INSERIES TECHNICAL DATA INFORMATION PACKET



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Technical DataM Series

Uncontrolled Emissions Configuration (MG, MM#2, MMG#2)

1.4 - 10.5 MM BTU/H NG; 10 - 75 GPH #2 OIL

UL listed with choice of NFPA, CSD-1, GAP, and FM for U.S. or Canadian units

| Standard equipment: | Combustion Control System options: | Fuel options: |
|---|--|--|
| 3450 RPM motor, panel signal lights (Power On, Main Fuel, Ignition, Flame Failure), dry oven and gasket, combustion air proving switch, high fire air proving switch, 120/1/60 control circuit, burner mounted panel, hinged blast tube with right-hand swing. Gas and gas/oil units only: shipped loose gas train. | Parallel Positioning Combustion Control System with O ₂ Trim and Variable Frequency Drive (VFD) | Main Fuel: Natural gas (MG), #2 oil - air atomized (MM#2) or Combination gas/ #2 oil - air atomized (MMG#2). Igniter Fuel: Natural gas and/or propane. Fuel Changeover Switch: Combination gas/oil units only (MMG#2). |

Series Features ♦ Optional Feature Flame Safeguard **UV** Scanner Mode of Operation Full Modulation Firing Auto-Manual Firing Rate Control •1 •1 •1 •1 •1 •1 Cam Trim \Diamond \Diamond \Diamond Ignition •2 •2 •2 •2 •2 Gas/Electric Pilot and Ignition Transformer • Direct Spark (ML) **Oil Components** 3-Way Solenoid Valve 2-Way Solenoid Valve 3-Way Motorized POC Valve \Diamond \Diamond \Diamond \Diamond \Diamond \Diamond 2-Way Motorized POC Valve \Diamond \Diamond \Diamond \Diamond \Diamond \Diamond Atomizing Air Proving Switch Low Oil Pressure Switch \Diamond \Diamond \Diamond \Diamond \Diamond \Diamond Burner Mounted Integral Oil/Air System **Gas Components Butterfly Rate Control Valve** High & Low Gas Pressure Interlocks \Diamond \Diamond Gas Shutoff Cocks (2) •

 \Diamond

 \Diamond

 \Diamond

Motorized Valve w/o POC & Solenoid Valve

Motorized Valve w/ POC & Solenoid Valve

Standard for full modulation; optional on select parallel positioning systems

² Standard for MG and MMG#2 burners

Standard Ratings M Series

MG - MM#2 - MMG#2: Gas, #2 Oil, Gas/Oil Configuration

| | Gas Input MBH | #2 Oil Input GPH | BHP @ 80% Eff. | Blower Motor HP "S" ¹ | Blower Motor HP "P" ² | Integral Oil/ Air System Motor HP 3 Phase | Standard Gas Train Pipe Size (in.) | Min. Gas Press. ("w.c.) ³ | |
|----------------------|---------------------|------------------------|-------------------|--|--|--|---|--|---------------------|
| Model No. & Frame Si | ze | | | | | | | | |
| M-14-1 | 1,400 | 10.0 | 33 | 1/2 | - | 3/4 | 1 | 10.9 | |
| M-16-1 | 1,680 | 12.0 | 40 | 1/2 | - | 3/4 | 1 | 15.7 | |
| M-19-1 | 1,960 | 14.0 | 47 | 1/2 | - | 3/4 | 1 1/2 | 8.8 | 208 / |
| M-22-1 | 2,200 | 15.7 | 52 | 1/2 | - | 3/4 | 1 1/2 | 10.3 | 208 / 230 / 460 / 3 |
| M-25-2 | 2,490 | 18.0 | 59 | 2 | - | 3/4 | 1 1/2 | 10.1 | 30 / 3 |
| M-28-2 | 2,800 | 20.0 | 67 | 2 | - | 3/4 | 1 1/2 | 12.0 | |
| M-30-2 | 3,150 | 22.5 | 75 | 2 | - | 3/4 | 1 1/2 | 14.9 | |
| M-34-3 | 3,500 | 25.0 | 83 | 2 | 2 | 1 | 1 1/2 | 19.0 | 230 / 460 / 3 |
| M-42-3 | 4,200 | 30.0 | 104 | 2 | 2 | 1 | 2 | 9.2 | 160/3 |
| M-54-3 | 5,600 | 40.0 | 133 | 2 | 3 | 1 | 2 | 16.1 | |
| M-63-3 | 6,300 | 45.0 | 150 | 3 | 3 | 2 | 2 | 20.3 | 460 / 3 |
| M-84-4 | 8,400 | 60.0 | 200 | 5 | 7 1/2 | 2 | 2 1/2 | 18.0 | /3 |
| M-105-4 | 10,500 | 75.0 | 250 | 7 1/2 | 7 1/2 | 2 | 3 | 16.0 | |

