KG7TC Series

Smartlite®

Two Stage, Fixed Speed ECM, Condensing Upflow/Horizontal Gas Furnaces

Induced Draft - 95 AFUE
Input 60,000 - 120,000 Btuh

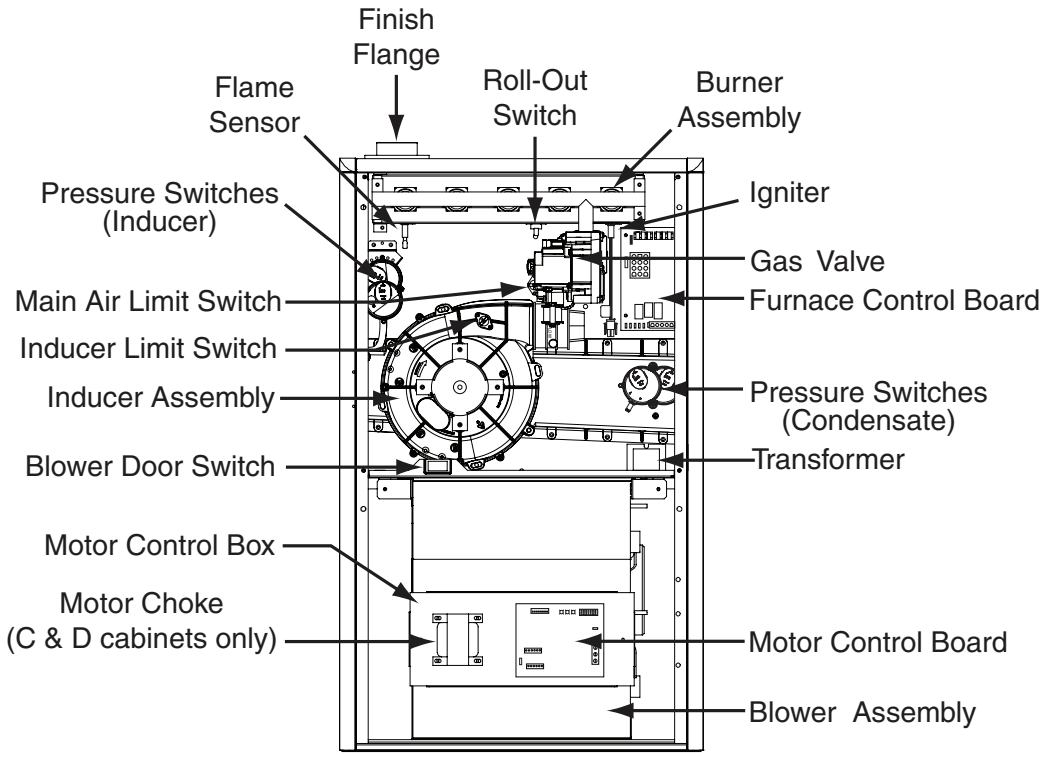
The high efficiency upflow gas furnace may be installed free standing in a utility room, basement, or enclosed in an alcove or closet. Upflow/Horizontal units come ready for upflow or horizontal application. The extended flush jacket provides a pleasing “appliance appearance.”



FEATURES and BENEFITS

- **Multi-speed direct drive blower:** Energy-efficient brushless DC (ECM) motor provides 16 speeds designed to give a wide range of cooling capacities.
- **100% fired and tested:** All units and each component are tested on the manufacturing line.
- **Best packaging in the industry:** Unique corner post design assures product will arrive to the homeowner dent free.
- **20 second blower delay:** At start-up assures a warm duct temperature at furnace start-up. Adjustable blower off settings (60, 90, 120 and 180 seconds).
- **30 second post purge:** Increases life of heat exchanger.
- **Hot surface igniter:** Innovative application of an appliance type igniter with a 20 year history of reliability. Utilizes proven Smartlite® technology.
- **Color coded wire harness:** Designed to fit the components, all with quick-connect fittings for ease of service and replacement.
- **Flexible category IV venting system:** May be vertically or horizontally vented using either a one-pipe or two-pipe system for maximum flexibility in installation.
- **High Static Blowers:** All models equipped with high static blowers.
- **Low Boy Height:** Easy to apply in low ceiling applications, works well with taller high SEER coils, easier to handle and install.
- **Tubular primary heat exchanger:** Heavy gauge aluminized steel heat exchanger and stainless steel secondary heat exchanger assures a long life.
- **60 second fixed cooling cycle blower-off delay (TDR):** Increases cooling performance when matched with a Nordyne coil.
- **LP convertible:** Simple burner orifice and regulator spring change for ease of convertibility.
- **Diagnostic lights for easy troubleshooting without counting flashes:** Dedicated light for flame signal strength and 2 lights in combination to indicate all other fault codes with easy to recognize states without counting flashes.
- **Incorporates integrated control board:** With connections for electronic air cleaner and humidifier. Ergonomically located for ease of service.
- **Two piece door design:** Enhances furnace appearance and uses captured screws to prevent losing door screws.
- **Sealed vestibule:** Reduces burner and inducer sound levels.
- **Furnace Air Leakage:** These furnaces comply with Energy Star cabinet air leakage requirement of less than or equal to 2%. Keep the conditioned air flowing to where it's needed.
- **PolyPro by DuraVent and InnoFlue by Centrotherm:** These furnaces have been tested with and are approved to be installed with DuraVent’s PolyPro and Centrotherm’s InnoFlue venting system.

