECIFICATIONS			OPERATIONAL INFORMATION					
Capacity (at 10% Excess Air)	(BTU/hr)	6,680,000	27,940,000	39,050,000	47,520,000	54,760,000		
Capacity (at 10% Excess All)	(kW)	1,770	7,390	10,330	12,570	14,480		
Secondary Air Capacity	(scfh)	57,753	277,975	393,116	480,889	555,949		
Secondary All Capacity	(nm ³ /hr)	1,547	7,446	10,531	12,882	14,893		
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7		
Secondary All Inlet Pressure	(mbar)	0.7	17.2	34.5	51.7	68.9		
Primary Air Capacity	(scfh)	11,500	11,500	11,500	11,500	11,500		
Fillinary All Capacity	(nm ³ /hr)	308	308	308	308	308		
Primary Air Inlet Pressure	(in.w.c.)	6.9	6.9	6.9	6.9	6.9		
Fillinary All Illiet Flessure	(mbar)	17.2	17.2	17.2	17.2	17.2		
Gas Inlet Pressure	(in.w.c.)	0.1	0.3	0.5	0.8	1.1		
Cas milet i ressure	(mbar)	0.2	0.8	1.3	2.1	2.8		
Flame Length (at 10% Excess Air)	(in)	36	126	144	144	162		
Tiame Length (at 10% Excess All)	(mm)	910	3200	3660	3660	4110		
Flame Diameter (at 10% Evenes Air	(in)	22	43	43	49	49		
Flame Diameter (at 10% Excess Air	(mm)	550	1100	1100	1230	1230		
Maximum Operating Excess	(Air)	200%	400%	440%	480%	520%		
	(Fuel)	30%	30%	30%	30%	30%		

NOTES:

1. Capacities based on Natural Gas with HHV of 1034 BTU/ft³ (Standard) / LHV of 10.21 kWh/nm3 (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.

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

3. Fuel inlet pressures 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; for detection limits refer to the Burner Operating and Ignition Window.

6. Ignition via IPG5413 gas pilot; for ignition limits refer to the Burner Operating and Ignition Window.

7. 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.

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

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

Burner Capacity Information, BBC 1120/2120

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

SPECIFICATIONS	OPERATIONAL INFORMATION					
	(BTU/hr)	10,770,000	40,420,000	55,920,000	67,730,000	77,840,000
Capacity (at 20% Excess Air)	(kW)	2,850	10,690	14,790	17,910	20,590
Secondary Air Capacity	(scfh)	93,288	449,013	635,000	776,780	898,025
Secondary All Capacity	(nm ³ /hr)	2,499	12,028	17,010	20,808	24,056
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7
Secondary All Inlet Pressure	(mbar)	0.7	17.2	34.5	51.7	68.9
Primary Air Capacity	(scfh)	36,000	36,000	36,000	36,000	36,000
Fillinary All Capacity	(nm ³ /hr)	964	964	964	964	964
Primary Air Inlet Pressure	(in.w.c.)	27.7	27.7	27.7	27.7	27.7
Fillinary All Inlet Flessure	(mbar)	68.9	68.9	68.9	68.9	68.9
Fuel Oil Flow(at 20% Excess Air)	(gph)	78	293	405	491	564
T del Oli T low(al 20% Excess All)	(lph)	295.5	1,109	1,534	1,858	2,135
Flame Length (at 20% Excess Air)	(in)	48	144	168	192	192
Tiame Length (at 20% Excess All)	(mm)	1220	3660	4270	4880	4880
Flame Diameter (at 20% Excess Air	(in)	24	36	42	48	48
Fiame Diametel (at 20% Excess All	(mm)	610	910	1070	1220	1220
Maximum Operating Excess	(Air)	250%	350%	400%	450%	500%
Maximum Operating Excess	(Fuel)	30%	30%	30%	30%	30%

