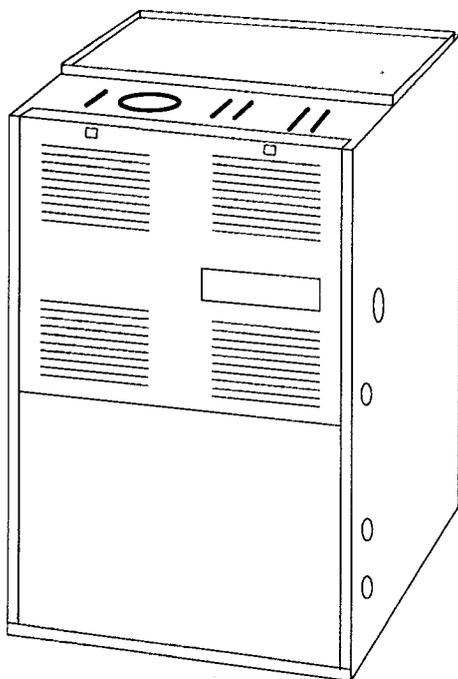


Luxaire®



**GAS-FIRED FURNACES
HIGH EFFICIENCY
MULTI-POSITION
(UPFLOW/HORIZONTAL)
INDUCED COMBUSTION
40-140 MBH INPUT**



MODELS PBKM



DESCRIPTION

These high efficiency, compact units employ induced combustion, reliable hot surface ignition and high heat transfer tubular heat exchangers. The units are factory shipped for upflow installation and may also be used in horizontal applications.

These furnaces are designed for residential installation in a basement, closet, alcove attic, recreation room or garage and are ideal for commercial applications. All units are factory assembled, wired and tested to assure safe dependable and economical installation and operation.

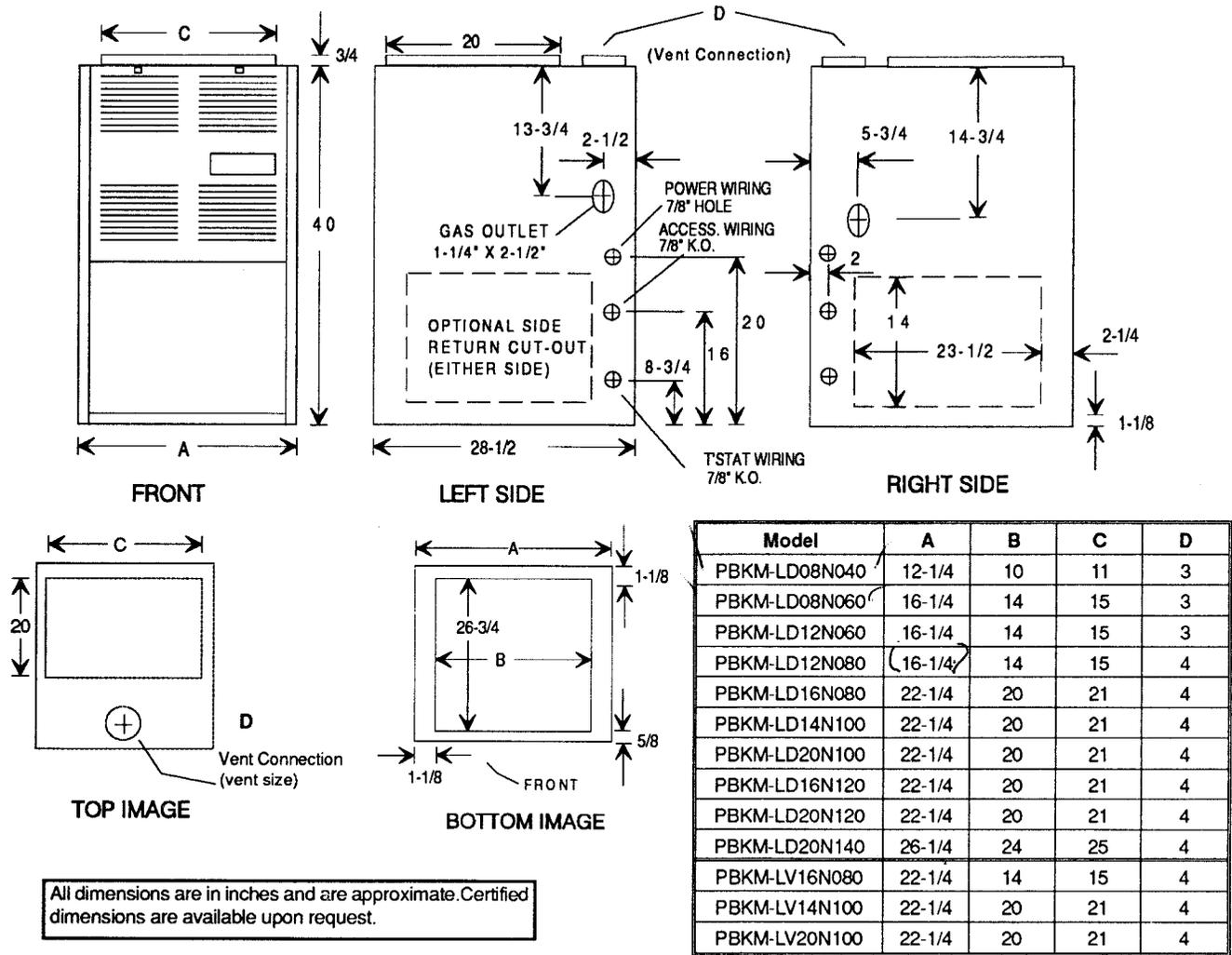
These units are Category I listed and may be common vented with another gas appliance as allowed by the National Fuel Gas Code. Each furnace in this series is a Category III furnace when vented horizontally using special high temperature plastic pipe as specified in Application Data (Form 650.69-AD2V - "Venting Guide for High Temperature Plastic Pipe").

