



Product Information

Model: KG, KL, KLG

Burner Sizes: 13, 17, 21, 25

GENERAL DESCRIPTION

The K-Series gas, oil, and combination gas/oil burner is a forced draft packaged burner system. A backward curved impeller mounted in a manufactured housing provides combustion air for various furnace pressures or high altitude applications.

KG gas burners burn natural gas under a controlled gas/air pressure mix. Gas is emitted from jets surrounding the air stream, producing a turbulent mixture which burns quietly and efficiently.

KL oil burners incorporate a high pressure atomizing design using simplex nozzles. A directly driven fuel oil pump is burner mounted. Consistent fuel/air ratio is maintained regardless of firing rate.

KLG combination gas/oil burners change from one fuel to the other by simply flipping a switch. No burner modifications or readjustments are required when changing from one fuel to the other.

The K-Series is listed by Underwriters Laboratory. CSD-1, GE Gap, F.M. and other regulatory agency control options are available.

Every burner is assembled, wired and tested at the factory.

U.L. STANDARD EQUIPMENT

A. CONTROLS

1. 120/1/60 control circuit
2. Burner mounted control panel
3. Motor starter(s)
4. Panel signal lights (4) (See Note 4)
5. Low-High-Off firing
6. Fuel changeover switch (combination gas/oil models)
7. Flame safeguard controls (See Note 1)
8. Combustion air proving switch
9. Ignition transformer

B. OIL SYSTEM

1. Two stage fuel unit, directly driven
2. Simplex oil nozzle
3. S.S.O. oil solenoid valves (2)

C. MAIN GAS SYSTEM (See Note 2)

1. Butterfly rate control valves
2. One motorized valve and one solenoid valve
3. Gas shutoff cocks (2)
4. Main gas regulator
5. High and low gas pressure switches (Standard on size 25)

D. GAS PILOT SYSTEM

1. Gas-electric interrupted pilot (KG, KLG)
2. Shutoff cock
3. Separate pilot regulator and valve
4. Direct spark ignition (Requires low oil pressure switch) (KL)

E. OTHER EQUIPMENT

1. 3450 rpm blower motor
2. Burner mounting flange
3. Gas manifold is standard on all oil burners for future gas firing

F. OPTIONAL EQUIPMENT

1. Control circuit transformer
2. Separately driven remote oil pump set
3. Low-High-Low or full modulation
4. Inverted housing arrangement
5. Branch fuse protection
6. Totally enclosed and 50 cycle motors
7. Parallel positioning
8. High and low gas pressure switches (Size 13-21)

NOTES

1. U.V. scanner standard
2. All main gas line valves and accessories upstream of butterfly valve are shipped loose
3. Standard motor voltages are 115/1/60
4. Signal lights: Power On, Main Fuel, Ignition, and Flame Failure

ORDERING INFORMATION (SPECIFY)