Burner Capacity Information, BBC 3120

NO. 2 FUEL OIL, 900°F/482°C PREHEATED SECONDARY AIR OPERATION, LOW PRESSURE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 20% Excess Air)	(BTU/hr)	7,810,000	26,160,000	35,760,000	43,070,000	49,330,000	
Capacity (at 20% Excess All)	(kW)	2,070	6,920	9,460	11,390	13,050	
Secondary Air Capacity	(scfh)	57,753	277,975	393,116	480,889	555,949	
Secondary All Capacity	(nm ³ /hr)	1,547	7,446	10,531	12,882	14,893	
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7	
Secondary All Inlet Pressure	(mbar)	0.7	17.2	34.5	51.7	68.9	
Primary Air Capacity	(scfh)	36,000	36,000	36,000	36,000	36,000	
Fillinary All Capacity	(nm ³ /hr)	964	964	964	964	964	
Primary Air Inlet Pressure	(in.w.c.)	27.7	27.7	27.7	27.7	27.7	
T finally All fillet ressure	(mbar)	68.9	68.9	68.9	68.9	68.9	
Fuel Oil Flow(at 20% Excess Air)	(gph)	57	190	259	312	357	
T del OITT IOW(at 20% Excess All)	(lph)	214.3	718	981	1,181	1,353	
Flame Length(at 20% Excess Air)	(in)	36	108	126	144	144	
Tiame Lengtil(at 20% Excess All)	(mm)	910	2740	3200	3660	3660	
Flame Diameter(at 20% Excess Air)	(in)	22	32	38	43	43	
Fidine Diameter (at 20% Excess All)	(mm)	550	820	960	1100	1100	
Maximum Operating Excess	(Air)	200%	280%	320%	360%	400%	
	(Fuel)	30%	30%	30%	30%	30%	

NOTES:

1. 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.

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

3. Fuel inlet pressures 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; for detection limits refer to the Burner Operating and Ignition Window.

6. Ignition via IPG5413 gas pilot; for ignition limits refer to the Burner Operating and Ignition Window.

Burner Capacity Information, BBC 1120/2120

LIQUID PROPANE, AMBIENT COMBUSTION AIR OPERATION, LIQUID PROPANE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
	(BTU/hr)	11,600,000	43,510,000	60,190,000	72,910,000	83,790,000	
Capacity (at 20% Excess Air)	(kW)	3,070	11,510	15,920	19,280	22,160	
Secondary Air Capacity	(scfh)	93,288	449,013	635,000	776,780	898,025	
eccondary / in capacity	(nm ³ /hr)	2,499	12,028	17,010	20,808	24,056	
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7	
Secondary Air Inlet Tressure	(mbar)	0.7	17.2	34.5	51.7	68.9	
Drimony Air Consoity	(scfh)	36,000	36,000	36,000	36,000	36,000	
Primary Air Capacity	(nm ³ /hr)	964	964	964	964	964	
Primary Air Inlet Pressure	(in.w.c.)	27.7	27.7	27.7	27.7	27.7	
Fillinary All Inlet Flessure	(mbar)	68.9	68.9	68.9	68.9	68.9	
Liquid Dropopo Flow	(gph)	127	476	658	797	916	
Liquid Propane Flow	(lph)	479.8	1,800	2,490	3,016	3,466	
Liquid Propane Inlet Pressure	(psig)	5	75	144	211	278	
Liquid Proparie Iniel Pressure	(bar)	0.4	5.2	9.9	14.5	19.2	
	(in)	48	144	192	192	216	
Flame Length (at 20% Excess Air)	(mm)	1220	3660	4880	4880	5490	
Flame Diameter(at 20% Excess Air)	(in)	24	42	48	54	54	
Fiame Diameter (at 20% Excess Air)	(mm)	610	1070	1220	1370	1370	
Maximum Operating Excess	(Air)	100%	300%	400%	500%	500%	
	(Fuel)	30%	30%	30%	30%	30%	

