



## CAPACITIES

### WHG WALL HUGGER GAS BURNER

SPECIFICATIONS		MODEL NUMBER					
		112	115	120	125	130	140
H I G H  F I R E	Max. Input @ 10% Excess Air (Btu/hr)	175,000	430,000	660,000	950,000	1,350,000	2,300,000
	Max. Air Flow @ 16 osig (scfh)	1,840	4,480	6,820	9,870	13,930	23,960
	Min. Input @ Max. Air Flow (Btu/hr)	45,420	108,100	144,800	275,800	359,900	620,400
	Max. Excess Air (%)	330	340	400	280	310	175
	Flame Length @ Max. Input (in.)	2	3	3	4	5	6
L O W  F I R E	Max. Input @ 10% Excess Air (Btu/hr)	45,000	110,000	175,000	235,000	340,000	575,000
	Air Flow @ 1 osig (scfh)	455	1,120	1,840	2,410	3,530	5,980
	Min. Input @ Air Flow (Btu/hr)	12,720	26,680	32,050	75,270	76,510	176,300
	Max. Excess Air (%)	280	345	510	240	390	240

NOTES:

1. Capacities based on natural gas with HHV of 1034 Btu/ft<sup>3</sup>, 0.59 S.G., and a stoichiometric air/gas ratio of 9.74:1 with burner firing into chamber under no pressure.
2. Air and gas flows based on 60°F @ sea level.
3. Static air pressures measured at the burner air inlet pressure tap.
4. Flame lengths measured from the end of the refractory tile.
5. All data based on industry standard air and gas piping practices.
6. Flame detection available via flame rod or UV scanner.
7. Burners can be operated up to a static inlet air pressure of 20 osig; consult Hauck.

(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.

