



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/ft³, 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

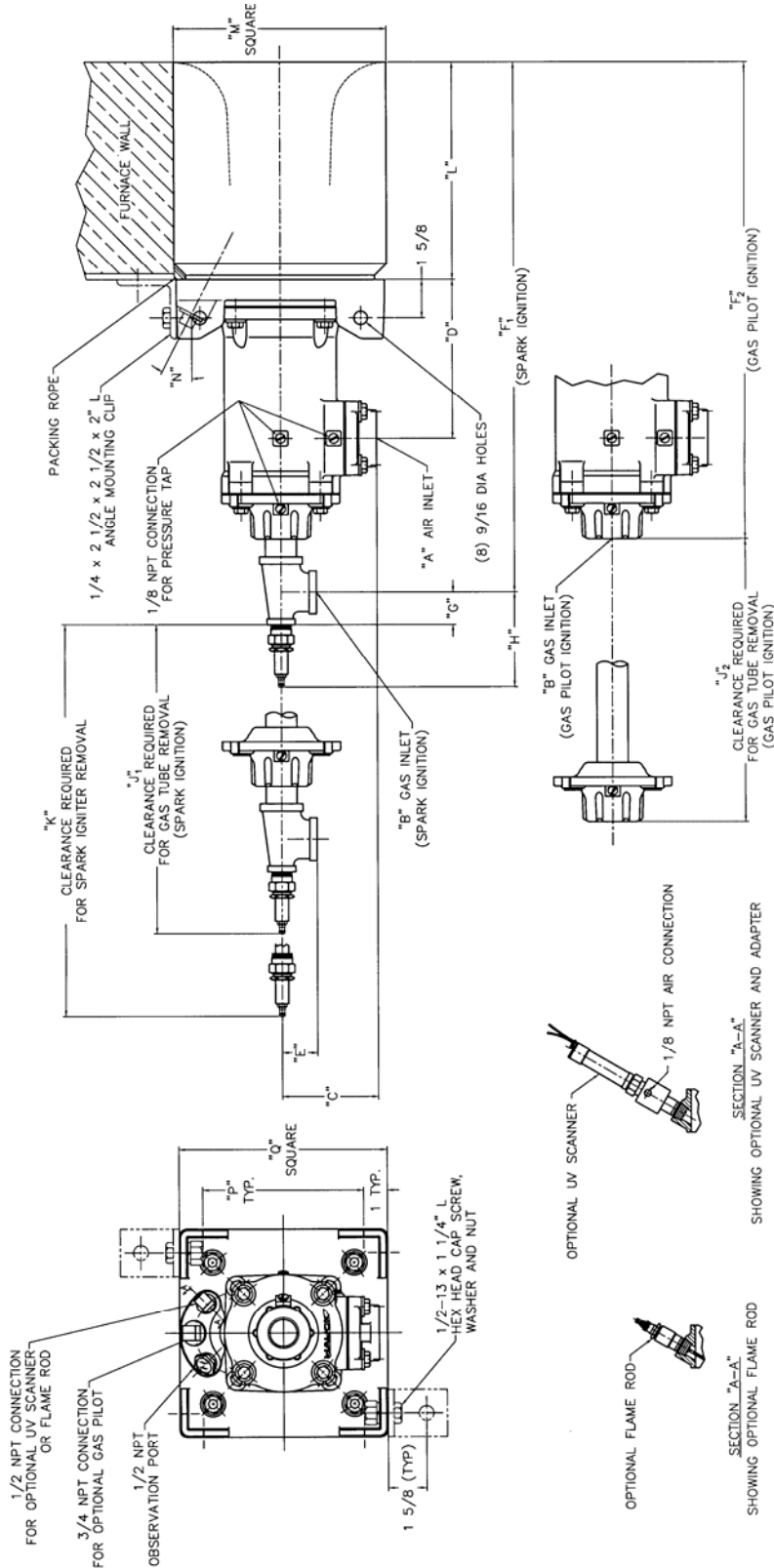
WHG WALL HUGGER GAS BURNER

| SPECIFICATIONS | | MODEL NUMBER | | | | | |
|--|--|--------------|------|------|------|------|------|
| | | 112 | 115 | 120 | 125 | 130 | 140 |
| H I G H F I R E | Max. Input @ 10% Excess Air (kW) | 47 | 115 | 175 | 250 | 355 | 610 |
| | Max. Air Flow @ 6,900 Pa (nm ³ /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 |
| | | | | | | | |
| L O W F I R E | Max. Input @ 10% Excess Air (kW) | 12 | 30 | 45 | 62 | 90 | 150 |
| | Air Flow @ 430 Pa (nm ³ /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/nm³, 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 ₁ | F ₂ | G | H | J ₁ | J ₂ | 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 |