NO. 6 FUEL OIL, AMBIENT COMBUSTION AIR OPERATION, HIGH PRESSURE ATOMIZATION

SPECIFICATIONS		OPERATIONAL INFORMATION					
Capacity (at 20% Excess Air)	(BTU/hr)	9,140,000	39,540,000	55,450,000	67,550,000	77,910,000	
	(kW)	2,420	10,460	14,670	17,870	20,610	
Secondary 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	
Secondary 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	
Primary Air Capacity	(scfh)	11,500	11,500	11,500	11,500	11,500	
	(nm ³ /hr)	308	308	308	308	308	
Primary Air Inlet Pressure	(in.w.c.)	6.0	6.0	6.0	6.0	6.0	
	(mbar)	14.9	14.9	14.9	14.9	14.9	
Atomizing Air Capacity	(scfh)	2,280	2,880	3,360	3,450	3,600	
	(nm ³ /hr)	61	77	90	92	96	
Atomizing Air Inlet Pressure	(psig)	18	44	64	74	84	
	(bar)	1.2	3.0	4.4	5.1	5.8	
Fuel Oil Flow	(gph)	61	264	370	450	519	
	(lph)	231	999	1,400	1,703	1,964	
Fuel Oil Inlet Pressure	(psig)	20	47	66	77	88	
	(bar)	1.4	3.2	4.6	5.3	6.1	
Flame Length(at 20% Excess Air)	(in)	48	144	168	192	192	
	(mm)	1220	3660	4270	4880	4880	
Flame Diameter(at 20% Excess Air)	(in)	24	42	42	48	48	
	(mm)	610	1070	1070	1220	1220	
Maximum Operating Excess	(Air)	200%	300%	300%	300%	300%	
	(Fuel)	30%	30%	30%	30%	30%	

NOTES:

 Capacities based on 1) Liquid Propane with HHV of 91,500 BTU/gal (Standard) / LHV of 6.5 kWh/liter (Metric), 0.51 S.G.,and a stoichiometric ratio of 850:1 at 20% excess air, or 2) No. 6 Fuel Oil with HHV of 150,000 BTU/USgal (Standard) / LHV of 11.2 kWh/liter (Metric), 1.02 S.G., and a stoichiometric ratio of 1465:1 at 20% excess air; all cases with burner firing into chamber under no pressure.

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

3. Fuel inlet pressures 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; for detection limits refer to the Burner Operating and Ignition Window.

6. Ignition via IPG5413 gas pilot; for ignition limits refer to the Burner Operating and Ignition Window.

7. 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.



Burner Capacity Information, BBC 1124/2124

NATURAL GAS, AMBIENT COMBUSTION AIR OPERATION, LOW PRESSURE ATOMIZATION

SPECIFICATIONS	OPERATIONAL INFORMATION					
Capacity (at 10% Excess Air)	(BTU/hr)	14,040,000	63,260,000	88,840,000	107,660,000	124,550,000
Capacity (at 10% Excess All)	(kW)	3,710	16,730	23,500	28,480	32,940
Secondary Air Capacity	(scfh)	130,000	640,000	905,000	1,100,000	1,275,000
Occollidary All Odpacity	(nm ³ /hr)	3,482	17,144	24,243	29,467	34,155
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7
Secondary All Inlet Pressure	(mbar)	0.7	17.2	34.5	51.7	68.9
Primary Air Capacity	(scfh)	15,500	15,500	15,500	15,500	15,500
Phinary All Capacity	(nm ³ /hr)	415	415	415	415	415
Primary Air Inlet Pressure	(in.w.c.)	6.9	6.9	6.9	6.9	6.9
Fillinary All Inlet Flessure	(mbar)	17.2	17.2	17.2	17.2	17.2
Gas Inlet Pressure	(in.w.c.)	0.1	2.5	5.4	7.9	10.6
Gas milet Pressure	(mbar)	0.2	6.2	13.4	19.7	26.4
Flame Length (at 10% Excess Air)	(in)	72	264	300	312	324
Flame Length (at 10% Excess Air)	(mm)	1830	6710	7620	7920	8230
Flame Diameter (at 10% Excess Air	(in)	36	48	54	60	66
	(mm)	910	1220	1370	1520	1680
Maximum Operating Excess	(Air)	100%	400%	500%	600%	600%
	(Fuel)	30%	30%	30%	30%	30%