 $^{^{\}rm 1}$ Use model "S" up to 0.75" w.c. furnace pressure, consult factory for higher pressures

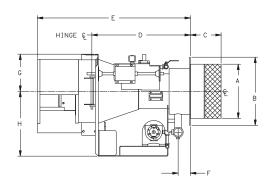
Input is based on fuel BTU content, listed furnace pressure and altitude of 2,000 feet or less. If altitude > 2,000 feet and < 8,000 feet, derate capacity 4% per 1,000 feet over 2,000. Consult factory for higher altitudes. If furnace pressure exceeds listed value, derate capacity 5% for every 0.5" w.c. of pressure in excess of stated. Consult factory if derate exceeds 20%. Gas input is based on natural gas with 1,000 BTU/cu.ft. and 0.60 gravity. For total pressure at manifold, add furnace pressure. Oil input based on 140,000 BTU/gal and the aforementioned conditions. Consult factory for 50 Hz. applications.

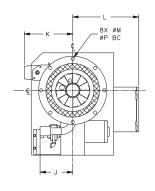
 $^{^{\}rm 2}$ Use model "P" up to 2.0" w.c. furnace pressure, consult facotry for higher pressures

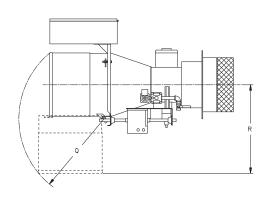
³ Standard gas pressures only, consult factory for lower gas pressures

Standard DimensionsM Series

MG - MM#2 - MMG#2: Gas, #2 Oil, Gas/Oil Configuration







| | | Burner Frame Size | | | | |
|--------------------------------------|-----|-------------------|--------|--------|--------|--|
| | DIM | Size 1 | Size 2 | Size 3 | Size 4 | |
| Length in inches | | | | | | |
| Overall length | Е | 40 | 41 3/4 | 44 7/8 | 54 3/4 | |
| Width in inches | | | | | | |
| Center line to right side | K | 14 7/8 | 13 7/8 | 14 3/8 | 15 1/8 | |
| Center line to left side | L | 18 | 19 3/4 | 19 3/8 | 24 | |
| Height in inches | | | | | | |
| Center line to top | G | 9 1/4 | 10 | 10 3/4 | 16 1/2 | |
| Center line to bottom | Н | 12 3/8 | 15 1/2 | 19 | 23 | |
| Dry oven dimensions in inches | | | | | | |
| Diameter of dry oven | Α | 12 | 13 | 15 7/8 | 19 | |
| Depth of dry oven | С | 6 | 6 | 9 | 10 | |
| Mounting flange dimensions in inches | | | | | | |
| Diameter | В | 15 | 16 | 20 | 23 | |
| Flange to hinge | D | 23 1/2 | 25 3/8 | 28 7/8 | 35 1/8 | |
| Bolt hole diameter | М | 1/2 | 1/2 | 15/16 | 15/16 | |
| Bolt circle diameter | Р | 13 3/4 | 14 1/2 | 18 1/2 | 21 | |
| Hinge swing dimensions in inches | | | | | | |
| Hinge swing radius | Q | 23 | 24 | 25 | 33 | |
| Center line to outer hinge clearance | R | 24 1/2 | 25 3/8 | 26 | 34 1/8 | |
| Gas inlet dimensions in inches | | | | | | |
| Mounting flange to gas inlet | F | 1 7/8 | 1 7/8 | 3 5/8 | 3 3/4 | |

Accompanying dimensions, while sufficiently accurate for layout purposes, must be confirmed for construction.

