

Product Data

95% AFUE Single Stage Furnace Upflow/Horizontal

FLEXIBILITY

- Dual certified venting (1 or 2 pipes) Direct Vent furnace
- 40" high with wider cabinets, for ease of installation
- Factory shipped for natural gas, with Propane
- Gas conversion kits available
- Upflow/horizontal installation
- Vent pipe can be run horizontally or vertically
- Internal condensate drain system

SERVICE

- Self diagnostics
- Entire blower assembly mounted on rails

COMFORT

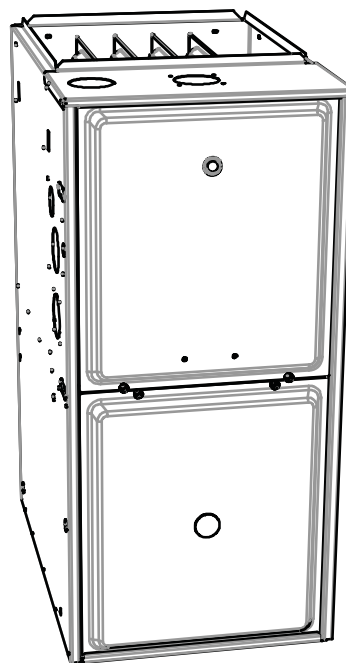
- Adjustable timed blower Off delay
- Thermal lined, one piece steel cabinet for noise reduction
- 24 and 115 VAC humidifier terminal
- Electronic air cleaner terminal
- Insulated blower compartment

EFFICIENCY

- 95% AFUE, upflow
- Up to 95% AFUE, horizontal
- Single stage gas valve operation
- Single stage integrated control
- Multispeed, prelubricated PSC blower motors
- Induced draft blower
- In-shot burners
- California NOx approved

QUALITY

- Stainless steel primary heat exchanger
- Stainless steel secondary heat exchanger
- High temperature limit control prevents overheating
- Dependable hot surface ignition with Silicon Nitride igniter
- Flame roll-out sensors standard



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WARNING

APPLICATION HAZARD

Failure to follow this warning could result in personal injury or death

This furnace is not designed for use in mobile homes, trailers, or recreational vehicles.



As an ENERGY STAR® Partner, we have determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

UPFLOW/HORIZONTAL (NATURAL GAS)						
Model Number	Heat Exchangers *	Dimensions H x W x D (In. / MM)	Input (MBTUH)	AFUE		Cooling Capacity @ .5 in wc
				Upflow	Horizontal	
PG9YAA036060	20 Year	40 x 19 ¹ / ₈ x 29 1016 x 486.8 x 736.6	60	95.0	94.4	2.0 - 3.0 TON
PG9YAA036080	20 Year	40 x 22 ³ / ₄ x 29 1016 x 577.9 x 736.6	80	95.0	94.4	3.0 TON
PG9YAA048080	20 Year	40 x 22 ³ / ₄ x 29 1016 x 572.9 x 736.6	80	95.0	95.0	3.0 - 4.0 TON
PG9YAA060100	20 Year	40 x 24 ¹ / ₂ x 29 1016 x 622.3 x 736.6	100	95.0	94.4	3.5 - 5.0 TON