Burner Capacity Information, BBC 3124

NATURAL GAS, 900°F/482°C PREHEATED SECONDARY AIR OPERATION, LOW PRESSURE ATOMIZATION

SPECIFICATIONS	OPERATIONAL INFORMATION					
Capacity (at 10% Excess Air)	(BTU/hr)	9,260,000	39,730,000	55,570,000	67,220,000	77,670,000
	(kW)	2.450	10,510	14,700	17,780	20.540
Secondary Air Capacity	(scfh)	80,480	396,211	560,267	680,988	789,327
Secondary Air Inlet Pressure	(nm ³ /hr)	2,156	10,614	15,008	18,242	21,144
	(in.w.c.)	0.3	6.9	13.9	20.8	27.7
Primary Air Capacity	(mbar)	0.7	17.2	34.5	51.7	68.9
	(scfh)	15,500	15,500	15,500	15,500	15,500
Primary Air Inlet Pressure	(nm ³ /hr)	415	415	415	415	415
	(in.w.c.)	6.9	6.9	6.9	6.9	6.9
	(mbar)	<u>17.2</u>	17.2	<u>17.2</u>	17.2	17.2
	(in.w.c.)	0.1	1.9	4.1	6.0	8.0
Gas Inlet Pressure	(mbar)	0.2	4.7	10.2	14.9	20.0
	(in)	54	198	225	234	243
Flame Length (at 10% Excess Air)	(III) (mm)	1370	5030	5720	5940	6170
Flame Diameter (at 10% Excess Air	(in)	32	43	49	54	59
	(mm)	820	1100	1230	1370	1510
Maximum Operating Excess	(Air)	80%	320%	400%	480%	480%
	(Fuel)	30%	30%	30%	30%	30%

NOTES:

1. Capacities based on Natural Gas with HHV of 1034 BTU/ft³ (Standard) / LHV of 10.21 kWh/nm3 (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.

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

3. Fuel inlet pressures 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; for detection limits refer to the Burner Operating and Ignition Window.

6. Ignition via integral gas pilot; for ignition limits refer to the Burner Operating and Ignition Window.

7. 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.

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

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Burner Capacity Information, BBC 1124/2124

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

SPECIFICATIONS	OPERATIONAL INFORMATION					
	(BTU/hr)	13,920,000	56,420,000	78,500,000	94,750,000	109,330,000
Capacity (at 20% Excess Air)	(kW)	3,680	14,920	20,760	25,060	28,920
Secondary Air Capacity	(scfh)	130,000	640,000	905,000	1,100,000	1,275,000
Secondary All Capacity	(nm ³ /hr)	3,482	17,144	24,243	29,467	34,155
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7
Secondary All Inlet Pressure	(mbar)	0.7	17.2	34.5	51.7	68.9
Primary Air Capacity	(scfh)	37,000	37,000	37,000	37,000	37,000
Phinary All Capacity	(nm ³ /hr)	991	991	991	991	991
Primary Air Inlet Pressure	(in.w.c.)	34.6	34.6	34.6	34.6	34.6
Fillinary All Illiet Flessure	(mbar)	86.1	86.1	86.1	86.1	86.1
Fuel Oil Flow(at 20% Excess Air)	(gph)	101	409	569	687	792
FUELOII FIOW(at 20% Excess All)	(lph)	382	1,547	2,153	2,599	2,999
Flame Length (at 20% Excess Air)	(in)	108	168	216	240	252
Fiame Lengtin (at 20% Excess Air)	(mm)	2740	4270	5490	6100	6400
Flame Diameter (at 20% Excess Air	(in)	24	56	60	66	66
	(mm)	610	1420	1520	1680	1680
Maximum Operating Excess	(Air)	200%	1000%	1000%	1000%	1000%
	(Fuel)	30%	30%	30%	30%	30%