Technical DataM Series

Uncontrolled Emissions Configuration (MM, MMG)

1.4 - 10.5 MM BTU/H NG; 9.6 - 72.4 GPH #2-5 OIL

UL listed with choice of NFPA, CSD-1, GAP, and FM for U.S. or Canadian units

| Standard equipment: | Combustion Control System options: | Fuel options: |
|---|--|--|
| 3450 RPM motor, panel signal lights (Power On, Main Fuel, Ignition, Flame Failure), dry oven and gasket, combustion air proving switch, high fire air proving switch, 120/1/60 control circuit, burner mounted panel, hinged blast tube with right-hand swing. Gas and gas/oil units only: shipped loose gas train. | Parallel Positioning Combustion Control System with O ₂ Trim and Variable Frequency Drive (VFD) | Main Fuel: #2-5 oil - Air atomized (MM) or Combination natural gas/ #2-5 oil - air atomized (MMG). Igniter Fuel: Natural gas and/or propane. Fuel Changeover Switch: Combination gas/oil units only (MMG). |

Series Features

♦ Optional Feature

| V Optional Feature | | | _ < | _ | _ < | ~ ~ |
|---|----------|-----------|-----------|-----------|-----------|-----------|
| Flame Safeguard | | | | | | |
| IR Scanner | • | • | • | • | • | • |
| Mode of Operation | | , | | | | • |
| Full Modulation Firing | • | • | • | • | • | • |
| Auto-Manual Firing Rate Control | •1 | •1 | •1 | •1 | ●1 | •1 |
| Cam Trim | ♦ | \Q | \Q | • | • | • |
| Ignition | | | | | | |
| Gas/Electric Pilot and Ignition Transformer | •2 | •2 | •2 | •2 | •2 | • |
| Direct Spark (MM) | • | • | • | • | • | |
| Oil Components | | , | | | • | |
| 3-Way Solenoid Valve | • | • | • | • | • | • |
| 2-Way Solenoid Valve | • | • | • | • | • | • |
| 3-Way Motorized POC Valve | ♦ | \Q | \Q | \Q | \Q | ◊ |
| 2-Way Motorized POC Valve | ♦ | \Q | ♦ | ◊ | \Q | \Q |
| Atomizing Air Proving Switch | • | • | • | • | • | • |
| Low Oil Pressure Switch | ♦ | \Q | \Q | ♦ | ♦ | ◊ |
| Burner Mounted Integral Oil/Air System | • | • | • | • | • | • |
| Nozzle Line Heater with Cold Oil Lockout | •3 | •3 | •3 | •3 | •3 | •3 |
| Gas Components | | | | | | |
| Butterfly Rate Control Valve | • | • | • | • | • | • |
| High & Low Gas Pressure Interlocks | ♦ | \Q | • | • | • | • |
| Gas Shutoff Cocks (2) | • | • | • | • | • | • |
| Motorized Valve w/o POC & Solenoid Valve | • | • | • | • | | |
| Motorized Valve w/ POC & Solenoid Valve | ♦ | \Q | \Q | ◊ | • | • |

