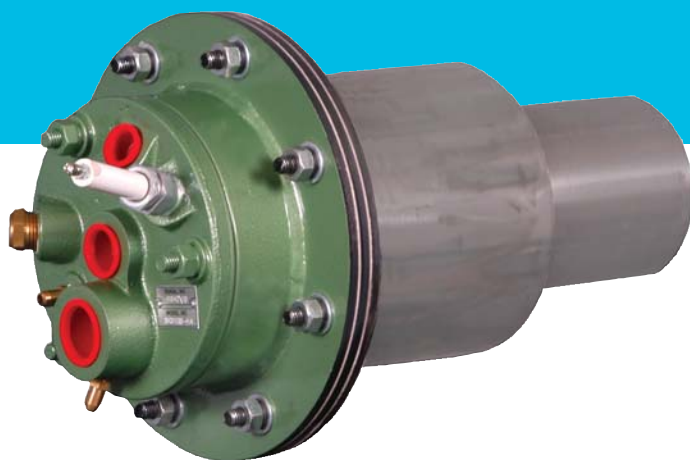




JAG

Jet Air Gas Burner

JAG-1
Edition 04-08



Hauck, a product brand
of the Elster Group



- High on-ratio turndown
- Stable over wide excess air range
- Operates via on/off pulse, high/low pulse, or ratio control
- Direct spark ignition
- UV or flame rod flame supervision
- Stainless steel recirculation and firing tubes
- Recirculates furnace atmosphere
- High efficiency
- Low NOx and CO emissions



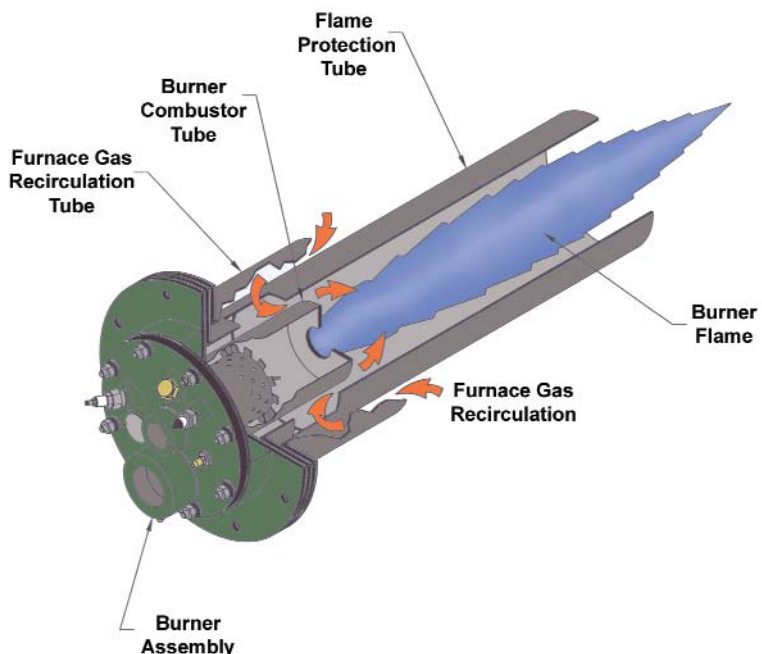
The Hauck JAG Jet Air Gas Burner is specifically designed for homogenizing and solution heat treating applications. At the heart of the JAG design is the proven reliability of the SVG burner family which provides excellent stability and performance.

The burner's unique firing and recirculation tube provide maximum heat transfer efficiency while minimizing NO_x and CO emissions in low temperature applications. The integral alloy firing tube provides the flame with complete protection from quenching from recirculation air cross velocities typically present in homogenizing and heat treat applications which can result in high CO emissions. In combination with the high exit velocity of the JAG burner, the furnace gas recirculation and flame protection features of the firing tube provide low NO_x and CO emissions.

The JAG is direct spark ignited and can be flame supervised with a flame rod or UV scanner. The burner's combustor, flame protection and recirculation tubes are constructed from temperature resistant stainless steel alloys.

The burner can be controlled by a simple cross connected ratio control system or through a pulse fired system for additional operational benefits.

The single bolt pattern and modular design of the burner allow for easy installation and maintenance.



JAG Jet Air Gas Burner assembly showing recirculation and firing tubes.