Burner Capacity Information, BBC 3124

NO. 2 FUEL OIL, 900°F/482°C PREHEATED SECONDARY AIR OPERATION, LOW PRESSURE ATOMIZATION

SPECIFICATIONS	OPERATIONAL INFORMATION					
Capacity (at 20% Excess Air)	(BTU/hr)	9,790,000	36,100,000	49,770,000	59,830,000	68,860,000
	(kW)	2,590	9,550	13,160	15,830	18,210
Secondary Air Capacity	(scfh)	80,480	396,211	560,267	680,988	789,327
	(nm ³ /hr)	2,156	10,614	15,008	18,242	21,144
Secondary 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
Primary Air Capacity	(scfh)	37,000	37,000	37,000	37,000	37,000
	(nm ³ /hr)	991	991	991	991	991
Primary Air Inlet Pressure	(in.w.c.)	34.6	34.6	34.6	34.6	34.6
	(mbar)	86.1	86.1	86.1	86.1	86.1
Fuel Oil Flow(at 20% Excess Air)	(gph)	71	262	361	434	499
	(lph)	269	990	1,365	1,641	1,889
Flame Length(at 20% Excess Air)	(in)	81	126	162	180	189
	(mm)	2060	3200	4110	4570	4800
Flame Diameter(at 20% Excess Air)	(in)	22	50	54	59	59
	(mm)	550	1280	1370	1510	1510
Maximum Operating Excess	(Air)	160%	800%	800%	800%	800%
	(Fuel)	30%	30%	30%	30%	30%

NOTES:

1. 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.

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

3. Fuel inlet pressures 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; for detection limits refer to the Burner Operating and Ignition Window.

6. Ignition via integral gas pilot; for ignition limits refer to the Burner Operating and Ignition Window.

Burner Capacity Information, BBC 1124/2124

LIQUID PROPANE, AMBIENT COMBUSTION AIR OPERATION, LIQUID PROPANE ATOMIZATION

SPECIFICATIONS	OPERATIONAL INFORMATION					
	(BTU/hr)	14,440,000	60,190,000	83,960,000	101,460,000	117,160,000
Capacity (at 20% Excess Air)	(kW)	3,820	15,920	22,210	26,840	30,990
Secondary Air Capacity	(scfh)	130,000	640,000	905,000	1,100,000	1,275,000
eccondary / III capacity	(nm ³ /hr)	3,482	17,144	24,243	29,467	34,155
Secondary Air Inlet Pressure	(in.w.c.)	0.3	6.9	13.9	20.8	27.7
Secondary All Inlet Plessure	(mbar)	0.7	17.2	34.5	51.7	68.9
Brimany Air Canadity	(scfh)	31,000	31,000	31,000	31,000	31,000
Primary Air Capacity	(nm^3/hr)	830	830	830	830	830
Primary Air Inlet Pressure	(in.w.c.)	24.2	24.2	24.2	24.2	24.2
Fillinary All Inlet Flessure	(mbar)	60.2	60.2	60.2	60.2	60.2
Liquid Propane Flow	(gph)	158	658	918	1,109	1,280
LIQUID FTOPATIE FIOW	(lph)	597	2,490	3,473	4,197	4,846
Liquid Propane Inlet Pressure	(psig)	1	23	45	65	87
Liquid Proparle Inier Pressure	(bar)	0.1	1.6	3.1	4.5	6.0
Flame Length (at 20% Excess Air)	(in)	72	228	252	276	300
Tiame Lengin (at 20% Excess All)	(mm)	1830	5790	6400	7010	7620
Flame Diameter(at 20% Excess Air)	(in)	24	48	54	60	66
	(mm)	610	1220	1370	1520	1680
Maximum Operating Excess	(Air)	100%	300%	400%	500%	500%
Maximum Operating Excess	(Fuel)	30%	30%	30%	30%	30%