¹ Standard for full modulation; optional on select parallel positioning systems

² Standard for MM and MMG burners

³ Standard for #4-5 oil only

Standard Ratings M Series

MM - MMG: #2-5 Oil, Gas/Oil Configuration

| | Gas Input MBH | #2-5 Oil Input GPH | BHP @ 80% Eff. | Blower Motor HP "S" ¹ | Blower Motor HP "P" ² | Integral Oil/ Air System Motor HP 3 Phase | Nozzle Line Heater 3 Phase (kw) | Standard Gas Train Pipe Size (in.) | Min. Gas Press. ("w.c.) ³ | |
|-------------|---------------------|--------------------------|-------------------|--|--|--|---------------------------------------|---|--|---------------------|
| Model No. & | Frame Size | | | | | | | | | |
| M-14-1 | 1,400 | 9.6 | 33 | 1/2 | - | 3/4 | 3 | 1 | 10.9 | |
| M-16-1 | 1,680 | 11.6 | 40 | 1/2 | - | 3/4 | 3 | 1 | 15.7 | |
| M-19-1 | 1,960 | 13.5 | 47 | 1/2 | - | 3/4 | 3 | 1 1/2 | 8.8 | 208 / |
| M-22-1 | 2,200 | 15.2 | 52 | 1/2 | - | 3/4 | 3 | 1 1/2 | 10.3 | 208 / 230 / 460 / 3 |
| M-25-2 | 2,490 | 17.4 | 59 | 2 | - | 3/4 | 3 | 1 1/2 | 10.1 | 30 / 3 |
| M-28-2 | 2,800 | 19.3 | 67 | 2 | - | 3/4 | 3 | 1 1/2 | 12.0 | |
| M-30-2 | 3,150 | 21.7 | 75 | 2 | - | 3/4 | 3 | 1 1/2 | 14.9 | |
| M-34-3 | 3,500 | 24.1 | 83 | 2 | 2 | 1 | 3 | 1 1/2 | 19.0 | 230 / 460 / 3 |
| M-42-3 | 4,200 | 29.0 | 104 | 2 | 2 | 1 | 3 | 2 | 9.2 | 160/3 |
| M-54-3 | 5,600 | 38.6 | 133 | 2 | 3 | 1 | 3 | 2 | 16.1 | |
| M-63-3 | 6,300 | 43.5 | 150 | 3 | 3 | 2 | 3 | 2 | 20.3 | 460 / 3 |
| M-84-4 | 8,400 | 58.0 | 200 | 5 | 7 1/2 | 2 | 5 | 2 1/2 | 18.0 |)/3 |
| M-105-4 | 10,500 | 72.4 | 250 | 7 1/2 | 7 1/2 | 2 | 5 | 3 | 16.0 | |

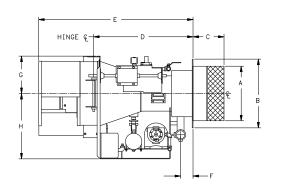
 $^{^{\}rm 1}$ Use model "S" up to 0.75" w.c. furnace pressure, consult factory for higher pressures $^{\rm 2}$ Use model "P" up to 2.0" w.c. furnace pressure, consult factory for higher pressures

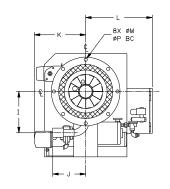
Input is based on fuel BTU content, listed furnace pressure and altitude of 2,000 feet or less. If altitude > 2,000 feet and < 8,000 feet, derate capacity 4% per 1,000 feet over 2,000. Consult factory for higher altitudes. If furnace pressure exceeds listed value, derate capacity 5% for every 0.5" w.c. of pressure in excess of stated. Consult factory if derate exceeds 20%. Gas input is based on natural gas with 1,000 BTU/cu.ft. and 0.60 gravity. For total pressure at manifold, add furnace pressure. Oil input based on 145,000 BTU/gal and the aforementioned conditions. Consult factory for 50 Hz. applications.