# METRIC CAPACITIES

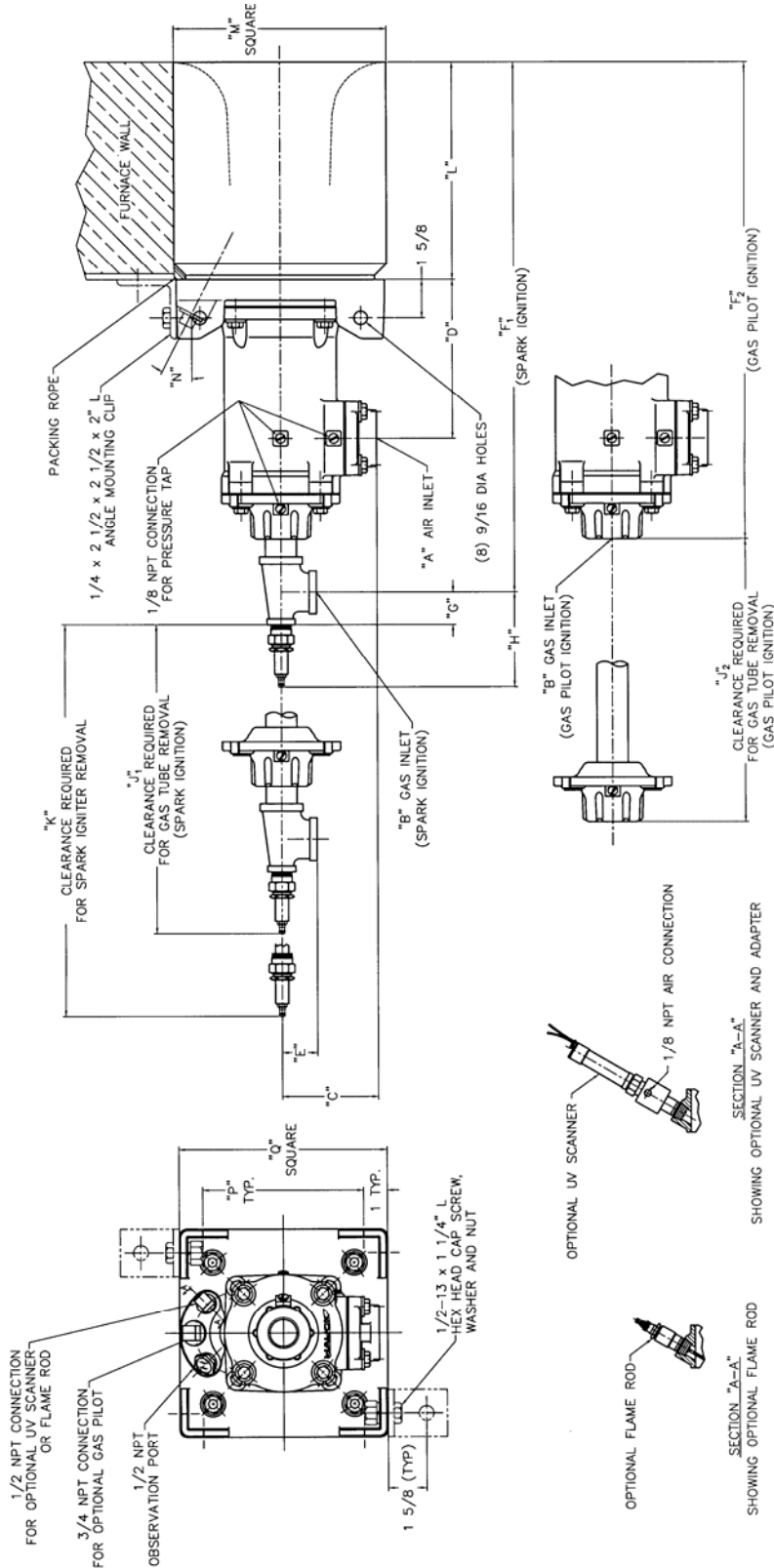
## WHG WALL HUGGER GAS BURNER

SPECIFICATIONS		MODEL NUMBER					
		112	115	120	125	130	140
HIGH FIRE	Max. Input @ 10% Excess Air (kW)	47	115	175	250	355	610
	Max. Air Flow @ 6,900 Pa (nm <sup>3</sup> /hr)	49	120	183	264	373	641
	Min. Input @ Max. Air Flow (kW)	12.0	28.6	38.4	72.8	95.6	164
	Max. Excess Air (%)	330	340	400	280	310	175
	Flame Length @ Max. Input (mm)	50	75	75	100	125	150
LOW FIRE	Max. Input @ 10% Excess Air (kW)	12	30	45	62	90	150
	Air Flow @ 430 Pa (nm <sup>3</sup> /hr)	12	30	49	65	94	160
	Min. Input @ Air Flow (kW)	3.4	7.1	8.5	19.9	20.2	46.6
	Max. Excess Air (%)	280	345	510	240	390	240

**NOTES:**

1. Capacities based on natural gas with LHV of 36.74 MJ/nm<sup>3</sup>, 0.59 S.G., and a stoichiometric air/gas ratio of 9.74:1 with burner firing into chamber under no pressure.
2. Air and gas flows based on 0°C @ sea level.
3. Static air pressures measured at the burner air inlet pressure tap.
4. Flame lengths measured from the end of the refractory tile.
5. All data based on industry standard air and gas piping practices.
6. Flame detection available via flame rod or UV scanner.
7. Burners can be operated up to 8,620 Pa static air inlet pressure; consult Hauck.

## WHG WALL HUGGER GAS BURNER



MODEL NO.	AIR INLET "A" NPT	GAS INLET "B" NPT	C	D	E	F <sub>1</sub>	F <sub>2</sub>	G	H	J <sub>1</sub>	J <sub>2</sub>	K	L	M	N	P	Q
WHG 112B	1 1/4 NPT	1 NPT	4 1/8	6 3/4	1 1/2	22 5/8	20 1/4	1 3/16	4 1/4	13 1/4	9 15/16	18 3/4	9 1/4	9	27	6 13/16	8 13/16
WHG 115B	1 1/2 NPT	1 NPT	4 1/8	6 3/4	1 1/2	22 5/8	20 1/4	1 3/16	4 1/4	13 1/4	9 15/16	18 3/4	9 1/4	9	27	6 13/16	8 13/16
WHG 120B	2 NPT	1 1/4 NPT	4 1/2	6 3/4	1 3/4	23	20 1/2	1 9/16	3 15/16	12 3/4	10 13/16	18 3/4	9 1/4	13 1/2	30	11	13
WHG 125B	2 1/2 NPT	1 1/2 NPT	4 5/8	6 3/4	1 15/16	23 3/16	20 1/2	1 11/16	3 3/4	12 7/16	10 13/16	18 3/4	9 1/4	13 1/2	30	11	13
WHG 130C	3 NPT	2 NPT	6	9 1/4	2 1/4	27 1/8	23 15/16	1 7/8	4 7/8	16 7/8	13 5/8	23 7/8	9 1/4	13 1/2	30	11	13
WHG 140C	4 NPT	2 1/2 NPT	6 1/8	9 1/4	2 11/16	27 3/4	23 15/16	2 3/16	4 5/16	16	13 5/8	23 7/8	9 1/4	13 1/2	30	11	13