NO. 6 FUEL OIL, AMBIENT COMBUSTION AIR OPERATION, HIGH PRESSURE ATOMIZATION

SPECIFICATIONS	OPERATIONAL INFORMATION					
Capacity (at 20% Excess Air)	(BTU/hr)	12,430,000	55,960,000	78,580,000	95,230,000	110,160,000
	(kW)	3,290	14,800	20,780	25,190	29,140
Secondary Air Capacity	(scfh)	130,000	640,000	905,000	1,100,000	1,275,000
	(nm ³ /hr)	3,482	17,144	24,243	29,467	34,155
Secondary 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
Primary Air Capacity	(scfh)	12,100	12,100	12,100	12,100	12,100
	(nm ³ /hr)	324	324	324	324	324
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
Atomizing Air Capacity	(scfh)	3,600	3,800	3,900	4,000	4,000
	(nm ³ /hr)	96	102	104	107	107
Atomizing Air Inlet Pressure	(psig)	16	42	46	50	55
	(bar)	1.1	2.9	3.2	3.4	3.8
Fuel Oil Flow	(gph))	83	373	524	635	734
	(lph)	314	1,412	1,983	2,403	2,778
Fuel Oil Inlet Pressure	(psig)	25	46	52	56	62
	(bar)	1.7	3.2	3.6	3.9	4.3
Flame Length(at 20% Excess Air)	(in)	96	180	192	204	216
	(mm)	2440	4570	4880	5180	5490
Flame Diameter(at 20% Excess Air)	(in)	24	36	42	48	48
	(mm)	610	910	1070	1220	1220
Maximum Operating Excess	(Air)	500%	600%	700%	700%	700%
	(Fuel)	30%	30%	30%	30%	30%

NOTES:

1. Capacities based on 1) Liquid Propane with HHV of 91,500 BTU/gal (Standard) / LHV of 6.5 kWh/liter (Metric), 0.51 S.G.,and a stoichiometric ratio of 850:1 at 20% excess air, or 2) No. 6 Fuel Oil with HHV of 150,000 BTU/USgal (Standard) / LHV of 11.2 kWh/liter (Metric), 1.02 S.G., and a stoichiometric ratio of 1465:1 at 20% excess air; all cases with burner firing into chamber under no pressure.

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

3. Fuel inlet pressures 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.

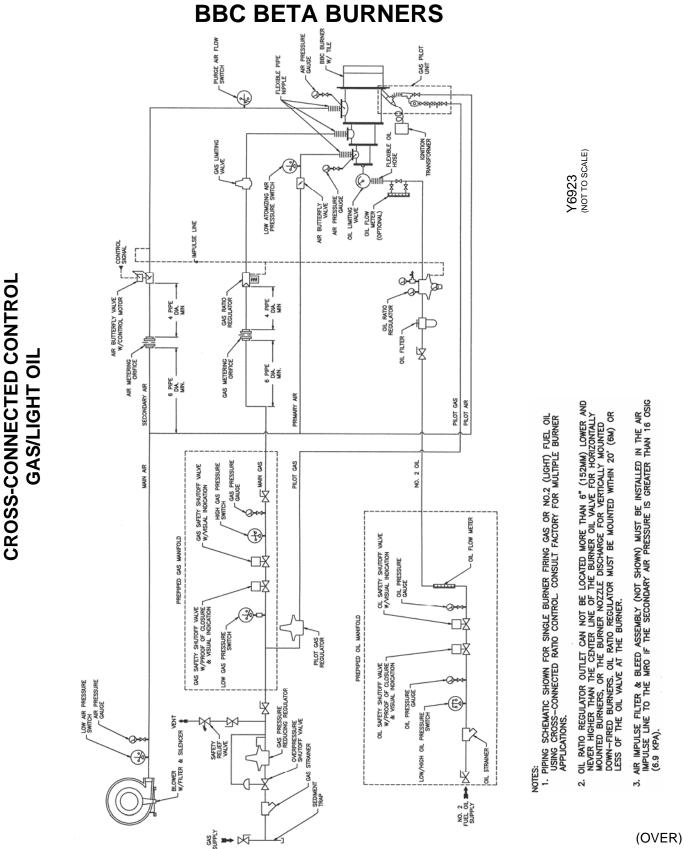
5. Flame detection via UV scanner; for detection limits refer to the Burner Operating and Ignition Window.

