

The K/Series straight gas 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. The KG gas burners burn 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.

The K/Series is listed by Underwriters Laboratory. CSD-1, Gap, F.M., NFPA-85 and other regulatory agency control options are available. Every burner is assembled, wired and tested at the factory.

STANDARD EQUIPMENT

- ▶ 3450 RPM Blower Motor
- ▶ Panel Signal Lights: Power On, Main Fuel, Ignition, and Flame Failure
- ▶ Combustion Air Proving Switch
- ▶ Ignition Transformer
- ▶ 120/1/60 Control Circuit
- ▶ Safety Shutoff Valve(s) with 2 Gas Shutoff Cocks
- ▶ Gas-Electric Interrupted Pilot



OPTIONAL FEATURES

S = STANDARD
O = OPTIONAL
N/A = NOT AVAILABLE

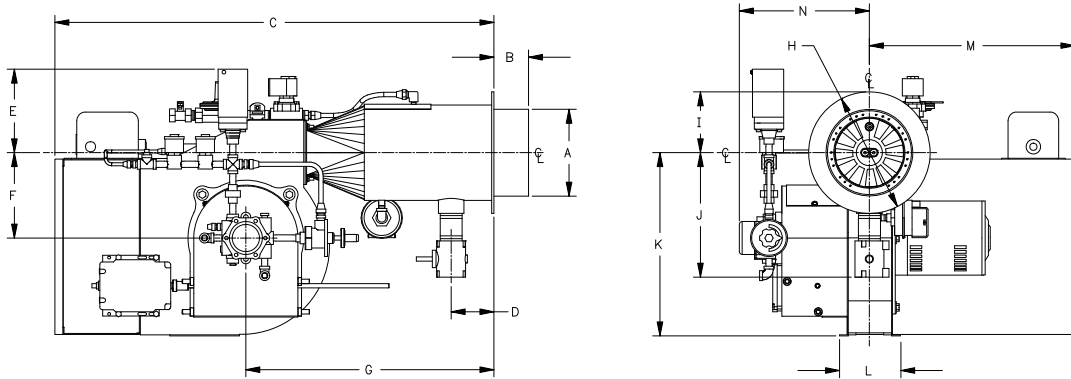
	KG-13	KG-17	KG-21	KG-25	KG-30	KG-34	KG-42	KG-54	KG-63	KG-84	KG-105	KG-125	KG-145
Flame Safeguard with U.V. Scanner	S	S	S	S	S	S	S	S	S	S	S	S	S
Low-High-Off Firing	S	S	S	S	S	S	S	N/A	N/A	N/A	N/A	N/A	N/A
Low-High-Low Firing	O	O	O	O	O	O	O	N/A	N/A	N/A	N/A	N/A	N/A
Full Modulation Firing	O	O	O	O	O	O	O	S	S	S	S	S	S
Butterfly Rate Control Valve	S	S	S	S	S	S	S	S	S	S	S	S	S
High & Low Gas Pressure Interlocks	O	S	S	S	S	S	S	S	S	S	S	S	S

SPECIFICATIONS & DIMENSIONS

BURNER MODEL	FRAME SIZE	GAS INPUT (MBH)	FURN. PRESS. ("W.C.)	BHP @ 80% EFF.	BLOWER MOTOR HP	BLOWER MOTOR VOLT/ PH 60 HZ.	GAS PRESSURE REQUIRED ("W.C.)
KG-13	1	1,250	0.75	30	1/2	115/1	3.9
KG-17	1	1,750	0.75	40	1/2	115/1	6.6
KG-21	1	2,093	0.75	50	3/4	115/1	10.1
KG-25	1	2,510	0.75	60	3/4	115/1	14.3
KG-30	2	2,930	1.5	70	3/4	115/1	13.1
KG-34	2	3,348	1.5	80	1	115/1	16.9
KG-42	2	4,185	1.5	100	2	208/230/460/3	12.9
KG-54	3	5,231	3.0	125	2	208/230/460/3	12.5
KG-63	3	6,278	3.0	150	3	208/230/460/3	17.1
KG-84	3	8,370	3.0	200	7 1/2	208/230/460/3	19.1
KG-105	4	10,460	4.0	250	5	208/230/460/3	19.8
KG-125	4	12,560	4.0	300	7 1/2	208/230/460/3	31.6
KG-145	4	14,650	4.0	350	10	208/230/460/3	42.2

NOTES:

1. Gas input based on natural gas at 1,000 Btu/cu.ft. and 0.60 gravity.
2. Gas pressure based on zero furnace pressure. For total pressure at manifold, add furnace pressure.
3. Oil input based on No. 2 oil at 140,000 Btu/gal.
4. Boiler overall efficiency of 80% estimated.
5. Blower wheel and motor HP is based on altitude up to 2,000 ft. above sea level. For higher altitude or 50 Hz. applications, consult factory.
6. Firing at higher furnace pressures de-rates the burner by approximately 5% per 1/2" of additional pressure, consult factory.



STANDARD CONFIGURATION

BURNER MODEL	A	B Std.	C	D	E	F	G	H	I	J	K	L	M	N
KG-13	7 1/2	3	37 7/8	3 5/8	7 1/4	7 3/8	21 3/8	10 1/2	5 1/4	10 3/4	15 7/8	5 1/4	18	11 1/4
KG-17	7 1/2	3	37 7/8	3 5/8	7 1/4	7 3/8	21 3/8	10 1/2	5 1/4	10 3/4	15 7/8	5 1/4	18	11 1/4
KG-21	7 1/2	3	37 7/8	3 5/8	7 1/4	7 3/8	21 3/8	10 1/2	5 1/4	10 3/4	15 7/8	5 1/4	18	11 1/4
KG-25	7 1/2	3	37 7/8	3 5/8	7 1/4	7 3/8	21 3/8	10 1/2	5 1/4	10 3/4	15 7/8	5 1/4	18	11 1/4
KG-30	9 1/4	4	41 7/8	4	7 1/8	8 7/8	23 3/8	12	6	11 3/8	19	6 1/2	17 3/8	12 7/8
KG-34	9 1/4	4	41 7/8	4	7 1/8	8 7/8	23 3/8	12	6	11 3/8	19	6 1/2	17 3/8	12 7/8
KG-42	9 1/4	4	41 7/8	4	7 1/8	8 7/8	23 3/8	12	6	11 3/8	19	6 1/2	17 3/8	12 7/8
KG-54	10 3/4	4	48 3/4	3 3/4	7 3/4	10 7/8	27 5/8	14 1/2	7 1/4	12 7/8	23 1/2	8	16 3/8	16 1/4
KG-63	10 3/4	4	48 3/4	3 3/4	7 3/4	10 7/8	27 5/8	14 1/2	7 1/4	12 7/8	23 1/2	8	16 3/8	16 1/4
KG-84	10 3/4	4	48 3/4	3 3/4	7 3/4	10 7/8	27 5/8	14 1/2	7 1/4	12 7/8	23 1/2	8	16 3/8	16 1/4
KG-105	12 1/8	5	56 3/8	3 7/8	8 3/4	12 1/2	32 7/8	17 1/2	8 3/4	15	27 1/8	10	17 3/8	20
KG-125	12 1/8	5	56 3/8	3 7/8	8 3/4	12 1/2	32 7/8	17 1/2	8 3/4	15	27 1/8	10	17 3/8	20
KG-145	12 1/8	5	56 3/8	3 7/8	8 3/4	12 1/2	32 7/8	17 1/2	8 3/4	15	27 1/8	10	17 3/8	20