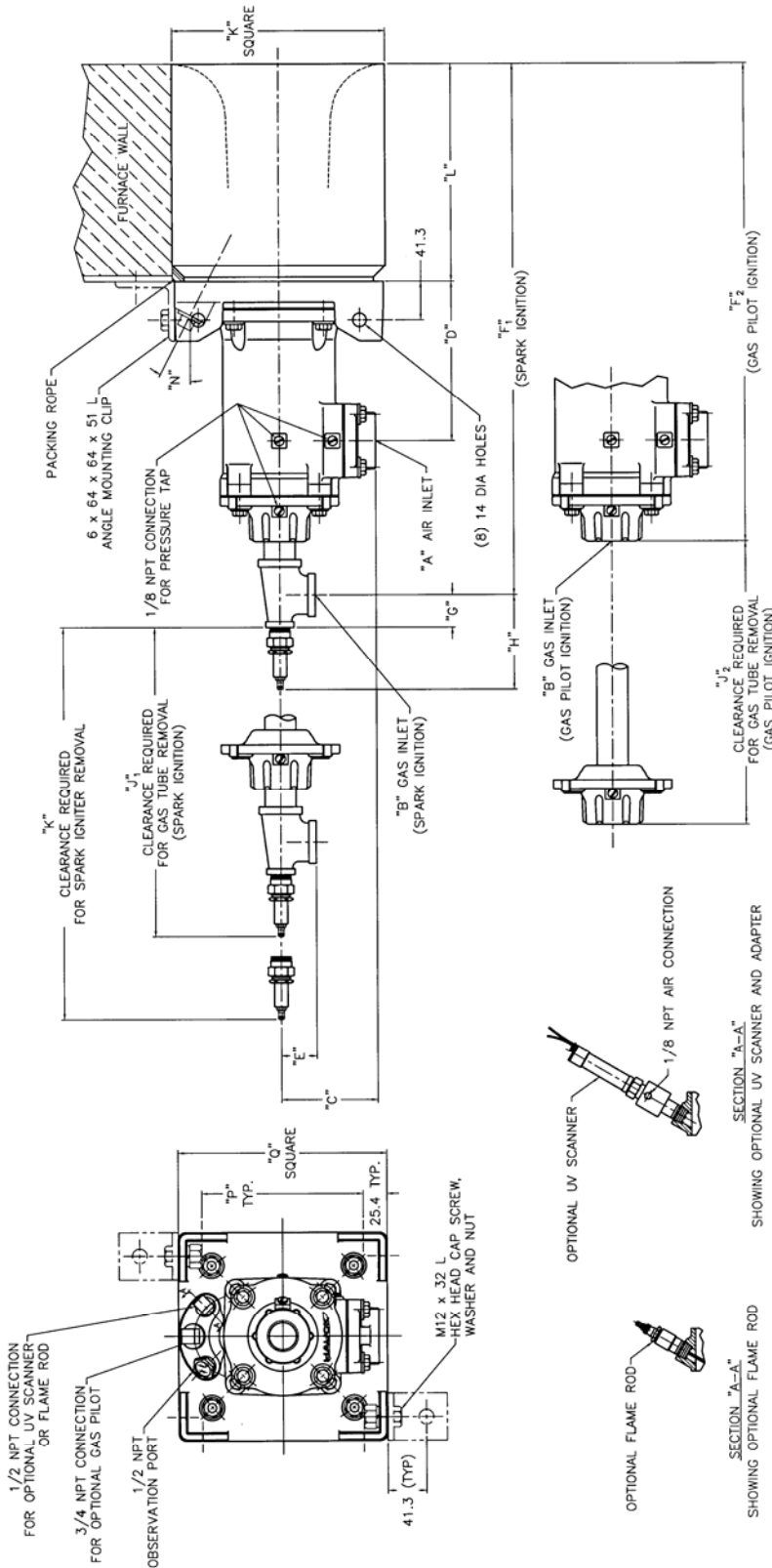
Y1494  
(NOT TO SCALE)

(See Reverse Side for Metric Dimensions)

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

# METRIC DIMENSIONS

## WHG WALL HUGGER GAS BURNER



MODEL NO.	AIR INLET "A" NPT	GAS INLET "B" NPT	C	D	E	F <sub>1</sub>	F <sub>2</sub>	G	H	J <sub>1</sub>	J <sub>2</sub>	K	L	M	N	P	Q
WHG 112B	1 1/4 NPT	1 NPT	105	171	38	575	514	30	108	337	252	476	235	229	27	173	224
WHG 115B	1 1/2 NPT	1 NPT	105	171	38	575	514	30	108	337	252	476	235	229	27	173	224
WHG 120B	2 NPT	1 1/4 NPT	114	171	44	584	521	40	100	324	275	476	235	229	30'	279	330
WHG 125B	2 1/2 NPT	1 1/2 NPT	117	171	49	589	521	43	95	316	275	476	235	229	30'	279	330
WHG 130C	3 NPT	2 NPT	152	235	57	689	608	48	124	429	346	606	235	229	30'	279	330
WHG 140C	4 NPT	2 1/2 NPT	156	235	68	705	608	56	110	406	346	606	235	229	30'	279	330

Y1494 METRIC  
(NOT TO SCALE)

NOTES:  
1. DIMENSIONS ARE IN MM

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**WHG WALL HUGGER GAS BURNER**