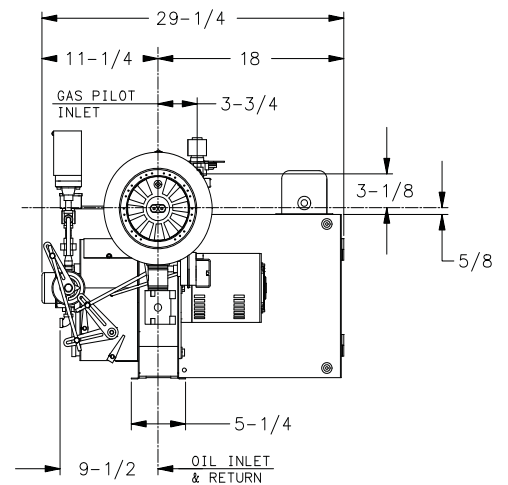
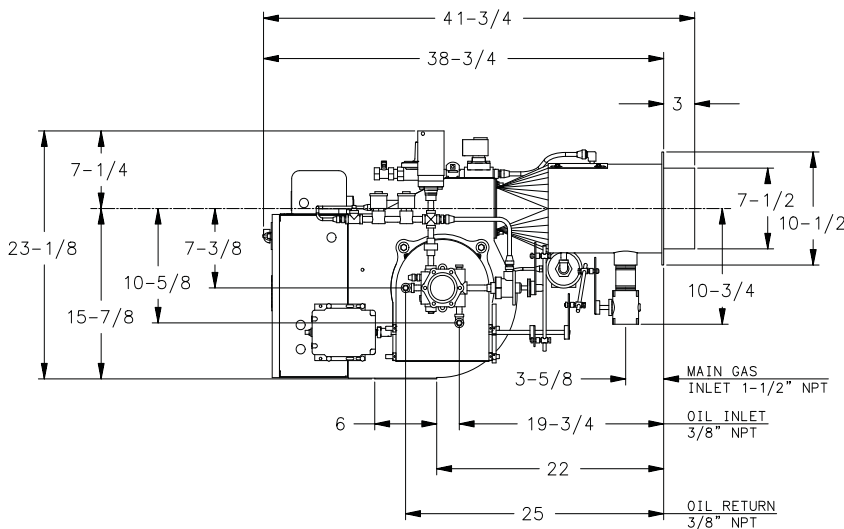
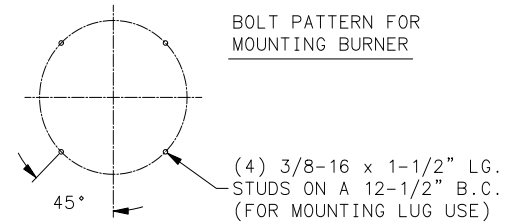
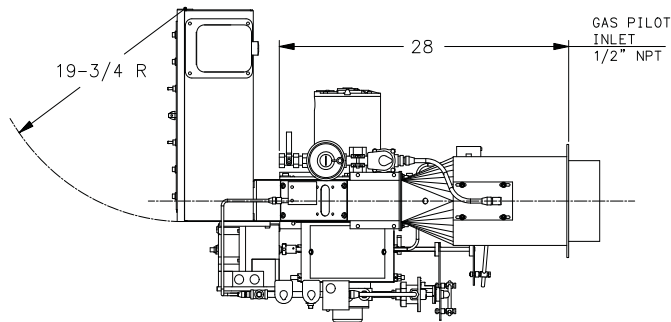
1. Burner voltage, phase and cycle (See Note 3)
2. Control Circuit Voltage (120/1/60)
3. Burner model and actual firing rate
4. Flame Safeguard Control
5. Special Code and/or Insurance Requirements
6. Available Gas Pressure

Type of fuel determines the model designation	
Model	Fuel
KG	Gas
KL	Oil
KLG	No. 2 Oil / Gas

CAPACITIES & SPECIFICATIONS	BURNER SIZE			
	13	17	21	25
GAS INPUT (Mbtu/hr) (See Note 1)	1,250	1,750	2,093	2,510
OIL INPUT (U.S. GPH) (See Note 2)	8.9	12.5	14.9	17.9
BOILER HP @ 80% EFF. (See Note 3)	30	40	50	60
BLOWER MOTOR HP (See Note 5)	1/2	1/2	3/4	3/4
APPROX. SHIPPING WEIGHT (Lbs.)	450	450	450	450

Notes:

1. Gas input based on natural gas at 1,000 Btu/cu.ft. and 0.60 gravity
2. Oil input based on No. 2 oil at 140,000 Btu/gal.
3. Boiler overall efficiency of 80% estimated
4. Gas pressure based on zero furnace pressure. For total pressure at manifold, add furnace pressure.
5. Impeller and motor HP is based on altitude up to 2,000 ft. above sea level. For higher altitude or 50 Hz. applications, consult factory



NOTE:
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DIMENSION DIAGRAM
K-SERIES 13, 17, 21 & 25
SIZE 1
557-0011



Product Information

Model: KG, KL, KLG
 Burner Sizes: 30, 34, 42

GENERAL DESCRIPTION

The K/Series gas, oil, and combination gas/oil burner is a forced draft packaged burner system. A backward curved impeller mounted in a manufactured housing provides combustion air for various furnace pressures or high altitude applications.

KG gas burners burn natural gas under a controlled gas/air pressure mix. Gas is emitted from jets surrounding the air stream, producing a turbulent mixture which burns quietly and efficiently.

KL oil burners incorporate a high pressure atomizing design using simplex nozzles. A directly driven fuel oil pump is burner mounted. Consistent fuel/air ratio is maintained regardless of firing rate.