LOCATION OF FURNACE COMPONENTS



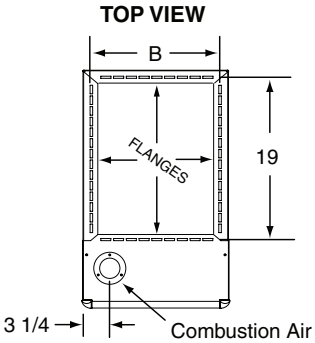
Upflow/Horizontal Gas Furnace Components

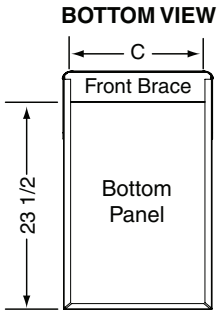
DIMENSIONS

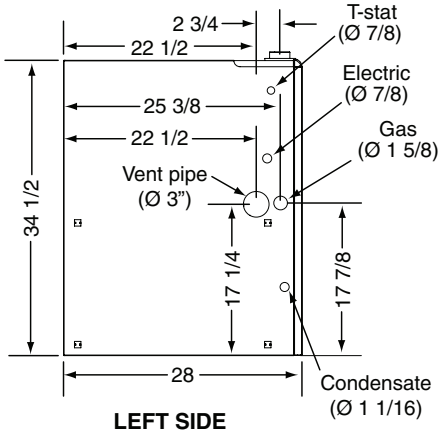
*TC Upflow/Horizontal Furnace

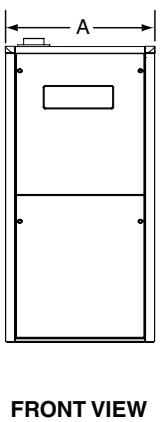
KG7TC Model #'s	Dimension "A"	Dimension "B"	Dimension "C"
060D-EB*	17 1/2	15 7/8	16 1/8
080D-EC*	21	19 3/8	19 5/8
100D-EC*			
120D-ED*	24 1/2	22 7/8	23 1/8