**BURNER MODEL WHG 112B**

		STATIC AIR PRESSURE (OSIG) AT BURNER INLET TAP					
		1 OSIG	4 OSIG	8 OSIG	12 OSIG	16 OSIG	20 OSIG
<b>Burner Input @ 10% Excess Air</b>	<b>(Btu/hr)</b>	<b>45,000</b>	<b>90,000</b>	<b>125,000</b>	<b>150,000</b>	<b>175,000</b>	<b>200,000</b>
Max. Air Flow (Not Firing)	(scfh)					<b>1,875</b>	
Max. Air Flow	(scfh)	455	920	1,300	1,590	1,840	2,060
Burner Air Orifice ΔP	("wc)	---	---	---	---	---	---
Gas Inlet Pressure	("wc)	0.8	1.5	2.1	2.3	3.1	4.0
Max. Excess Air – UV Scanner	(%)	280	330	340	340	330	330
Flame Length	(in.)	1	2	2	2	2	2
Flame Diameter	(in.)	4	8	10	11	12	15
Min. Ignition Gas Flow	(scfh)	12	21	29	36	42	47

**NOTES:**

1. Capacities based on natural gas with HHV of 1034 Btu/ft<sup>3</sup>, 0.59 S.G. and a stoichiometric air/gas ratio of 9.74:1 with burner firing into chamber under no pressure.
2. Air and gas flows based on 60°F @ sea level; capacities for preheated air will differ from those shown.
3. Flame lengths measured from the end of the refractory tile.
4. All data based on industry standard air and gas piping practices.
5. Excess fuel firing not recommended.
6. Flame scanning via flame rod available. For flame rod firing limits, consult Hauck.

(See Reverse Side for Metric Data)

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# METRIC DATA

## WHG WALL HUGGER GAS BURNER

### BURNER MODEL WHG 112B

	STATIC AIR PRESSURE (Pa) AT BURNER INLET TAP					
	430 Pa	1725 Pa	3450 Pa	5170 Pa	6900 Pa	8620 Pa
<b>Burner Input @ 10% Excess Air (kW)</b>	<b>12</b>	<b>24</b>	<b>33</b>	<b>40</b>	<b>47</b>	<b>53</b>
Max. Air Flow (Not Firing) (nm <sup>3</sup> /hr)					50	
Max. Air Flow (nm <sup>3</sup> /hr)	12	25	35	43	49	55
Burner Air Orifice ΔP (Pa)	---	---	---	---	---	---
Gas Inlet Pressure (Pa)	200	375	525	575	775	1000
Max. Excess Air – UV Scanner (%)	280	330	340	340	330	330
Flame Length (mm)	25	50	50	50	50	50
Flame Diameter (mm)	100	200	250	280	305	380
Min. Ignition Gas Flow (nm <sup>3</sup> /hr)	0.3	0.6	0.8	1.0	1.1	1.3

#### NOTES:

1. Capacities based on natural gas with LHV of 36.74 MJ/nm<sup>3</sup>, 0.59 S.G. and a stoichiometric air/gas ratio of 9.74:1 with burner firing into chamber under no pressure.
2. Air and gas flows based on 0°C @ sea level; capacities for preheated air will differ from those shown.
3. Flame lengths measured from the end of the refractory tile.
4. All data based on industry standard air and gas piping practices.
5. Excess fuel firing not recommended.
6. Flame scanning via flame rod available. For flame rod firing limits, consult Hauck.



**WHG WALL HUGGER GAS BURNER**

**BURNER MODEL WHG 115B**

		STATIC AIR PRESSURE (OSIG) AT BURNER INLET TAP					
		1 OSIG	4 OSIG	8 OSIG	12 OSIG	16 OSIG	20 OSIG
<b>Burner Input @ 10% Excess Air</b>	<b>(Btu/hr)</b>	<b>110,000</b>	<b>215,000</b>	<b>300,000</b>	<b>375,000</b>	<b>430,000</b>	<b>485,000</b>
Max. Air Flow (Not Firing)	(scfh)					<b>4,500</b>	
Max. Air Flow	(scfh)	1,120	2,220	3,170	3,880	4,480	5,020
Burner Air Orifice ΔP	("wc)	1.1	4.5	9.2	13.6	17.9	22.8
Gas Inlet Pressure	("wc)	0.4	0.8	1.9	6.4	8.3	10.5
Max. Excess Air – UV Scanner	(%)	340	390	380	380	340	350
Flame Length	(in.)	3	3	3	3	3	3
Flame Diameter	(in.)	8	12	14	16	18	22
Min. Ignition Gas Flow	(scfh)	25	45	65	80	100	110

**NOTES:**

1. Capacities based on natural gas with HHV of 1034 Btu/ft<sup>3</sup>, 0.59 S.G. and a stoichiometric air/gas ratio of 9.74:1 with burner firing into chamber under no pressure.
2. Air and gas flows based on 60°F @ sea level; capacities for preheated air will differ from those shown.
3. Flame lengths measured from the end of the refractory tile.
4. All data based on industry standard air and gas piping practices.
5. Excess fuel firing not recommended.
6. Flame scanning via flame rod available. For flame rod firing limits, consult Hauck.