KLG combination gas/oil burners change from one fuel to the other by simply flipping a switch. No burner modifications or readjustments are required when changing from one fuel to the other.

The K/Series is listed by Underwriters Laboratory. CSD-1, GE Gap, F.M. and other regulatory agency control options are available.

Every burner is assembled, wired and tested at the factory.

U.L. STANDARD EQUIPMENT

A. CONTROLS

1. 120/1/60 control circuit
2. Burner mounted control panel
3. Motor starter(s)
4. Panel signal lights (4) (See Note 4)
5. Low-High-Off firing
6. Fuel changeover switch (combination gas/oil models)
7. Flame safeguard controls (See Note 1)
8. Combustion air proving switch
9. Ignition transformer

B. OIL SYSTEM

1. Two stage fuel unit, directly driven
2. Simplex oil nozzle
3. N.O. Oil valve (Size 34 & 42)
4. S.S.O. oil solenoid valves (2)

C. MAIN GAS SYSTEM (See Note 2)

1. Butterfly rate control valves
2. One motorized valve and one solenoid valve
3. Gas shutoff cocks (2)
4. Main gas regulator
5. High and low gas pressure switches

D. GAS PILOT SYSTEM

1. Gas-electric interrupted pilot (KG, KLG)
2. Shutoff cock
3. Separate pilot regulator and valve
4. Direct spark ignition (Requires low oil pressure switch) (KL)

E. OTHER EQUIPMENT

1. 3450 rpm blower motor
2. Burner mounting flange
3. Gas manifold is standard on all oil burners for future gas firing

F. OPTIONAL EQUIPMENT

1. Control circuit transformer
2. Separately driven remote oil pump set
3. Low-High-Low or full modulation
4. Inverted housing arrangement
5. Totally enclosed and 50 cycle motors
6. Parallel positioning
7. Branch fuse protection

NOTES

1. U.V. scanner standard
2. All main gas line valves and accessories upstream of butterfly valve are shipped loose
3. Standard motor voltages are 115/1/60 (Size 30 & 34)
208-230-460/3/60 (Size 42)
4. Signal lights: Power On, Main Fuel, Ignition, and Flame Failure

ORDERING INFORMATION (SPECIFY)

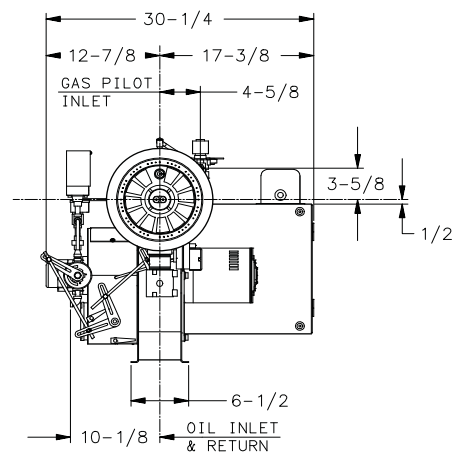
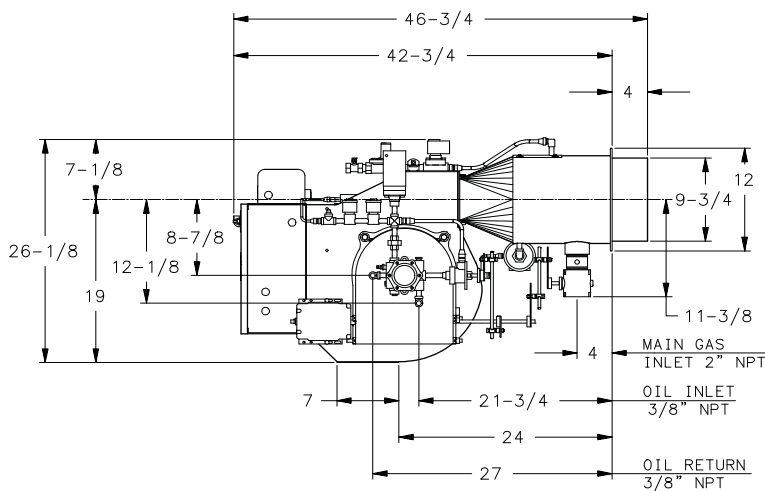
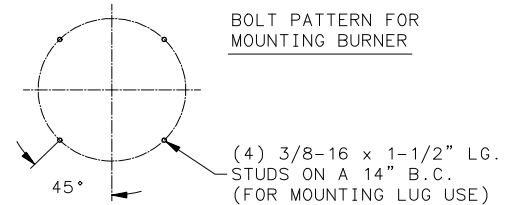
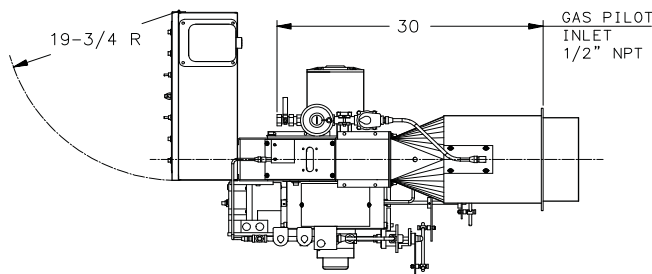
1. Burner voltage, phase and cycle (See Note 3)
2. Control Circuit Voltage (120/1/60)
3. Burner model and actual firing rate
4. Flame Safeguard Control
5. Special Code and/or Insurance Requirements
6. Available Gas Pressure