FURNACE SPECIFICATIONS

Model Number	NATURAL GAS	PG9YAA036060	PG9YAA036080	PG9YAA048080	PG9YAA060100
INPUT (btuh)		60,000	80,000	80,000	100,000
HTG. CAP. (btuh)		58,000	77,000	77,000	96,000
UPFLOW AFUE % (ICS)		95.0	95.0	95.0	95.0
HORIZONTAL AFUE % (ICS)		94.4	94.4	95.0	94.4
NOx (Ng/J)		<40	<40	<40	<40
TEMP. RISE DEGREES (°F/°C)		30-60/17-33	35-65/19-46	30-60/17-33	30-60/17-33
VOLTS/HZ/PH		115/1/60	115/1/60	115/1/60	115/1/60
MIN./MAX. VOLTAGE		104/127	104/127	104/127	104/127
RATING PLATE AMPS.		10	10.5	13.6	14.8
TRANSFORMER (V.A.)		40	40	40	40
GAS PIPE SIZE (IN.)		1/2	1/2	1/2	1/2
VENT SIZE^		2" or 3" OD	3" OD	3" OD	3" OD
COOLING CAP.		3.0	3.0	4.0	5.0
FILTER SIZE (IN / MM) (1 required)		16X25X1 406.4 x 635.0 x 25.4	16X25X1 406.4 x 635.0 x 25.4	16X25X1(2) 406.4 x 635.0 x 25.4	16X25X1(2) 406.4 x 635.0 x 25.4
DIMENSIONS (IN / MM) HEIGHT		40 / 1016.0	40 / 1016.0	40 / 1016.0	40 / 1016.0
WIDTH X DEPTH (IN / MM)		19 ¹ / ₈ x 29 486.8 x 736.6	22 ³ / ₄ x 29 572.9 x 736.6	22 ³ / ₄ x 29 572.9 x 736.6	24 ¹ / ₂ x 29 622.3 x 736.6
WEIGHT (Lbs.)		153	172	180	193

^ Vent size may vary depending on length, number of elbows, standard vent or direct vent. See Installation Instructions.

PART NUMBER NOMENCLATURE

Brand Identifier PG	9	Y	A	A	O	36	080	#
G = Gas Furnace Model Efficiency 8 = Non-Condensing, 80+% Gas Furnace 9 = Condensing, 90+% Gas Furnace								Engineering Rev. Denotes minor change
Installation Configuration Y = Upflow/Horizontal Electric A = 110V, 60Hz, Single Stage								Input (Nominal MBtuh) 050 = 50,000 075 = 75,000 100 = 100,000 125 = 125,000 Cooling Airflow 36 = 1200 CFM 48 = 1600 CFM 60 = 2000 CFM
								Major Design Feature O = PSC Motor V = Variable Speed Major Series

ACCESSORIES

Model Number	Description	Used With Models
KGANP45011HW	Gas Conversion Kits - Natural gas to LP (propane) conversion Kit. Allows field conversion to LP (propane) gas.	PG9YAA
KGAPN38011HW	Gas Conversion Kits - LP (Propane) to natural gas conversion kit. Allows field conversion to natural gas.	PG9YAA
KGAFR0901P16	Filter Kits - External filter frame. 16" x 25"	Side Return (All Furnaces) Bottom Return (All 19 ¹ / ₈ " Furnaces under 1600 CFM)
KGAFR1001P20	Filter Kits - Bottom return filter frame kit 20" x 25"	(All 22 ³ / ₄ " Furnaces)
P908-0001 ⁺	Condensate neutralizer kit - for condensing gas furnaces	All *PG9YAA Furnaces If Required
KGAVT0801CVT	3" Concentric vent kit - allows single wall penetration for 2 pipe direct vent applications (90+).	PG9Y*060 (65' & (4) 90°elbows) PG9Y*080 (35' & (4) 90°elbows) PG9Y*100 (35' & (4) 90°elbows)
KGAVT0701CVT	2" Concentric vent kit - allows single wall penetration for 2 pipe direct vent applications (90+).	PG9Y*060 (35' & (4) 90°elbows) PG9Y*080 (35' & (4) 90°elbows) PG9Y*100 (25' & (4) 90°elbows)
HK06NA007 ⁺	High Altitude Pressure Switch Kit (1 Pressure Switch)	PG9YAA036060
HK06NA012 ⁺	High Altitude Pressure Switch Kit (2 Pressure Switches)	PG9YAA036080 & PG9YAA048080
HK06NA017 ⁺	High Altitude Pressure Switch Kit (2 Pressure Switches)	PG9YAA060100
LIK335909-001	Upper Door Replacement Kit	PG9YAA

⁺ Must be ordered from Service Parts

MAX CFM's for Factory Washable Filters	
Filter Size (in. / mm)	CFM
14" X 25" (356 x 635)	1400
16" X 25" (406 x 635)	1600
20" X 25" (508 x 635)	2000
24" X 25" (610 x 635)	2500
Max CFM based on 600 FPM	

CFM – Cubic Feet per Minute airflow.