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# METRIC DATA

## WHG WALL HUGGER GAS BURNER

### BURNER MODEL WHG 115B

	STATIC AIR PRESSURE (Pa) AT BURNER INLET TAP					
	430 Pa	1725 Pa	3450 Pa	5170 Pa	6900 Pa	8620 Pa
<b>Burner Input @ 10% Excess Air (kW)</b>	<b>30</b>	<b>60</b>	<b>80</b>	<b>100</b>	<b>115</b>	<b>130</b>
Max. Air Flow (Not Firing) (nm <sup>3</sup> /hr)					120	
Max. Air Flow (nm <sup>3</sup> /hr)	30	60	85	105	120	135
Burner Air Orifice ΔP (Pa)	275	1,120	2,290	3,380	4,450	5,670
Gas Inlet Pressure (Pa)	100	200	475	1,600	2,070	2,610
Max. Excess Air – UV Scanner (%)	340	390	380	380	340	310
Flame Length (mm)	75	75	75	75	75	75
Flame Diameter (mm)	200	300	350	400	460	560
Min. Ignition Gas Flow (nm <sup>3</sup> /hr)	0.7	1.2	1.7	2.1	2.7	2.9

#### NOTES:

1. Capacities based on natural gas with LHV of 36.74 MJ/nm<sup>3</sup>, 0.59 S.G. and a stoichiometric air/gas ratio of 9.74:1 with burner firing into chamber under no pressure.
2. Air and gas flows based on 0°C @ sea level; capacities for preheated air will differ from those shown.
3. Flame lengths measured from the end of the refractory tile.
4. All data based on industry standard air and gas piping practices.
5. Excess fuel firing not recommended.
6. Flame scanning via flame rod available. For flame rod firing limits, consult Hauck.





## WHG WALL HUGGER GAS BURNER

### BURNER MODEL WHG 120B

	STATIC AIR PRESSURE (OSIG) AT BURNER INLET TAP					
	1 OSIG	4 OSIG	8 OSIG	12 OSIG	16 OSIG	20 OSIG
<b>Burner Input @ 10% Excess Air (Btu/hr)</b>	<b>175,000</b>	<b>310,000</b>	<b>445,000</b>	<b>560,000</b>	<b>660,000</b>	<b>720,000</b>
Max. Air Flow (Not Firing) (scfh)					<b>6,950</b>	
Max. Air Flow (scfh)	1,840	3,230	4,590	5,780	6,820	7,470
Burner Air Orifice ΔP ("wc)	---	---	---	---	---	---
Gas Inlet Pressure ("wc)	0.2	0.3	0.9	1.4	2.1	2.5
Max. Excess Air – UV Scanner (%)	510	480	470	400	400	390
Flame Length (in.)	3	3	3	3	3	3
Flame Diameter (in.)	4	5	8	17	26	30
Min. Ignition Gas Flow (scfh)	30	55	80	115	135	150

**NOTES:**

1. Capacities based on natural gas with HHV of 1034 Btu/ft<sup>3</sup>, 0.59 S.G. and a stoichiometric air/gas ratio of 9.74:1 with burner firing into chamber under no pressure.
2. Air and gas flows based on 60°F @ sea level; capacities for preheated air will differ from those shown.
3. Flame lengths measured from the end of the refractory tile.
4. All data based on industry standard air and gas piping practices.
5. Excess fuel firing not recommended.
6. Flame scanning via flame rod available. For flame rod firing limits, consult Hauck.

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# METRIC DATA

## WHG WALL HUGGER GAS BURNER

### BURNER MODEL WHG 120B

	STATIC AIR PRESSURE (Pa) AT BURNER INLET TAP					
	430 Pa	1725 Pa	3450 Pa	5170 Pa	6900 Pa	8620 Pa
<b>Burner Input @ 10% Excess Air (kW)</b>	<b>45</b>	<b>80</b>	<b>115</b>	<b>150</b>	<b>175</b>	<b>190</b>
Max. Air Flow (Not Firing) (nm <sup>3</sup> /hr)					186	
Max. Air Flow (nm <sup>3</sup> /hr)	49	87	123	155	183	200
Burner Air Orifice ΔP (Pa)	---	---	---	---	---	---
Gas Inlet Pressure (Pa)	50	75	225	350	520	620
Max. Excess Air – UV Scanner (%)	510	480	470	400	400	390
Flame Length (mm)	75	75	75	75	75	75
Flame Diameter (mm)	100	130	200	430	660	760
Min. Ignition Gas Flow (nm <sup>3</sup> /hr)	0.8	1.5	2.1	3.1	3.6	4.0

#### NOTES:

1. Capacities based on natural gas with LHV of 36.74 MJ/nm<sup>3</sup>, 0.59 S.G. and a stoichiometric air/gas ratio of 9.74:1 with burner firing into chamber under no pressure.
2. Air and gas flows based on 0°C @ sea level; capacities for preheated air will differ from those shown.
3. Flame lengths measured from the end of the refractory tile.
4. All data based on industry standard air and gas piping practices.
5. Excess fuel firing not recommended.
6. Flame scanning via flame rod available. For flame rod firing limits, consult Hauck.