6. Ignition via integral gas pilot; for ignition limits refer to the Burner Operating and Ignition Window.

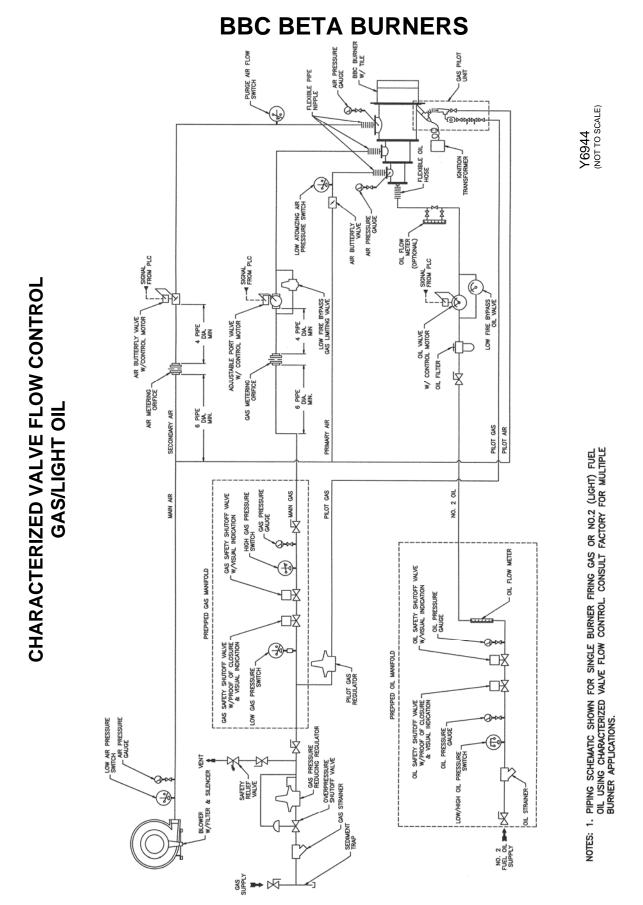
7. Burner is suitable for use on gaseous and liquid fuels other than those listed, and with combustion air other than ambient temperature or that listed; for further information consult Hauck.



SUPPLEMENTAL DATA



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 **8/14** www.hauckburner.com Fax: 717-273-9882