Filter required for each return—air inlet. Airflow performance includes 1" washable (600 FPM max) filter media.

Disposable filters are typically rated at 300 FPM and only allow half of the airflow when compared to 600 FPM filters.

Example: 20 x 25 @ 600 FPM = 2000 CFM, @ 300 FPM = 1000 CFM.

BLOWER PERFORMANCE

Model Number	NATURAL GAS	PG9YAA036060 (1)(2)	PG9YAA036080 (1)(2)	PG9YAA048080 (1)(2)	PG9YAA060100 (1)(2)
BLOWER SIZE INCHES (DIA. x WIDTH)		11-10	11-10	11-10	11-10
MOTOR H.P. (TYPE)		PSC / ¹ / ₂	PSC / ¹ / ₃	PSC / ¹ / ₂	PSC / ³ / ₄
MOTOR SPEEDS		4	4	4	4

AIRFLOW DATA (CFM)

.10 ESP in wc	LOW	703	976	922	1820
	MEDIUM LOW	901	1123	1246	1993
	MEDIUM HIGH	1204	1326	1690	2137
	HIGH	1478	1456	2032	2240
.20 ESP in wc	LOW	649	941	898	1768
	MEDIUM LOW	864	1112	1250	1934
	MEDIUM HIGH	1154	1312	1650	2062
	HIGH	1418	1440	1952	2163
.30 ESP in wc	LOW	588	909	872	1722
	MEDIUM LOW	818	1085	1226	1872
	MEDIUM HIGH	1103	1280	1601	1992
	HIGH	1350	1420	1874	2083
.40 ESP in wc	LOW	538	870	838	1656
	MEDIUM LOW	765	1043	1187	1801
	MEDIUM HIGH	1053	1241	1533	1916
	HIGH	1280	1379	1785	2002
.50 ESP in wc	LOW	488	818	806	1590
	MEDIUM LOW	720	1002	1151	1723
	MEDIUM HIGH	993	1209	1462	1833
	HIGH	1201	1325	1688	1912
.60 ESP in wc	LOW	459	784	769	1513
	MEDIUM LOW	672	952	1090	1636
	MEDIUM HIGH	924	1155	1381	1745
	HIGH	1116	1261	1593	1821
.70 ESP in wc	LOW	408	714	711	1426
	MEDIUM LOW	620	893	1014	1547
	MEDIUM HIGH	846	1082	1287	1654
	HIGH	1023	1208	1482	1727
.80 ESP in wc	LOW	365	640	643	1325
	MEDIUM LOW	558	792	918	1437
	MEDIUM HIGH	764	1001	1182	1551
	HIGH	931	1115	1360	1618
.90 ESP in wc	LOW	317	567	570	1199
	MEDIUM LOW	489	702	790	1315
	MEDIUM HIGH	683	868	1053	1430
	HIGH	825	1007	1231	1502
1.00 ESP in wc	LOW	233	491	488	1047
	MEDIUM LOW	428	608	678	1159
	MEDIUM HIGH	590	746	850	1275
	HIGH	730	830	1052	1356

NOTE: (1) Data based on Bottom Only or One Side return.