**WHG WALL HUGGER GAS BURNER**

**BURNER MODEL WHG 125B**

		STATIC AIR PRESSURE (OSIG) AT BURNER INLET TAP					
		1 OSIG	4 OSIG	8 OSIG	12 OSIG	16 OSIG	20 OSIG
<b>Burner Input @ 10% Excess Air</b>	<b>(Btu/hr)</b>	<b>235,000</b>	<b>465,000</b>	<b>660,000</b>	<b>820,000</b>	<b>950,000</b>	<b>1,050,000</b>
Max. Air Flow (Not Firing)	(scfh)					<b>10,100</b>	
Max. Air Flow	(scfh)	2,410	4,820	6,820	8,490	9,870	10,800
Burner Air Orifice ΔP	("wc)	---	---	---	---	---	---
Gas Inlet Pressure	("wc)	0.2	0.8	1.6	2.5	3.2	3.8
Max. Excess Air – UV Scanner	(%)	240	240	270	300	280	260
Flame Length	(in.)	4	4	4	4	4	4
Flame Diameter	(in.)	4	6	10	20	30	35
Min. Ignition Gas Flow	(scfh)	70	140	185	210	260	300

**NOTES:**

1. Capacities based on natural gas with HHV of 1034 Btu/ft<sup>3</sup>, 0.59 S.G. and a stoichiometric air/gas ratio of 9.74:1 with burner firing into chamber under no pressure.
2. Air and gas flows based on 60°F @ sea level; capacities for preheated air will differ from those shown.
3. Flame lengths measured from the end of the refractory tile.
4. All data based on industry standard air and gas piping practices.
5. Excess fuel firing not recommended.
6. Flame scanning via flame rod available. For flame rod firing limits, consult Hauck.

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# METRIC DATA

## WHG WALL HUGGER GAS BURNER

### BURNER MODEL WHG 125B

	STATIC AIR PRESSURE (Pa) AT BURNER INLET TAP					
	430 Pa	1725 Pa	3450 Pa	5170 Pa	6900 Pa	8620 Pa
<b>Burner Input @ 10% Excess Air (kW)</b>	<b>62</b>	<b>125</b>	<b>175</b>	<b>215</b>	<b>250</b>	<b>275</b>
Max. Air Flow (Not Firing) (nm <sup>3</sup> /hr)					270	
Max. Air Flow (nm <sup>3</sup> /hr)	65	129	183	227	264	289
Burner Air Orifice ΔP (Pa)	---	---	---	---	---	---
Gas Inlet Pressure (Pa)	50	200	400	625	800	945
Max. Excess Air – UV Scanner (%)	240	240	270	300	280	260
Flame Length (mm)	100	100	100	100	100	100
Flame Diameter (mm)	100	150	250	500	760	890
Min. Ignition Gas Flow (nm <sup>3</sup> /hr)	1.9	3.8	5.0	5.6	7.0	8.0

#### NOTES:

1. Capacities based on natural gas with LHV of 36.74 MJ/nm<sup>3</sup>, 0.59 S.G. and a stoichiometric air/gas ratio of 9.74:1 with burner firing into chamber under no pressure.
2. Air and gas flows based on 0°C @ sea level; capacities for preheated air will differ from those shown.
3. Flame lengths measured from the end of the refractory tile.
4. All data based on industry standard air and gas piping practices.
5. Excess fuel firing not recommended.
6. Flame scanning via flame rod available. For flame rod firing limits, consult Hauck.



## WHG WALL HUGGER GAS BURNER

### BURNER MODEL WHG 130C

		STATIC AIR PRESSURE (OSIG) AT BURNER INLET TAP					
		1 OSIG	4 OSIG	8 OSIG	12 OSIG	16 OSIG	20 OSIG
<b>Burner Input @ 10% Excess Air</b>	<b>(Btu/hr)</b>	<b>340,000</b>	<b>685,000</b>	<b>975,000</b>	<b>1,170,000</b>	<b>1,350,000</b>	<b>1,500,000</b>
Max. Air Flow (Not Firing)	(scfh)					<b>14,200</b>	
Max. Air Flow	(scfh)	3,530	7,070	10,100	12,100	13,900	15,600
Burner Air Orifice ΔP	("wc)	---	---	---	---	---	---
Gas Inlet Pressure	("wc)	0.2	0.7	1.4	2.0	2.7	3.4
Max. Excess Air – UV Scanner	(%)	390	330	310	310	310	310
Flame Length	(in.)	5	5	5	5	5	5
Flame Diameter	(in.)	6	8	18	24	35	38
Min. Ignition Gas Flow	(scfh)	70	160	245	285	335	350

**NOTES:**

1. Capacities based on natural gas with HHV of 1034 Btu/ft<sup>3</sup>, 0.59 S.G. and a stoichiometric air/gas ratio of 9.74:1 with burner firing into chamber under no pressure.
2. Air and gas flows based on 60°F @ sea level; capacities for preheated air will differ from those shown.
3. Flame lengths measured from the end of the refractory tile.
4. All data based on industry standard air and gas piping practices.
5. Excess Fuel firing not recommended.
6. Flame scanning via flame rod available. For flame rod firing limits, consult Hauck.