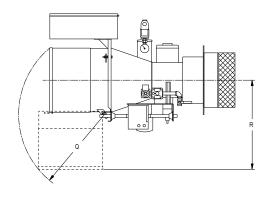
³ Standard gas pressures only, consult factory for lower gas pressures

Standard DimensionsM Series

MM - MMG: #2-5 Oil, Gas/Oil Configuration







| | | Burner Frame Size | | | | |
|--------------------------------------|-----|-------------------|--------|--------|--------|--|
| | DIM | Size 1 | Size 2 | Size 3 | Size 4 | |
| Length in inches | | | | | | |
| Overall length | E | 40 | 41 3/4 | 44 7/8 | 54 3/4 | |
| Width in inches | | | | | | |
| Center line to right side | K | 15 5/8 | 14 1/2 | 15 | 15 3/4 | |
| Center line to left side | L | 18 | 19 3/4 | 19 3/8 | 24 | |
| Height in inches | | | | | | |
| Center line to top | G | 9 1/4 | 10 | 10 3/4 | 16 1/2 | |
| Center line to bottom | Н | 12 3/8 | 15 1/2 | 19 | 23 | |
| Dry oven dimensions in inches | | | | | | |
| Diameter of dry oven | Α | 12 | 13 | 15 7/8 | 19 | |
| Depth of dry oven | С | 6 | 6 | 9 | 10 | |
| Mounting flange dimensions in inches | | | | | | |
| Diameter | В | 15 | 16 | 20 | 23 | |
| Flange to hinge | D | 23 1/2 | 25 3/8 | 28 7/8 | 35 1/8 | |
| Bolt hole diameter | М | 1/2 | 1/2 | 15/16 | 15/16 | |
| Bolt circle diameter | Р | 13 3/4 | 14 1/2 | 18 1/2 | 21 | |
| Hinge swing dimensions in inches | | | | | | |
| Hinge swing radius | Q | 23 | 24 | 25 | 33 | |
| Center line to outer hinge clearance | R | 24 1/2 | 25 3/8 | 26 | 34 1/8 | |
| Gas inlet dimensions in inches | | | | | | |
| Mounting flange to gas inlet | F | 1 7/8 | 1 7/8 | 3 5/8 | 3 3/4 | |
| Modifier gas mot | | 1 1/0 | | | | |

Accompanying dimensions, while sufficiently accurate for layout purposes, must be confirmed for construction.

Technical DataM Series

Uncontrolled Emissions Configuration (ME, MEG)

1.4 - 10.5 MM BTU/H NG; 9.3 - 70 GPH #2-6 OIL

UL listed with choice of NFPA, CSD-1, GAP, and FM for U.S. or Canadian units

* ME & MEG 14-30 are not UL listed

| Standard equipment: | Combustion Control System options: | Fuel options: |
|--|--|--|
| 3450 RPM motor, panel signal lights (Power On, Main Fuel, Ignition, Flame Failure), dry oven and gasket, combustion air proving switch, high fire air proving switch, 120/1/60 control circuit, burner | Parallel Positioning Combustion Control System with O ₂ Trim and Variable Frequency Drive (VFD) | Main Fuel: #6 oil - air atomized (ME) or Combination natural gas/ #6 oil - air atomized (MEG). |
| mounted panel, hinged blast tube with right-hand swing. Gas and gas/oil units only: shipped loose gas train. | | Igniter Fuel: Natural gas and/or propane. Fuel Changeover Switch: Combination |
| | | gas/oil units only (MEG). |