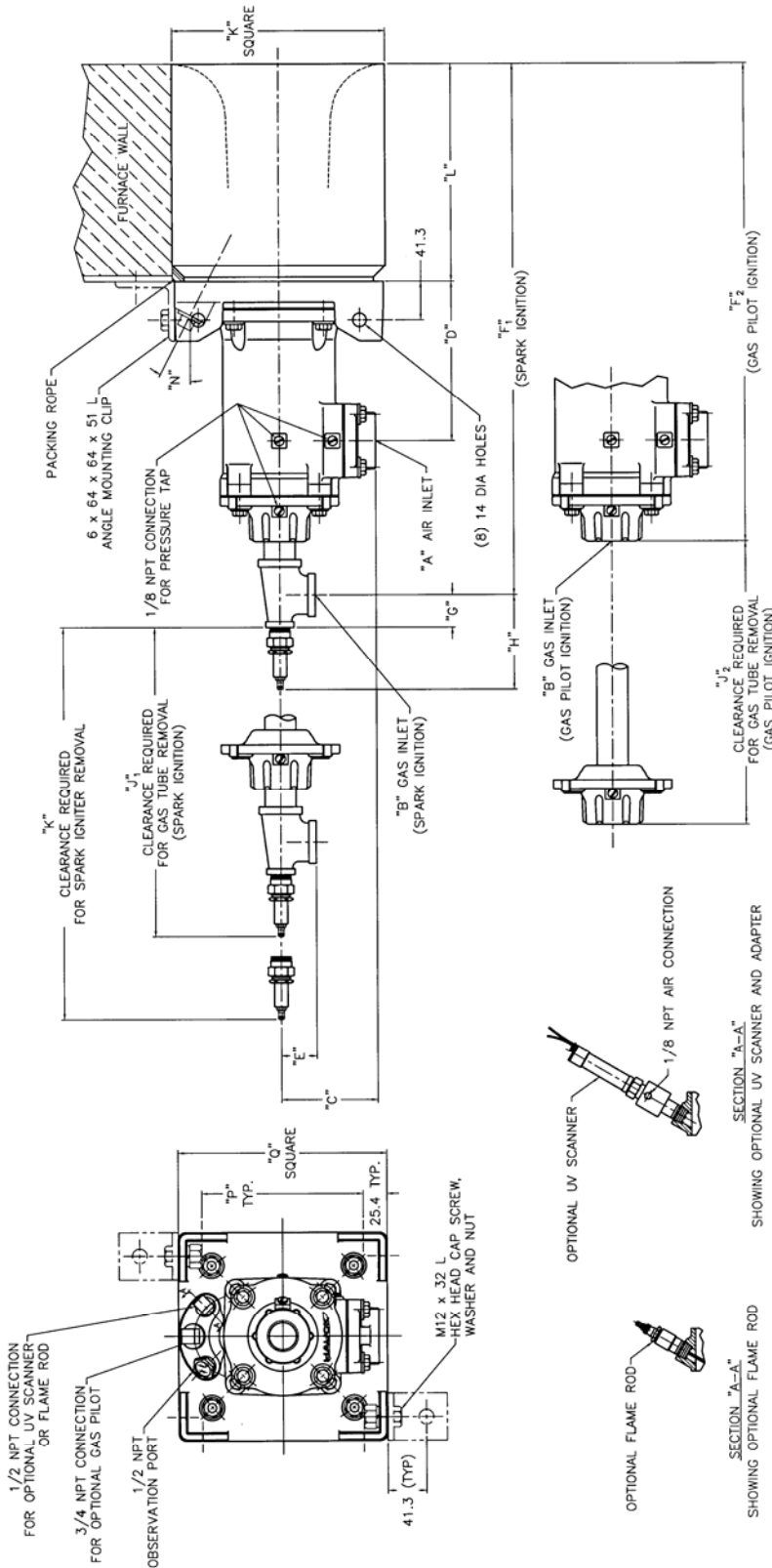
Y1494
(NOT TO SCALE)

(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 ₁ | F ₂ | G | H | I | J ₁ | J ₂ | 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 | 224 |
| WHG 115B | 1 1/2 NPT | 1 NPT | 105 | 171 | 38 | 575 | 514 | 30 | 108 | 337 | 252 | 476 | 235 | 229 | 27 | 173 | 224 | 224 |
| WHG 120B | 2 NPT | 1 1/4 NPT | 114 | 171 | 44 | 584 | 521 | 40 | 100 | 324 | 275 | 476 | 235 | 229 | 30' | 279 | 330 | 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 | 330 |
| WHG 130C | 3 NPT | 2 NPT | 152 | 235 | 57 | 689 | 608 | 48 | 124 | 429 | 346 | 606 | 235 | 229 | 30' | 279 | 330 | 330 |
| WHG 140C | 4 NPT | 2 1/2 NPT | 156 | 235 | 68 | 705 | 608 | 56 | 110 | 406 | 346 | 606 | 235 | 229 | 30' | 279 | 330 | 330 |