For additional information on this product, visit our website at:

www.hauckburner.com

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JAG JET AIR GAS BURNER

			BURNER STATIC INLET AIR PRESSURE						
SPECIFICATIONS		100 Series	0.17 OSIG	1 OSIG	4 OSIG	8 OSIG	12 OSIG	16 OSIG	20 OSIG
		200 Series	0.09 OSIG	0.5 OSIG	2 OSIG	4 OSIG	6 OSIG	8 OSIG	10 OSIG
JAG 120/220	Input @ 10% Excess Air	(10 ³ Btu/hr)	90	200	390	550	680	785	880
	Excess Air	(%)	1,000	2,000	3,500	5,000	5,000	5,000	4,500
	Flame Length	(in)	In Tube	In Tube	2	6	6	8	8
JAG 125/225	Input @ 10% Excess Air	(10 ³ Btu/hr)	100	300	535	725	875	1,000	1,120
	Excess Air	(%)	1,500	2,500	5,000	7,000	7,000	7,000	7,000
	Flame Length	(in)	In Tube	In Tube	6	6	6	12	16
JAG 130/230	Input @ 10% Excess Air	(10 ³ Btu/hr)	125	290	600	850	1,060	1,250	1,310
	Excess Air	(%)	4,500	5,000	5,000	7,000	7,000	7,500	7,500
	Flame Length	(in)	In Tube	In Tube	6	10	12	12	16
JAG 140/240	Input @ 10% Excess Air	(10 ³ Btu/hr)	230	560	1,050	1,440	1,810	2,075	2,300
	Excess Air	(%)	2,500	3,500	5,000	7,500	7,500	7,500	7,500
	Flame Length	(in)	6	12	12	16	18	18	24
JAG 160/260	Input @ 10% Excess Air	(10 ³ Btu/hr)	555	1,060	2,360	3,170	3,620	4,150	4,580
	Excess Air	(%)	2,500	2,500	3,500	3,500	4,000	4,000	4,000
	Flame Length	(in)	In Tube	In Tube	6	8	12	16	24

NOTES:

- Capacities based on natural gas with HHV of 1034 Btu/ft³, 0.59 S.G., and a stoichiometric air/gas ratio of 9.74:1 with burner firing into chamber under no pressure at 10% excess air.
- Air and gas flows based on 60°F @ sea level.
- Static air pressures measured at the burner inlet pressure tap.
- Flame lengths measured from end of flame protection tube.
- All data based on industry standard air and gas piping practices.
- Flame detection available via UV scanner or flame rod.

(See Reverse Side for Metric Capacities)