Series Features

♦ Optional Feature

| Optional Feature | Z | | Ž | 2 | 72 | 7. |
|---|-----------|-----------|----------|-----------|----------|----------|
| Flame Safeguard | | | | | | |
| IR Scanner | • | • | • | • | • | • |
| Mode of Operation | | | | | | |
| Full Modulation Firing | • | • | • | • | • | • |
| Auto-Manual Firing Rate Control | •1 | •1 | •1 | •1 | ●1 | ●1 |
| Cam Trim | ♦ | \Q | ♦ | • | • | • |
| Ignition | | | | | | |
| Gas/Electric Pilot and Ignition Transformer | •2 | •2 | •2 | •2 | •2 | • |
| Oil Components | | | | | | |
| 3-Way Solenoid Valve | • | • | • | • | • | • |
| 2-Way Solenoid Valve | • | • | • | • | • | • |
| 3-Way Motorized POC Valve | ♦ | ◊ | ♦ | ◊ | ♦ | ◊ |
| 2-Way Motorized POC Valve | ♦ | ◊ | ♦ | ♦ | ♦ | ◊ |
| Atomizing Air Proving Switch | • | • | • | • | • | • |
| Low Oil Pressure Switch | • | • | • | • | • | • |
| Burner Mounted Oil Metering System | • | • | • | • | • | • |
| Separately Mounted Air Compressor Module | | | | • | • | • |
| Nozzle Line Heater with Cold Oil Lockout | •3 | ●3 | •3 | •3 | •3 | •3 |
| Gas Components | · | | | | | |
| Butterfly Rate Control Valve | • | • | • | • | • | • |
| High & Low Gas Pressure Interlocks | ♦ | \Q | • | • | • | • |
| Gas Shutoff Cocks (2) | • | • | • | • | • | • |
| Motorized Valve w/o POC & Solenoid Valve | • | • | • | • | | |
| Motorized Valve w/ POC & Solenoid Valve | \Q | \Q | ♦ | \Q | • | • |
| | | | | | | |

¹ Standard for full modulation; optional on select parallel positioning systems

² Standard for ME and MEG burners

³ Standard for #4-5 oil only

Standard Ratings M Series

ME - MEG: #2-6 Oil, Gas/Oil Configuration

| | Gas Input MBH | #2-6 Oil Input GPH | BHP @ 80% Eff. | Blower Motor HP "S" ¹ | Blower Motor HP "P" ² | Integral Oil/Air System Motor HP 3 Phase | Separate Compressor Module Motor HP | Oil Metering System Motor HP | Nozzle Line Heater 3 Phase (kw) | Standard Gas Train Pipe Size (in.) | Min. Gas Press. ("w.c.) ³ | |
|-----------|---------------------|--------------------------|-------------------|--|--|---|--|--|---|---|--|---------------------|
| Model No. | & Frame S | ize | | | | | | | | | | |
| M-14-1 | 1,400 | 9.3 | 33 | 1/2 | - | 3/4 | - | - | 3 | 1 | 10.9 | |
| M-16-1 | 1,680 | 11.2 | 40 | 1/2 | - | 3/4 | - | - | 3 | 1 | 15.7 | |
| M-19-1 | 1,960 | 13.1 | 47 | 1/2 | - | 3/4 | - | - | 3 | 1 1/2 | 8.8 | ZU8 / |
| M-22-1 | 2,200 | 14.7 | 52 | 1/2 | - | 3/4 | - | - | 3 | 1 1/2 | 10.3 | 208 / 230 / 460 / 3 |
| M-25-2 | 2,490 | 16.8 | 59 | 2 | - | 3/4 | - | - | 3 | 1 1/2 | 10.1 | ٥ / ٥ |
| M-28-2 | 2,800 | 18.7 | 67 | 2 | - | 3/4 | - | - | 3 | 1 1/2 | 12.0 | |
| M-30-2 | 3,150 | 21.0 | 75 | 2 | - | 3/4 | - | - | 3 | 1 1/2 | 14.9 | |
| M-34-3 | 3,500 | 23.3 | 83 | 2 | 2 | - | 3 | 1/2 | 3 | 1 1/2 | 19.0 | 230 / 460 / 3 |
| M-42-3 | 4,200 | 28.0 | 104 | 2 | 2 | - | 3 | 1/2 | 3 | 2 | 9.2 | ر مو |
| M-54-3 | 5,600 | 37.3 | 133 | 2 | 3 | - | 3 | 1/2 | 3 | 2 | 16.1 | |
| M-63-3 | 6,300 | 42.0 | 150 | 3 | 3 | - | 3 | 1/2 | 3 | 2 | 20.3 | 400 / 3 |
| M-84-4 | 8,400 | 56.0 | 200 | 5 | 7 1/2 | - | 3 | 1/2 | 5 | 2 1/2 | 18.0 |) / 3 |
| M-105-4 | 10,500 | 70.0 | 250 | 7 1/2 | 7 1/2 | - | 3 | 1/2 | 5 | 3 | 16.0 | |