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(NOT TO SCALE)

NOTES:
1. DIMENSIONS ARE IN MM

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



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 |
| Burner Input @ 10% Excess Air | (Btu/hr) | 45,000 | 90,000 | 125,000 | 150,000 | 175,000 | 200,000 |
| Max. Air Flow (Not Firing) | (scfh) | | | | | 1,875 | |
| 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/ft³, 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 |
| Burner Input @ 10% Excess Air (kW) | 12 | 24 | 33 | 40 | 47 | 53 |
| Max. Air Flow (Not Firing) (nm ³ /hr) | | | | | 50 | |
| Max. Air Flow (nm ³ /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 ³ /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/nm³, 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 |
| Burner Input @ 10% Excess Air | (Btu/hr) | 110,000 | 215,000 | 300,000 | 375,000 | 430,000 | 485,000 |
| Max. Air Flow (Not Firing) | (scfh) | | | | | 4,500 | |
| 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/ft³, 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 115B

| | STATIC AIR PRESSURE (Pa) AT BURNER INLET TAP | | | | | |
|--|--|-----------|-----------|------------|------------|------------|
| | 430 Pa | 1725 Pa | 3450 Pa | 5170 Pa | 6900 Pa | 8620 Pa |
| Burner Input @ 10% Excess Air (kW) | 30 | 60 | 80 | 100 | 115 | 130 |
| Max. Air Flow (Not Firing) (nm ³ /hr) | | | | | 120 | |
| Max. Air Flow (nm ³ /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 ³ /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/nm³, 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 |
| Burner Input @ 10% Excess Air | (Btu/hr) | 175,000 | 310,000 | 445,000 | 560,000 | 660,000 | 720,000 |
| Max. Air Flow (Not Firing) | (scfh) | | | | | 6,950 | |
| 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/ft³, 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 120B

| | STATIC AIR PRESSURE (Pa) AT BURNER INLET TAP | | | | | |
|--|--|-----------|------------|------------|------------|------------|
| | 430 Pa | 1725 Pa | 3450 Pa | 5170 Pa | 6900 Pa | 8620 Pa |
| Burner Input @ 10% Excess Air (kW) | 45 | 80 | 115 | 150 | 175 | 190 |
| Max. Air Flow (Not Firing) (nm ³ /hr) | | | | | 186 | |
| Max. Air Flow (nm ³ /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 ³ /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/nm³, 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 |
| Burner Input @ 10% Excess Air | (Btu/hr) | 235,000 | 465,000 | 660,000 | 820,000 | 950,000 | 1,050,000 |
| Max. Air Flow (Not Firing) | (scfh) | | | | | 10,100 | |
| 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/ft³, 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 125B

| | STATIC AIR PRESSURE (Pa) AT BURNER INLET TAP | | | | | |
|--|--|------------|------------|------------|------------|------------|
| | 430 Pa | 1725 Pa | 3450 Pa | 5170 Pa | 6900 Pa | 8620 Pa |
| Burner Input @ 10% Excess Air (kW) | 62 | 125 | 175 | 215 | 250 | 275 |
| Max. Air Flow (Not Firing) (nm ³ /hr) | | | | | 270 | |
| Max. Air Flow (nm ³ /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 ³ /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/nm³, 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 |
| Burner Input @ 10% Excess Air (Btu/hr) | 340,000 | 685,000 | 975,000 | 1,170,000 | 1,350,000 | 1,500,000 |
| Max. Air Flow (Not Firing) (scfh) | | | | | 14,200 | |
| 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/ft³, 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 130C

| | STATIC AIR PRESSURE (Pa) AT BURNER INLET TAP | | | | | |
|--|--|------------|------------|------------|------------|------------|
| | 430 Pa | 1725 Pa | 3450 Pa | 5170 Pa | 6900 Pa | 8620 Pa |
| Burner Input @ 10% Excess Air (kW) | 90 | 180 | 260 | 310 | 355 | 400 |
| Max. Air Flow (Not Firing) (nm ³ /hr) | | | | | 380 | |
| Max. Air Flow (nm ³ /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 ³ /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/nm³, 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 |
| Burner Input @ 10% Excess Air (Btu/hr) | 575,000 | 1,150,000 | 1,650,000 | 2,000,000 | 2,300,000 | 2,600,000 |
| Max. Air Flow (Not Firing) (scfh) | | | | | 24,400 | |
| 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/ft³, 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