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# METRIC DATA

## WHG WALL HUGGER GAS BURNER

### BURNER MODEL WHG 130C

	STATIC AIR PRESSURE (Pa) AT BURNER INLET TAP					
	430 Pa	1725 Pa	3450 Pa	5170 Pa	6900 Pa	8620 Pa
<b>Burner Input @ 10% Excess Air (kW)</b>	<b>90</b>	<b>180</b>	<b>260</b>	<b>310</b>	<b>355</b>	<b>400</b>
Max. Air Flow (Not Firing) (nm <sup>3</sup> /hr)					380	
Max. Air Flow (nm <sup>3</sup> /hr)	94	189	271	324	373	417
Burner Air Orifice ΔP (Pa)	---	---	---	---	---	---
Gas Inlet Pressure (Pa)	50	175	350	500	670	850
Max. Excess Air – UV Scanner (%)	390	330	310	310	310	310
Flame Length (mm)	125	125	125	125	125	125
Flame Diameter (mm)	150	200	450	600	890	965
Min. Ignition Gas Flow (nm <sup>3</sup> /hr)	1.9	4.3	6.6	7.6	9.0	9.4

#### NOTES:

1. Capacities based on natural gas with LHV of 36.74 MJ/nm<sup>3</sup>, 0.59 S.G. and a stoichiometric air/gas ratio of 9.74:1 with burner firing into chamber under no pressure.
2. Air and gas flows based on 0°C @ sea level; capacities for preheated air will differ from those shown.
3. Flame lengths measured from the end of the refractory tile.
4. All data based on industry standard air and gas piping practices.
5. Excess fuel firing not recommended.
6. Flame scanning via flame rod available. For flame rod firing limits, consult Hauck.



**WHG WALL HUGGER GAS BURNER**

**BURNER MODEL WHG 140C**

	STATIC AIR PRESSURE (OSIG) AT BURNER INLET TAP					
	1 OSIG	4 OSIG	8 OSIG	12 OSIG	16 OSIG	20 OSIG
<b>Burner Input @ 10% Excess Air (Btu/hr)</b>	<b>575,000</b>	<b>1,150,000</b>	<b>1,650,000</b>	<b>2,000,000</b>	<b>2,300,000</b>	<b>2,600,000</b>
Max. Air Flow (Not Firing) (scfh)					<b>24,400</b>	
Max. Air Flow (scfh)	5,980	12,000	16,900	20,700	23,900	27,000
Burner Air Orifice ΔP ("wc)	---	---	---	---	---	---
Gas Inlet Pressure ("wc)	0.3	1.2	2.5	3.7	5.0	6.4
Max. Excess Air – UV Scanner (%)	240	275	200	200	175	175
Flame Length (in.)	6	6	6	6	6	6
Flame Diameter (in.)	6	10	20	30	40	44
Min. Ignition Gas Flow (scfh)	175	300	Will not Ignite	Will not Ignite	Will not Ignite	Will not Ignite

**NOTES:**

1. Capacities based on natural gas with HHV of 1034 Btu/ft<sup>3</sup>, 0.59 S.G. and a stoichiometric air/gas ratio of 9.74:1 with burner firing into chamber under no pressure.
2. Air and gas flows based on 60°F @ sea level; capacities for preheated air will differ from those shown.
3. Flame lengths measured from the end of the refractory tile.
4. All data based on industry standard air and gas piping practices.
5. Excess fuel firing not recommended.
6. Flame scanning via flame rod available. For flame rod firing limits, consult Hauck.

(See Reverse Side for Metric Data)

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

# METRIC DATA

## WHG WALL HUGGER GAS BURNER

### BURNER MODEL WHG 140C

	STATIC AIR PRESSURE (Pa) AT BURNER INLET TAP					
	430 Pa	1725 Pa	3450 Pa	5170 Pa	6900 Pa	8620 Pa
<b>Burner Input @ 10% Excess Air (kW)</b>	<b>150</b>	<b>305</b>	<b>440</b>	<b>530</b>	<b>610</b>	<b>690</b>
Max. Air Flow (Not Firing) (nm <sup>3</sup> /hr)					654	
Max. Air Flow (nm <sup>3</sup> /hr)	160	320	453	555	641	722
Burner Air Orifice ΔP (Pa)	---	---	---	---	---	---
Gas Inlet Pressure (Pa)	75	300	625	920	1,240	1,600
Max. Excess Air – UV Scanner (%)	240	275	200	200	175	175
Flame Length (mm)	150	150	150	150	150	150
Flame Diameter (mm)	150	250	500	760	1,020	1,120
Min. Ignition Gas Flow (nm <sup>3</sup> /hr)	4.7	8.0	Will not Ignite	Will not Ignite	Will not Ignite	Will not Ignite