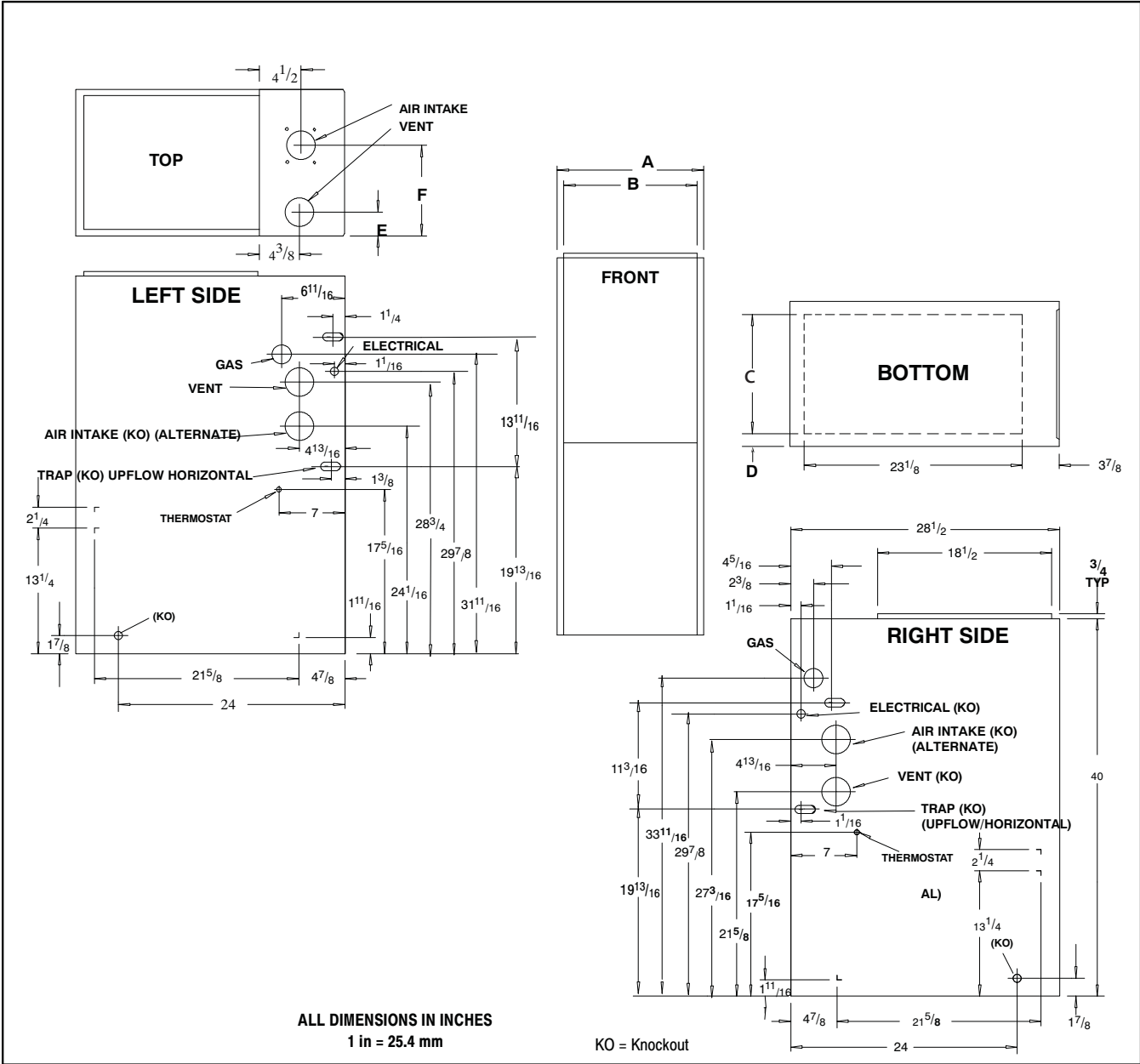
NOTE: (2) Gray area is above maximum temperature rise range.

PG9YAA

DIMENSIONS

Cabinet to Combustible Clearances						
TOP	BOT.	RH	LH	BACK	FRNT	FLUE
1"	0"	0"	0"	0"	3"	0"

Unit Capacity	Cabinet		Bottom		Top	
	A	B	C	D	E	F
PG9YAA036060	19 ¹ / ₈	17 ⁵ / ₈	14 ³ / ₄	2 ¹ / ₈	2 ¹ / ₂	9 ¹ / ₂
PG9YAA036080	22 ³ / ₄	21 ¹ / ₄	18 ³ / ₄	1 ¹⁵ / ₁₆	2 ⁵ / ₈	11 ³ / ₈
PG9YAA048080	22 ³ / ₄	21 ¹ / ₄	18 ³ / ₄	1 ¹⁵ / ₁₆	2 ⁵ / ₈	11 ³ / ₈
PG9YAA060100	24 ¹ / ₂	23	23	7 ⁷ / ₁₆	2 ¹ / ₄	12 ¹ / ₄



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