Type of fuel determines the model designation	
Model	Fuel
KG	Gas
KL	Oil
KLG	No. 2 Oil / Gas

CAPACITIES & SPECIFICATIONS	BURNER SIZE		
	30	34	42
GAS INPUT (Mbtu/hr) (See Note 1)	2,930	3,348	4,185
OIL INPUT (U.S. GPH) (See Note 2)	20.9	23.9	29.9
BOILER HP @ 80% EFF. (See Note 3)	70	80	100
BLOWER MOTOR HP (See Note 5)	1	1	2
APPROX. SHIPPING WEIGHT (Lbs.)	500	600	600

Notes:

1. Gas input based on natural gas at 1,000 Btu/cu.ft. and 0.60 gravity
2. Oil input based on No. 2 oil at 140,000 Btu/gal.
3. Boiler overall efficiency of 80% estimated
4. Gas pressure based on zero furnace pressure. For total pressure at manifold, add furnace pressure.
5. Impeller and motor HP is based on altitude up to 2,000 ft. above sea level. For higher altitude or 50 Hz. applications, consult factory



NOTE:
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DIMENSION DIAGRAM
K-SERIES 30 - 42
SIZE 2
557-0010



Product Information

Model: KG, KL, KLG
 Burner Sizes: 54, 63, 84

GENERAL DESCRIPTION

The K-Series gas, oil, and combination gas/oil burner is a forced draft packaged burner system. A backward curved impeller mounted in a manufactured housing provides combustion air for various furnace pressures or high altitude applications.

KG gas burners burn natural gas under a controlled gas/air pressure mix. Gas is emitted from jets surrounding the air stream, producing a turbulent mixture which burns quietly and efficiently.

KL oil burners incorporate a high pressure atomizing design using simplex nozzles. A separately driven fuel oil pump is burner mounted. Consistent fuel/air ratio is maintained regardless of firing rate.

KLG combination gas/oil burners change from one fuel to the other by simply flipping a switch. No burner modifications or readjustments are required when changing from one fuel to the other.

The K-Series is listed by Underwriters Laboratory. CSD-1, GE Gap, F.M. and other regulatory agency control options are available.

Every burner is assembled, wired and tested at the factory.

U.L. STANDARD EQUIPMENT

A. CONTROLS

1. 120/1/60 control circuit
2. Burner mounted control panel
3. Motor starter(s)
4. Panel signal lights (4) (See Note 4)
5. Full modulation
6. Fuel changeover switch (combination gas/oil models)
7. Flame safeguard controls (See Note 1)
8. Combustion air proving switch
9. Ignition transformer

B. OIL SYSTEM

1. Separately driven fuel unit
2. Simplex oil nozzle
3. S.S.O. oil solenoid valves (2)
4. Oil metering valve
5. Low oil pressure switch

C. MAIN GAS SYSTEM (See Note 2)

1. Butterfly rate control valves
2. One motorized valve with proof of closure and one solenoid valve
3. Gas shutoff cocks (2)
4. Main gas regulator
5. High and low gas pressure switches