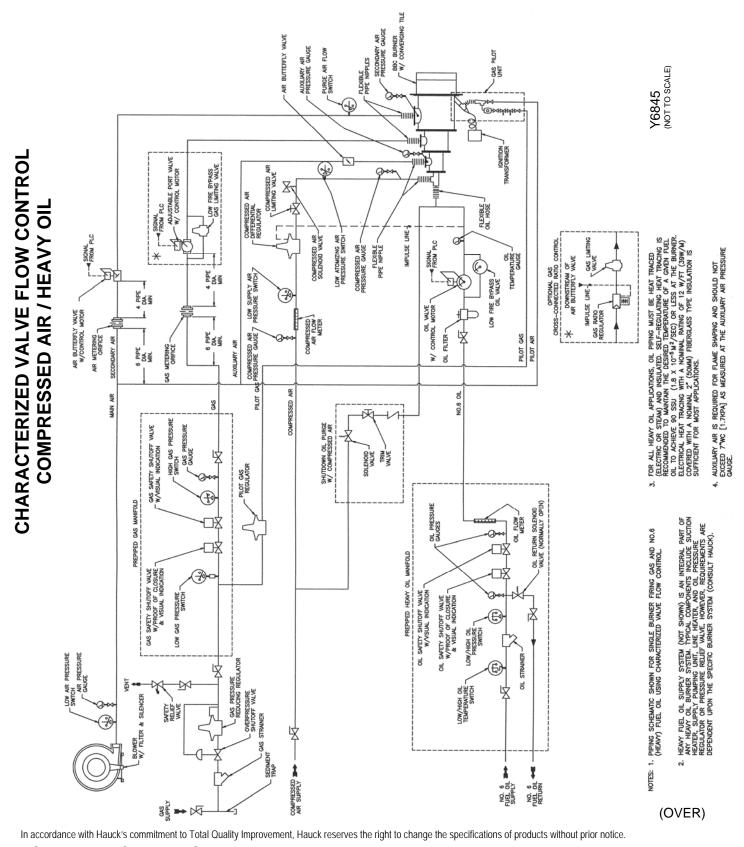


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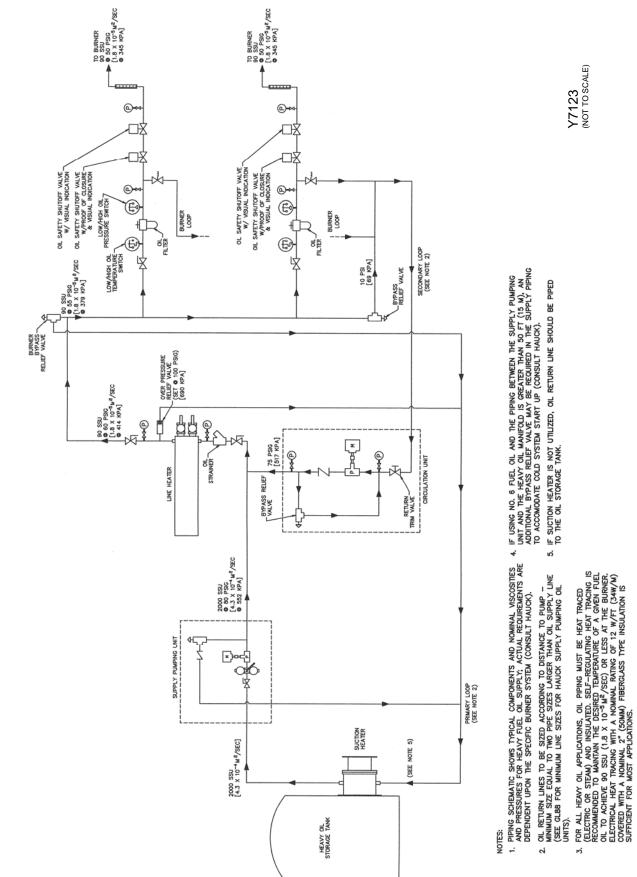
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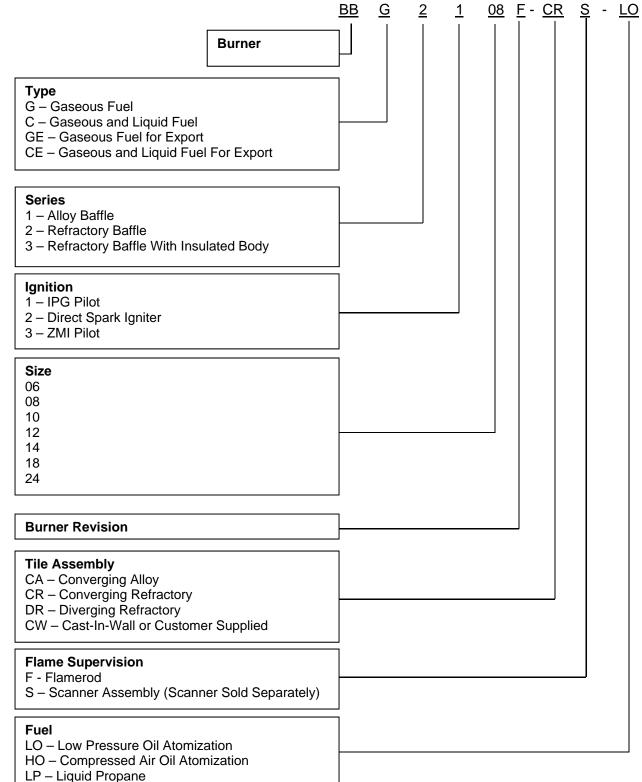
MULTIPLE BURNER SYSTEM HEAVY OIL SUPPLY



SUPPLEMENTAL DATA

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