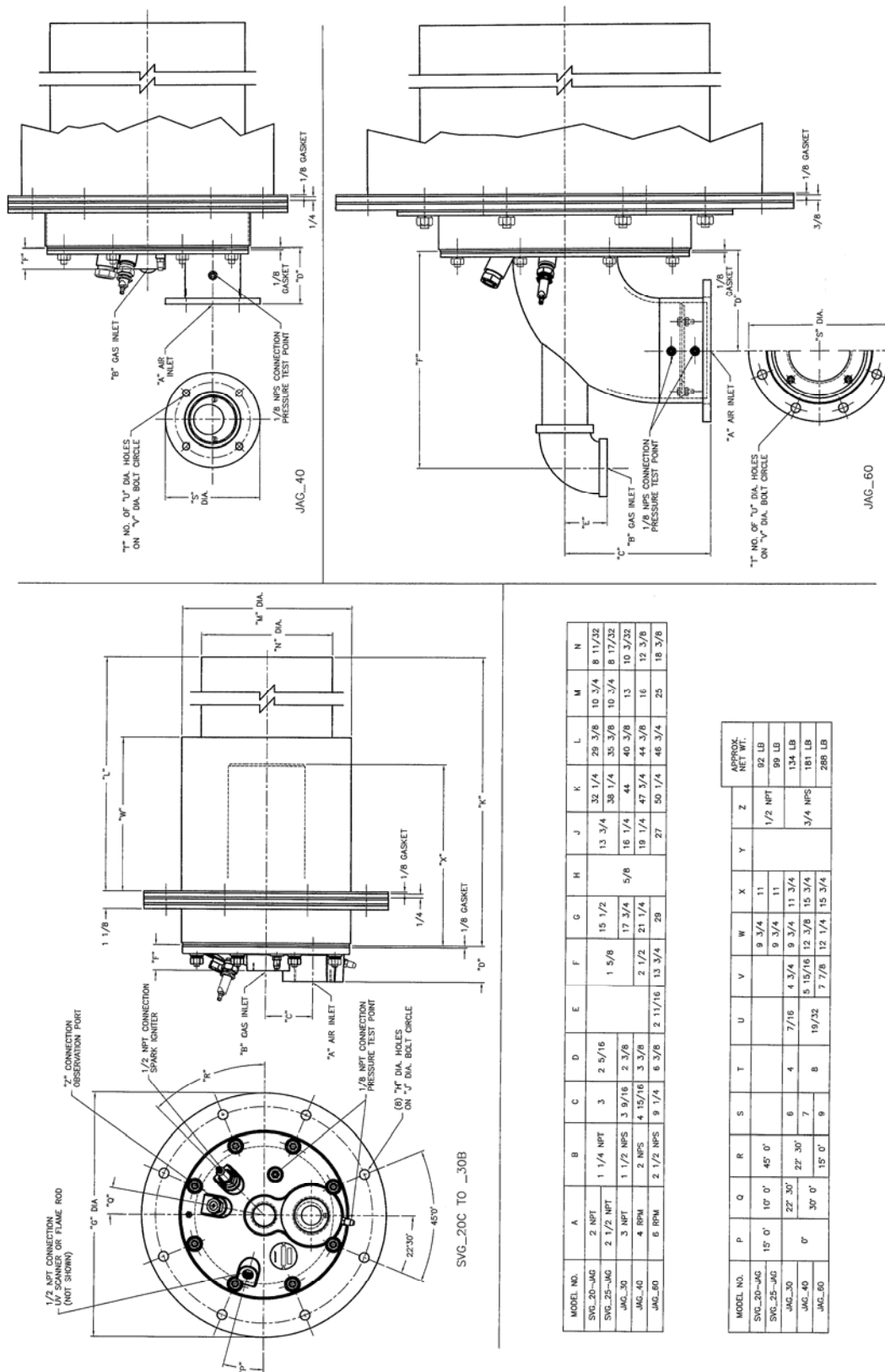
In accordance with Hauck's commitment to Total Quality Improvement, Hauck reserves the right to change the specifications of products without prior notice.



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DIMENSIONS

JAG JET AIR GAS BURNER



Y7921
(NOT TO SCALE)

(See Reverse Side For Metric Dimensions)

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HAUCK MANUFACTURING CO., P.O. Box 90 Lebanon, PA 17042-0090 717-272-3051

2/09

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JAG-3



SUPPLEMENTAL DATA

JAG JET AIR GAS BURNER

BURNER MODEL JAG 120/220

NATURAL GAS OPERATION

			BURNER STATIC INLET AIR PRESSURE						
SPECIFICATIONS		120 Model	0.17 OSIG	1 OSIG	4 OSIG	8 OSIG	12 OSIG	16 OSIG	20 OSIG
		220 Model	0.09 OSIG	0.5 OSIG	2 OSIG	4 OSIG	6 OSIG	8 OSIG	10 OSIG
Input @ 10% Excess Air		(10 ³ Btu/hr)	90	200	390	550	680	785	880
Air Flow		(scfh)	930	2,070	4,050	5,700	7,050	8,130	9,120
Air Orifice ΔP	120 Series	("wc)	0.3	1.4	5.7	11.4	17.8	23.7	29.5
	220 Series	("wc)	0.2	0.4	1.7	3.1	4.8	6.6	8.2
Gas Inlet Pressure		("wc)	0.1	0.2	1.0	1.9	2.3	2.7	3.7
Max. Excess Air		(%)	1,000	2,000	3,500	5,000	5,000	5,000	4,500
Max. Excess Fuel		(%)	+30	+30	+30	+30	+30	+30	+30
Flame Length		(in)	In Tube	In Tube	2	6	6	8	8
Flame Diameter		(in)	In Tube	In Tube	3	5	5	6	7
Max. Ignition Gas		(scfh)	100	225	425	625	775	900	1,000
Min. Ignition Gas		(scfh)	8	10	15	20	30	35	40

NOTES:

1. Capacities based on natural gas with HHV of 1034 Btu/ft³, 0.59 S.G., and a stoichiometric air/gas ratio of 9.74:1 with burner firing into chamber under no pressure at 10% excess air.
2. Air and fuel flows based on 60°F @ sea level.
3. Flame lengths measured from end of flame protection tube.
4. All data based on industry standard air and gas piping practices.