D. GAS PILOT SYSTEM

1. Gas-electric interrupted pilot (KG, KL, KLG)
2. Shutoff cock
3. Separate pilot regulator and valve

E. OTHER EQUIPMENT

1. 3450 rpm blower motor
2. Burner mounting flange
3. Gas manifold is standard on all oil burners for future gas firing

F. OPTIONAL EQUIPMENT

1. Control circuit transformer
2. Inverted housing arrangement
3. Totally enclosed and 50 cycle motors
4. Branch fuse protection

NOTES

1. U.V. scanner standard
2. All main gas line valves and accessories upstream of butterfly valve are shipped loose
3. Standard motor voltages are 208-230-460/3/60
4. Signal lights: Power On, Main Fuel, Ignition, and Flame Failure

ORDERING INFORMATION (SPECIFY)

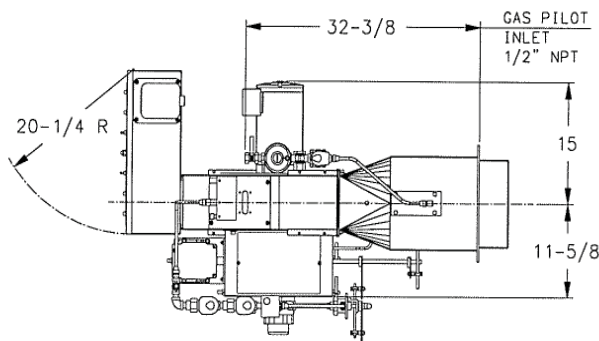
1. Burner voltage, phase and cycle (See Note 3)
2. Control Circuit Voltage (120/1/60)
3. Burner model and actual firing rate
4. Flame Safeguard Control
5. Special Code and/or Insurance Requirements
6. Available Gas Pressure

Type of fuel determines the model designation	
Model	Fuel
KG	Gas
KL	Oil
KLG	No. 2 Oil / Gas

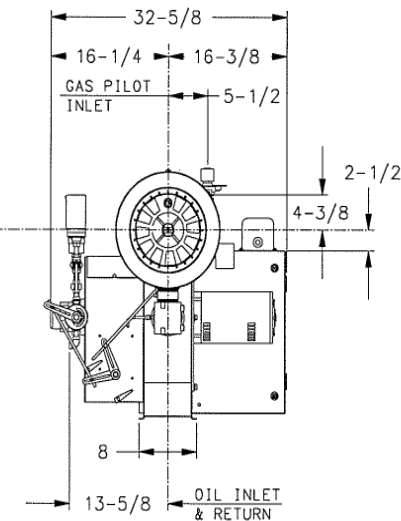
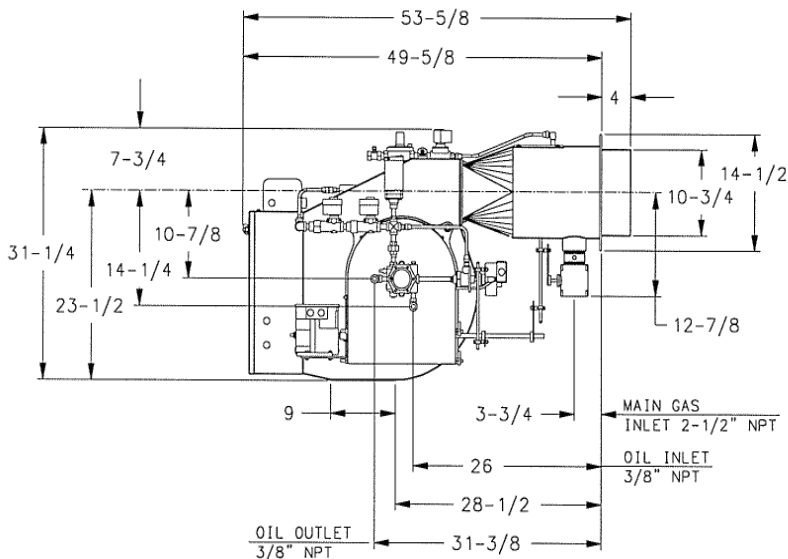
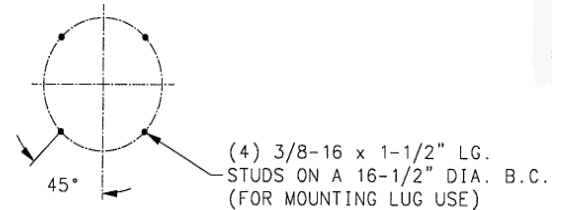
CAPACITIES & SPECIFICATIONS	BURNER SIZE		
	54	63	84
GAS INPUT (Mbtu/hr) (See Note 1)	5,231	6,278	8,370
OIL INPUT (U.S. GPH) (See Note 2)	37.4	44.8	59.8
BOILER HP @ 80% EFF. (See Note 3)	125	150	200
BLOWER MOTOR HP (See Note 5)	2	3	5
APPROX. SHIPPING WEIGHT (Lbs.)	700	700	1,100