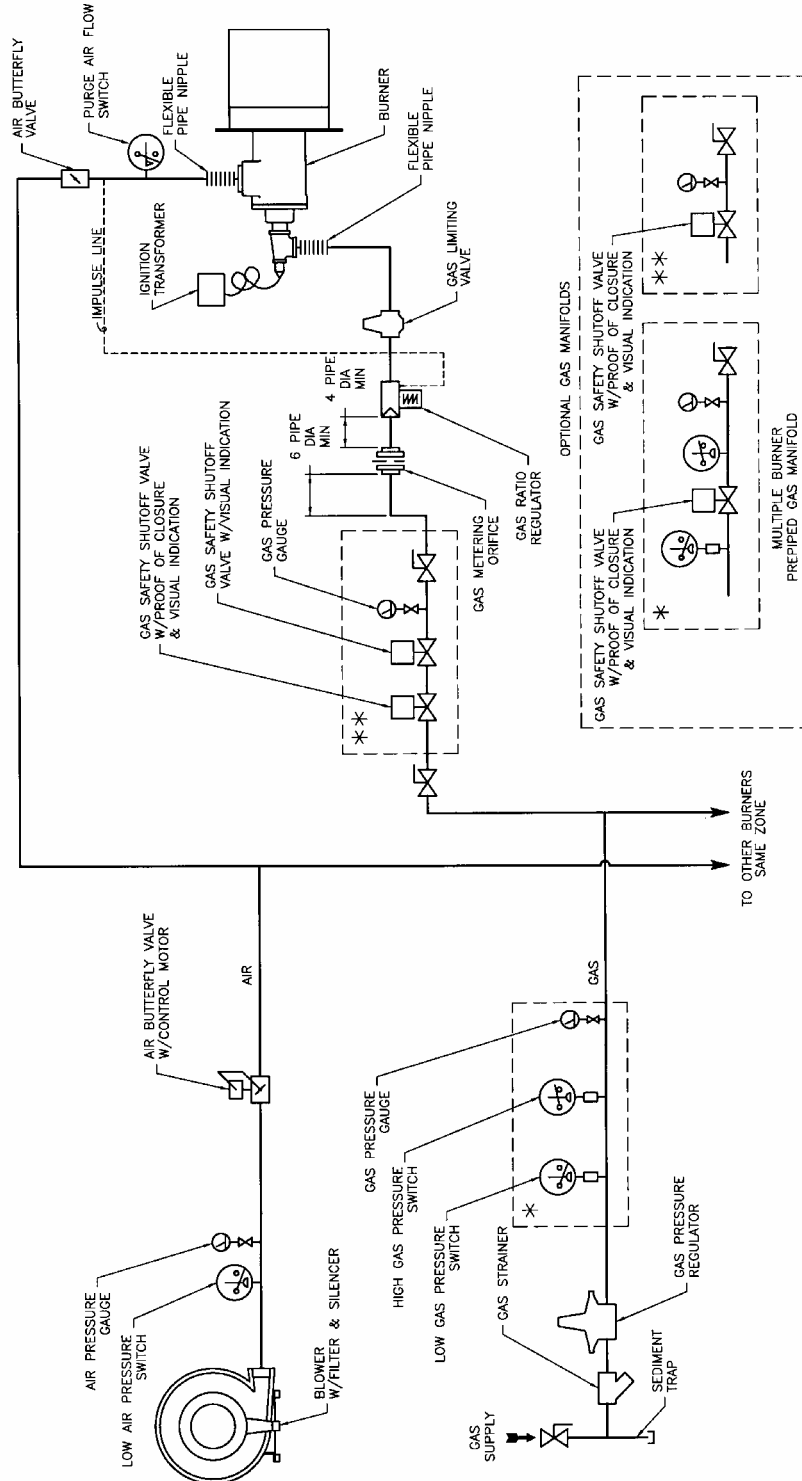
| | STATIC AIR PRESSURE (Pa) AT BURNER INLET TAP | | | | | |
|--|--|------------|-----------------|-----------------|-----------------|-----------------|
| | 430 Pa | 1725 Pa | 3450 Pa | 5170 Pa | 6900 Pa | 8620 Pa |
| Burner Input @ 10% Excess Air (kW) | 150 | 305 | 440 | 530 | 610 | 690 |
| Max. Air Flow (Not Firing) (nm ³ /hr) | | | | | 654 | |
| Max. Air Flow (nm ³ /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 ³ /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/nm³, 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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