 $^{^{\}mbox{\tiny 1}}$ Use model "S" up to 0.75" w.c. furnace pressure, consult factory for higher pressures

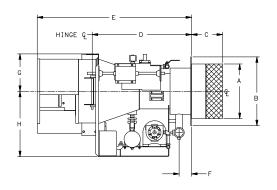
Input is based on fuel BTU content, listed furnace pressure and altitude of 2,000 feet or less. If altitude > 2,000 feet and < 8,000 feet, derate capacity 4% per 1,000 feet over 2,000. Consult factory for higher altitudes. If furnace pressure exceeds listed value, derate capacity 5% for every 0.5" w.c. of pressure in excess of stated. Consult factory if derate exceeds 20%. Gas input is based on natural gas with 1,000 BTU/cu.ft. and 0.60 gravity. For total pressure at manifold, add furnace pressure. Oil input based on 150,000 BTU/gal and the aforementioned conditions. Consult factory for 50 Hz. applications.

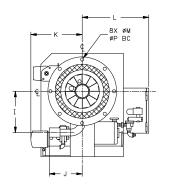
 $^{^{\}rm 2}$ Use model "P" up to 2.0" w.c. furnace pressure, consult facotry for higher pressures

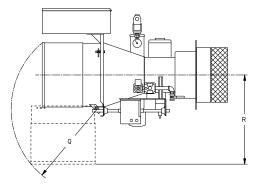
 $^{^{\}rm 3}$ Standard gas pressures only, consult factory for lower gas pressures

Standard DimensionsM Series

ME - MEG: #2-6 Oil, Gas/Oil Configuration







| | | Burner Frame Size | | | | |
|--------------------------------------|-----|-------------------|--------|--------|--------|--|
| | DIM | Size 1 | Size 2 | Size 3 | Size 4 | |
| Length in inches | | | | | | |
| Overall length | E | 40 | 41 3/4 | 44 7/8 | 54 3/4 | |
| Width in inches | | | | | | |
| Center line to right side | К | 15 5/8 | 14 1/2 | 15 | 15 3/4 | |
| Center line to left side | L | 18 | 19 3/4 | 19 3/8 | 24 | |
| Height in inches | | | | | | |
| Center line to top | G | 9 1/4 | 10 | 10 3/4 | 16 1/2 | |
| Center line to bottom | Н | 12 3/8 | 15 1/2 | 19 | 23 | |
| Dry oven dimensions in inches | | | | | | |
| Diameter of dry oven | А | 12 | 13 | 15 7/8 | 19 | |
| Depth of dry oven | С | 6 | 6 | 9 | 10 | |
| Mounting flange dimensions in inches | | | | | | |
| Diameter | В | 15 | 16 | 20 | 23 | |
| Flange to hinge | D | 23 1/2 | 25 3/8 | 28 7/8 | 35 1/8 | |
| Flange to gas inlet | F | 1 7/8 | 1 7/8 | 3 5/8 | 3 3/4 | |
| Bolt hole diameter | M | 1/2 | 1/2 | 15/16 | 15/16 | |
| Bolt circle diameter | Р | 13 3/4 | 14 1/2 | 18 1/2 | 21 | |
| Hinge swing dimensions in inches | | | | | | |
| Hinge swing radius | Q | 23 | 24 | 25 | 33 | |
| Center line to outer hinge clearance | R | 24 1/2 | 25 3/8 | 26 | 34 1/8 | |
| Gas inlet dimensions in inches | | | | | | |
| Mounting flange to gas inlet | F | 1 7/8 | 1 7/8 | 3 5/8 | 3 3/4 | |
| | | | | | | |

Accompanying dimensions, while sufficiently accurate for layout purposes, must be confirmed for construction.



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