Notes:

1. Gas input based on natural gas at 1,000 Btu/cu.ft. and 0.60 gravity
2. Oil input based on No. 2 oil at 140,000 Btu/gal.
3. Boiler overall efficiency of 80% estimated
4. Gas pressure based on zero furnace pressure. For total pressure at manifold, add furnace pressure.
5. Impeller and motor HP is based on altitude up to 2,000 ft. above sea level. For higher altitude or 50 Hz. applications, consult factory



BOLT PATTERN FOR MOUNTING BURNER



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DIMENSION DIAGRAM
K-SERIES 54-84
SIZE 3
557-0008



Product Information

Model: KG, KL, KLG
 Burner Sizes: 105, 125, 145

GENERAL DESCRIPTION

The K/Series gas, oil, and combination gas/oil burner is a forced draft packaged burner system. A backward curved impeller mounted in a manufactured housing provides combustion air for various furnace pressures or high altitude applications.

KG gas burners burn natural gas under a controlled gas/air pressure mix. Gas is emitted from jets surrounding the air stream, producing a turbulent mixture which burns quietly and efficiently.

KL oil burners incorporate a high pressure atomizing design using return flow nozzles. A separately driven fuel oil pump is burner mounted. Consistent fuel/air ratio is maintained regardless of firing rate.

KLG combination gas/oil burners change from one fuel to the other by simply flipping a switch. No burner modifications or readjustments are required when changing from one fuel to the other.

The K/Series is listed by Underwriters Laboratory. CSD-1, GE Gap, F.M. and other regulatory agency control options are available.

Every burner is assembled, wired and tested at the factory.

U.L. STANDARD EQUIPMENT

A. CONTROLS

1. 120/1/60 control circuit
2. Burner mounted control panel
3. Motor starter(s)
4. Panel signal lights (4) (See Note 4)
5. Full modulation
6. Fuel changeover switch (combination gas/oil models)
7. Flame safeguard controls (See Note 1)
8. Combustion air proving switch
9. Ignition transformer

B. OIL SYSTEM

1. Separately driven fuel unit
2. Return flow oil nozzle
4. S.S.O. oil solenoid valves (2)
5. Oil metering valve
6. Low oil pressure switch
7. Air atomized

C. MAIN GAS SYSTEM (See Note 2)

1. Butterfly rate control valves
2. One motorized valve with proof of closure and one solenoid valve
3. Gas shutoff cocks (2)
4. Main gas regulator
5. High and low gas pressure switches

D. GAS PILOT SYSTEM

1. Gas-electric interrupted pilot (KG, KL, KLG)
2. Shutoff cock
3. Separate pilot regulator and valve

E. OTHER EQUIPMENT

1. 3450 rpm blower motor
2. Burner mounting flange
3. Gas manifold is standard on all oil burners for future gas firing

F. OPTIONAL EQUIPMENT

1. Control circuit transformer
2. Inverted housing arrangement
3. Branch fuse protection
4. Totally enclosed and 50 cycle motors
5. Parallel Positioning

NOTES

1. U.V. scanner standard
2. All main gas line valves and accessories upstream of butterfly valve are shipped loose
3. Standard motor voltages are 208-230-460/3/60
4. Signal lights: Power On, Main Fuel, Ignition, and Flame Failure

ORDERING INFORMATION (SPECIFY)

1. Burner voltage, phase and cycle (See Note 3)
2. Control Circuit Voltage (120/1/60)
3. Burner model and actual firing rate
4. Flame Safeguard Control
5. Special Code and/or Insurance Requirements
6. Available Gas Pressure

Type of fuel determines the model designation	
Model	Fuel
KG	Gas
KL	Oil
KLG	No. 2 Oil / Gas