(See Reverse Side for Metric Data)

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SUPPLEMENTAL DATA

JAG JET AIR GAS BURNER

BURNER MODEL JAG 125/225

NATURAL GAS OPERATION

			BURNER STATIC INLET AIR PRESSURE						
SPECIFICATIONS		125 Model	0.17 OSIG	1 OSIG	4 OSIG	8 OSIG	12 OSIG	16 OSIG	20 OSIG
		225 Model	0.09 OSIG	0.5 OSIG	2 OSIG	4 OSIG	6 OSIG	8 OSIG	10 OSIG
Input @ 10% Excess Air		(10 ³ Btu/hr)	100	300	535	725	875	1,000	1,120
Air Flow		(scfh)	1,040	3,110	5,540	7,510	9,070	10,370	11,600
Air Orifice ΔP	125 Series	("wc)	0.2	0.9	3.6	7.3	10.8	14.5	17.4
	225 Series	("wc)	0.1	0.3	0.6	1.2	1.9	2.5	3.0
Gas Inlet Pressure		("wc)	0.1	0.6	2.7	5.5	8.6	11.4	13.7
Max. Excess Air		(%)	1,500	2,500	5,000	7,000	7,000	7,000	7,000
Max. Excess Fuel		(%)	+30	+30	+30	+30	+30	+30	+30
Flame Length		(in)	In Tube	In Tube	6	6	6	12	16
Flame Diameter		(in)	In Tube	In Tube	4	6	6	8	8
Max. Ignition Gas		(scfh)	125	275	650	900	1,000	1,200	1,250
Min. Ignition Gas		(scfh)	8	10	15	20	30	35	40

NOTES:

1. Capacities based on natural gas with HHV of 1034 Btu/ft³, 0.59 S.G., and a stoichiometric ratio air/gas of 9.74:1 with burner firing into chamber under no pressure at 10% excess air.
2. Air and fuel flows based on 60°F @ sea level.
3. Flame lengths measured from end of flame protection tube.
4. All data based on industry standard air and gas piping practices.

(See Reverse Side for Metric Data)

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SUPPLEMENTAL DATA

JAG JET AIR GAS BURNER

BURNER MODEL JAG 130/230

NATURAL GAS OPERATION

			BURNER STATIC INLET AIR PRESSURE						
SPECIFICATIONS		130 Model	0.17 OSIG	1 OSIG	4 OSIG	8 OSIG	12 OSIG	16 OSIG	20 OSIG
		230 Model	0.09 OSIG	0.5 OSIG	2 OSIG	4 OSIG	6 OSIG	8 OSIG	10 OSIG
Input @ 10% Excess Air		(10 ³ Btu/hr)	125	290	600	850	1,060	1,250	1,310
Air Flow		(scfh)	1,300	3,000	6,220	8,810	11,000	13,000	13,600
Air Orifice ΔP	130 Series	("wc)	0.2	1.0	3.8	7.4	11.5	15.5	18.9
	230 Series	("wc)	0.1	0.3	1.0	1.6	2.4	3.3	4.0
Gas Inlet Pressure		("wc)	0.1	0.7	2.2	5.6	8.0	10.6	12.2
Max. Excess Air		(%)	4,500	5,000	5,000	7,000	7,000	7,500	7,500
Max. Excess Fuel		(%)	+30	+30	+30	+30	+30	+30	+30
Flame Length		(in)	In Tube	In Tube	6	10	12	12	16
Flame Diameter		(in)	In Tube	In Tube	6	8	8	10	10
Max. Ignition Gas		(scfh)	130	300	700	900	1,000	1,200	1,250
Min. Ignition Gas		(scfh)	10	15	20	25	30	35	40

NOTES:

1. Capacities based on natural gas with HHV of 1034 Btu/ft³, 0.59 S.G., and a stoichiometric air/gas ratio of 9.74:1 with burner firing into chamber under no pressure at 10% excess air.
2. Air and fuel flows based on 60°F @ sea level.
3. Flame lengths measured from end of flame protection tube.
4. All data based on industry standard air and gas piping practices.