FEATURES

- Easily applied in upflow, horizontal left, horizontal right installations with no conversion necessary
- Electronic hot surface ignition with high reliability and dependability
- 100% shut off main gas valve for added safety
- Rollout safety control
- Low unit amp requirement for easy application
- Ball bearing inducer motor for quiet operation
- Built-in self diagnostics with fault code display.
- Integrated control module for simplicity and reliable, economical operation
- Standard terminals for controlling humidifiers and EAC's
- 40 VA control transformer
- Easy to connect power and control wiring
- Efficiency ratings of 80 AFUE attained by using tubular heat exchangers
- Cooling relay supplied for easy installation of add-on cooling
- Multi-speed PSC, direct-drive blower motors ("D" models) to match cooling requirements
- 3 variable speed blower models which provide constant CFM at varying static pressure
- Adjustable fan-off settings to eliminate "cold-blow"
- Compact 40-in height allows installation in small space confines
- 20 year warranty offered on heat exchanger and 5 years for parts
- All models are propane convertible
- Attractive baked enamel finish for durability

FOR DISTRIBUTION USE ONLY - NOT TO BE USED AT POINT OF RETAIL SALE

DIMENSIONS



RATINGS & PHYSICAL/ELECTRICAL DATA

MODEL NUMBER	HEAT. CAP. INPUT MBH	SS OUTPUT MBH	AFUE ¹ I.C.S.	AIR TEMP RISE °F	CFM @ .5 ESP	MAX. OUTLET AIR TEMP °F	BLOWER			MAX. OVER CURRENT PROTECT.	TOTAL UNIT AMPS	MIN. WIRE (AWG) @ 75'
							DIA.	WIDTH	HP			
PBKM-LD08N040	40	32	80	10-40	877	180	9	6	1/4	15	12	14
PBKM-LD08N060	60	48	80	35-65	827	180	10	7	1/6	15	12	14
PBKM-LD12N060	60	48	80	25-55	1270	180	10	7	1/2	15	12	14
PBKM-LD12N080	80	64	80	25-55	1284	180	10	7	1/2	15	12	14
PBKM-LD16N080	80	64	80	20-50	1596	180	10	10	1/2	15	12	14
PBKM-LD14N100	100	80	80	30-60	1494	180	10	9	1/2	15	12	14
PBKM-LD20N100	100	80	80	30-60	2107	180	11	10	3/4	15	13.8	14
PBKM-LD16N120	120	96	80	30-60	1731	180	10	9	3/4	15	13.0	14
PBKM-LD20N120	120	96	80	25-55	2197	180	11	10	3/4	15	13.8	14
PBKM-LD20N140	140	112	80	35-65	1954	180	11	10	3/4	15	13.8	14
PBKM-LV16N080	80	64	80	25-55	1285	180	10	7	1/2	15	12	14
PBKM-LV14N100	100	80	80	30-60	1500	180	10	9	1/2	15	12	14
PBKM-LV20N100	100	80	80	30-60	2100	180	11	10	1	15	12	14

¹ AFUE numbers are determined in accordance with DOE test procedures for isolated combustion air.