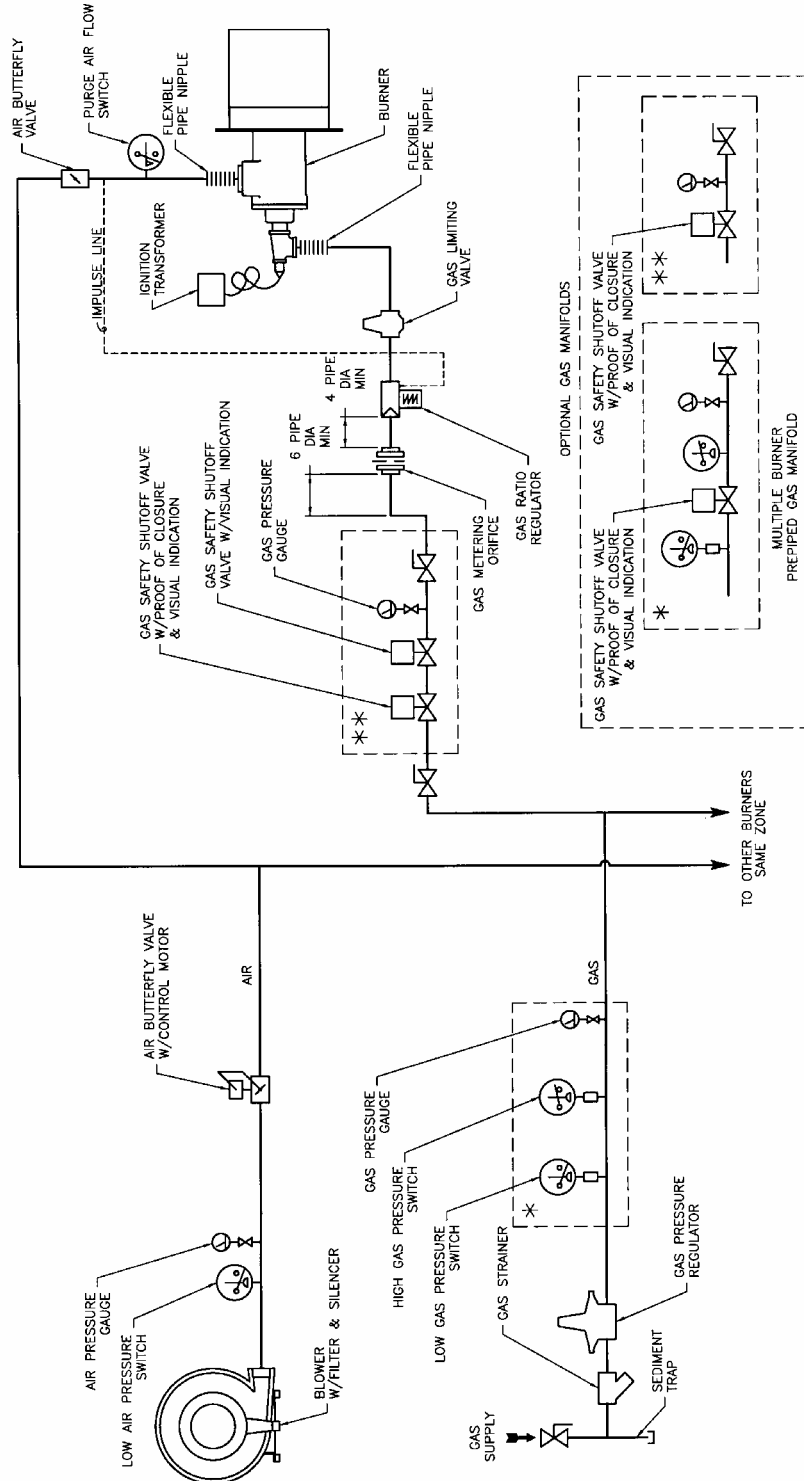
#### NOTES:

1. Capacities based on natural gas with LHV of 36.74 MJ/nm<sup>3</sup>, 0.59 S.G. and a stoichiometric air/gas ratio of 9.74:1 with burner firing into chamber under no pressure.
2. Air and gas flows based on 0°C @ sea level; capacities for preheated air will differ from those shown.
3. Flame lengths measured from the end of the refractory tile.
4. All data based on industry standard air and gas piping practices.
5. Excess fuel firing not recommended.
6. Flame scanning via flame rod available. For flame rod firing limits, consult Hauck.



# WHG WALL HUGGER GAS BURNER

## TYPICAL MULTIPLE BURNER SYSTEM RATIO CONTROL



X6421  
(NOT TO SCALE)

- NOTES:
- OPTIONAL GAS MANIFOLDS ARE PERMITTED AS AN EXCEPTION PER NFPA 86 2003 EDITION REQUIREMENTS FOR MULTIPLE BURNERS FIRING INTO A COMMON HEATING CHAMBER. HOWEVER, SPECIAL FEATURES ARE REQUIRED IN THE ASSOCIATED CONTROL SYSTEM (SEE HAUCK APPLICATION SHEET GJ76).

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