(See Reverse Side for Metric Data)

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SUPPLEMENTAL DATA

JAG JET AIR GAS BURNER

BURNER MODEL JAG 140/240

NATURAL GAS OPERATION

		BURNER STATIC INLET AIR PRESSURE							
SPECIFICATIONS		140 Series	0.17 OSIG	1 OSIG	4 OSIG	8 OSIG	12 OSIG	16 OSIG	20 OSIG
		240 Series	0.09 OSIG	0.5 OSIG	2 OSIG	4 OSIG	6 OSIG	8 OSIG	10 OSIG
Input @ 10% Excess Air (10 ³ Btu/hr)		230	560	1,050	1,440	1,810	2,080	2,300	
Air Flow (scfh)		2,390	5,800	10,900	14,900	18,800	21,500	23,800	
Air Orifice ΔP	140 Series ("wc)	0.3	1.1	4.3	8.5	12.8	17.2	20.3	
	240 Series ("wc)	0.2	0.7	1.6	2.7	3.8	4.9	5.4	
Gas Inlet Pressure ("wc)		0.2	0.6	2.2	4.5	6.7	8.8	10.7	
Max. Excess Air (%)		2,500	3,500	5,000	7,500	7,500	7,500	7,500	
Max. Excess Fuel (%)		+30	+30	+30	+30	+30	+30	+30	
Flame Length (in)		6	12	12	16	18	18	24	
Flame Diameter (in)		6	6	6	8	10	12	12	
Max. Ignition Gas (scfh)		300	700	1,900	2,000	2,250	2,500	2,750	
Min. Ignition Gas (scfh)		25	35	50	75	100	125	150	

NOTES:

- Capacities based on natural gas with HHV of 1034 Btu/ft³, 0.59 S.G., and a stoichiometric air/gas ratio of 9.74:1 with burner firing into chamber under no pressure at 10% excess air.
- Air and fuel flows based on 60°F @ sea level.
- Flame lengths measured from end of flame protection tube.
- All data based on industry standard air and gas piping practices.

(See Reverse Side for Metric Data)

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JAG JET AIR GAS BURNER

BURNER MODEL JAG 160/260

NATURAL GAS OPERATION

			BURNER STATIC INLET AIR PRESSURE						
SPECIFICATIONS		160 Series	0.17 OSIG	1 OSIG	4 OSIG	8 OSIG	12 OSIG	16 OSIG	20 OSIG
		260 Series	0.09 OSIG	0.5 OSIG	2 OSIG	4 OSIG	6 OSIG	8 OSIG	10 OSIG
Input @ 10% Excess Air		(10 ³ Btu/hr)	555	1,060	2,360	3,170	3,620	4,150	4,580
Air Flow		(scfh)	5,750	11,000	24,500	32,800	37,500	43,000	47,500
Air Orifice ΔP	160 Series	("wc)	0.2	1.0	3.7	5.5	9.6	13.1	15.6
	260 Series	("wc)	0.1	0.2	0.3	0.7	1.2	2.1	2.7
Gas Inlet Pressure		("wc)	0.1	0.6	2.7	5.0	7.7	9.1	11.0
Max. Excess Air		(%)	2,500	2,500	3,500	3,500	4,000	4,000	4,000
Max. Excess Fuel		(%)	+30	+30	+30	+30	+30	+30	+30
Flame Length		(in)	In Tube	In Tube	6	8	12	16	24
Flame Diameter		(in)	In Tube	In Tube	6	6	12	16	16
Max. Ignition Gas		(scfh)	625	1,250	2,750	3,750	4,500	5,000	5,500
Min. Ignition Gas		(scfh)	50	75	100	150	250	350	450

NOTES:

1. Capacities based on natural gas with HHV of 1034 Btu/ft³, 0.59 S.G., and a stoichiometric air/gas ratio of 9.74:1 with burner firing into chamber under no pressure at 10% excess air.
2. Air and fuel flows based on 60°F @ sea level.
3. Flame lengths measured from end of flame protection tube.
4. All data based on industry standard air and gas piping practices.

(See Reverse Side for Metric Data)

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