- NOTES:
- For altitudes above 2,000 ft., reduce capacity 4% for each 1,000 ft. above sea level.
 - Wire size based on copper conductors, 60°C, 3% voltage drop.
 - Continuous return air temperature should not be below 55°F.

FILTER SIZE/ADD-ON COOLING

MODEL NUMBER	FILTER SIZE		ADD-ON COOLING		APPROX. OPER. WEIGHT
	SIDE	BOTTOM	TONS	CFM @ .5 ESP ¹	
PBKM-LD08N040	16 x 25	12 x 25	1, 1-1/2, 2	870	85
PBKM-LD08N060	16 x 25	16 x 25	1, 1-1/2, 2	827	98
PBKM-LD12N060	16 x 25	16 x 25	2, 2-1/2, 3	1270	102
PBKM-LD12N080	16 x 25	16 x 25	2, 2-1/2, 3	1280	115
PBKM-LD16N080	16 x 25	20 x 25	3, 3-1/2, 4	1595	119
PBKM-LD14N100	16 x 25	20 x 25	2-1/2, 3, 3-1/2	1490	130
PBKM-LD20N100	16 x 25	20 x 25	4, 5	2100	135
PBKM-LD16N120	16 x 25	24 x 25	3, 3-1/2, 4	1725	146
PBKM-LD20N120	16 x 25	16 x 25	3-1/2, 4, 5	2270	151
PBKM-LD20N140	16 x 25	25 x 25	3-1/2, 4, 5	1960	163
PBKM-LV16N080	16 x 25	16 x 25	3, 3-1/2, 4	1285	119
PBKM-LV14N100	16 x 25	20 x 25	2-1/2, 3, 3-1/2	1500	135
PBKM-LV20N100	16 x 25	20 x 25	4, 5	2100	140

¹ ESP (External Static Pressure) .5" W.C. is at furnace outlet ahead of cooling coil.

NOTES: ● Filters may be provided as an accessory or field supplied. High velocity type must be used.
● Air flows above 1800 CFM require either return from two sides or one side plus bottom.

ACCESSORIES

PROPANE CONVERSION KIT – 1NP0347

This accessory conversion kit may be used to convert natural gas units for propane (LP) operation. Conversion should be made by qualified distributor or dealer personnel.

HIGH ALTITUDE PROPANE CONVERSION KITS –

These accessory conversion kits may be used to convert natural gas units for high altitude propane (LP) operation. Conversion should be made by qualified distributor or dealer personnel.

KIT	APPLICATION	MODELS
1NP0356	2000 - 5500 FT	40 MBH
1NP0357		60, 80, 100, 140 MBH
1NP0358		120 MBH
1NP0359	5500 - 10,000 FT.	40 MBH
1NP0360		60, 80, 100, 140 MBH
1NP0361		120 MBH

HIGH ALTITUDE NATURAL GAS CONVERSION KITS –

These accessory conversion kits may be used to convert natural gas units for high altitude operation. Conversion should be made by qualified distributor or dealer personnel.

KIT	APPLICATION	MODELS
1HA0313	2000 - 5500 FT	40 MBH
1HA0314		60, 80, 100, 140 MBH
1HA0315		120 MBH
1HA0316	5500 - 10,000 FT.	40 MBH
1HA0317		60, 80, 100, 140 MBH
1HA0318		120 MBH

SIDE RETURN FILTER RACK - 1FF0328

Required with all side return applications. Allows installation of supplied filters external to the furnace cabinet. Package contains six filter racks.

INSIDE MOUNT BOTTOM RETURN FILTERS

Use the following for bottom return applications:(required with platform mounted bottom return air applications)

- 1BF0301 = For 12" cabinet models
- 1BF0302 = For 16" cabinet models
- 1BF0303 = For 22" cabinet models
- 1BF0304 = For 26" cabinet models

HORIZONTAL FILTER RACK

Required with all horizontal applications. Includes high velocity filter.

1HF0301 = For 12" cabinet models

1HF0302 = For 16" cabinet models

1HF0303 = For 22" cabinet models

1HF0304 = For 26" cabinet models

FIELD WIRING DIAGRAM