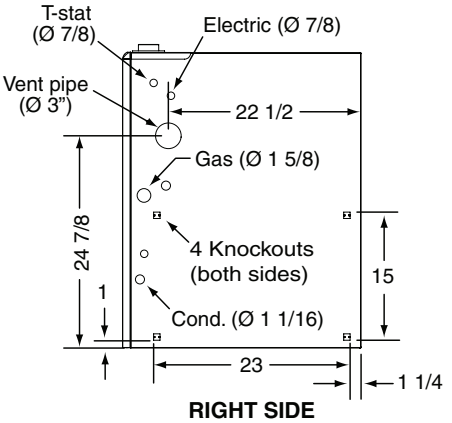
NOTE: Dimensions shown in inches



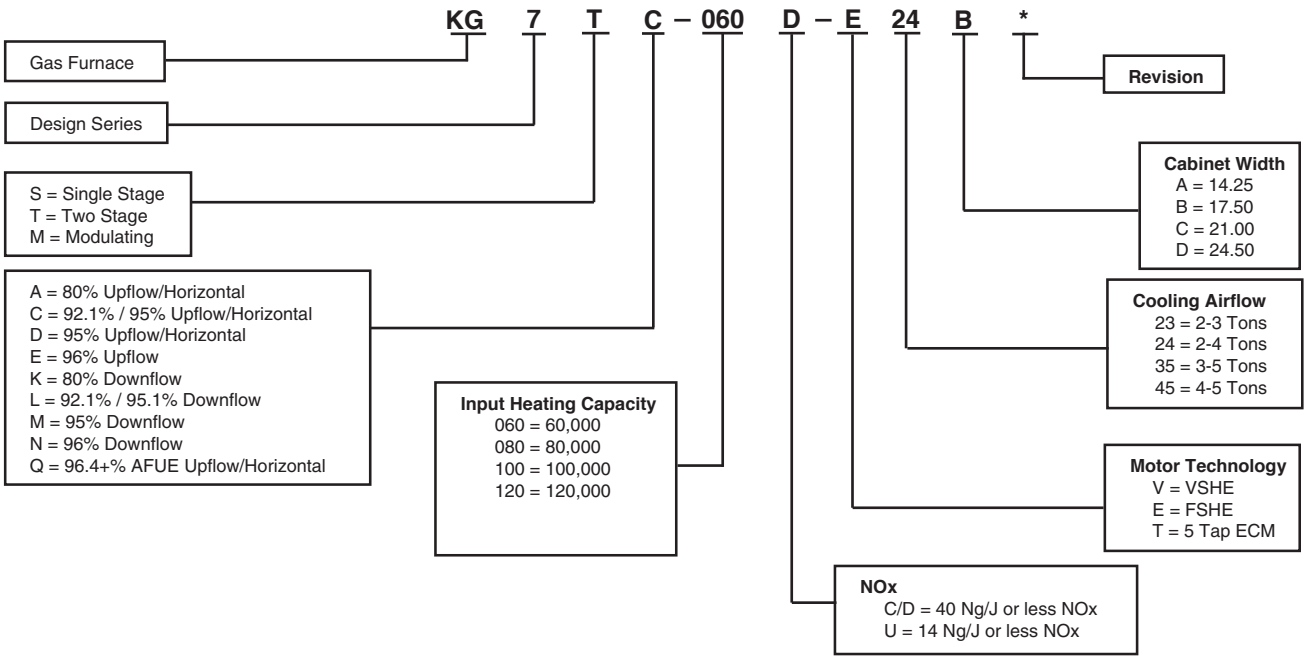








MODEL IDENTIFICATION CODE



SPECIFICATIONS

KG7TC MODEL NUMBERS:	-060D-E24B*	-080D-E35C*	-100D-E35C*	-120D-E45D*
Input - Btuh (a)	60000 / 39000	80000 / 52000	100000 / 65000	120000 / 78000
Heating Capacity - BtuH	57000 / 37000	76000 / 49000	95000 / 62000	114000 / 74000
AFUE	95	95	95	95
Motor H.P. - Speed - Type	1/2 - BLDC	3/4 - BLDC	3/4 - BLDC	1 - BLDC
Motor FLA	6.4	8.8	8.8	11.5
Rated Ext. SP - In. W.C.	0.50	0.50	0.50	0.50
Temperature Rise Range - F	30-60	35-65	35-65	40-70
Shipping Weights	120 lb	130 lb	140 lb	155 lb
SKU	1025920KP	1025921KP	1025922KP	1025923KP

Note:
All models are 120V, 60 Hz. Gas Connections are 1/2" N.P.T. AFUE = Annual Fuel Utilization Efficiency
(a) Ratings to 2,000 ft. Over 2,000 ft. should reduce 4% for each 1,000 ft. above sea level.

VENTING

All models are approved for vertical non direct (1 pipe) and direct (2 pipe) venting applications. See Vent Table below for specified sizes and allowable lengths.

VENT TABLE

FURNACE MODELS (BTU)	FURNACE INSTALLATION	SINGLE PIPE LENGTH (FT.) with 1 long radius elbow**		DIRECT VENT, DUAL PIPE LENGTH (ft.) WITH 1 long radius elbow on each pipe**	
		OUTLET	OUTLET	INLET/OUTLET	INLET/OUTLET
		2" Diameter	3" Diameter	2" Diameter	3" Diameter
60,000	Upflow	90	90	90	90
	Horizontal	50	90	50	90
80,000	Upflow	40	90	40	90
	Horizontal	30	90	30	90
100,000	Upflow	30	90	30	90
	Horizontal	30	90	30	90
120,000	Upflow	N/A	90	N/A	90
	Horizontal	N/A	90	N/A	90

***NOTES:**

1. Subtract 2.5 ft. for each additional 2 inch long radius elbow, 5 ft. for each additional 2 inch short radius elbow, 3.5 ft. for each additional 3 inch long radius elbow, and 7 ft. for each additional 3 inch short radius elbow. Subtract 5ft for each 2" tee and 8ft for each 3" tee.
2. Two 45 degree elbows are equivalent to one 90 degree elbow.
3. This table applies for elevations from sea level to 2,000 ft. For higher elevations, decrease pipe lengths by 8% per 1,000 ft of altitude.

ACCESSORIES

KG7TC KITS	
Description	**SKU**
2" Concentric Vent Kit, Canadian and US approved	904952
3" Concentric Vent Kit, Canadian and US approved	904953
2" Side Wall Vent Kit	904617
3" Side Wall Vent Kit	904347
U.S. LP Conversion Kit (0 to 10,000 ft.)	905028
Canada LP Conversion Kit (0 to 4,500 ft.)	905029
Side Return Filter Kit	541036
Neutralizer Kit	902377

GENERAL TERMS OF LIMITED WARRANTY

Nordyne, LLC will furnish a replacement for any part of this product which fails in normal use and service within the terms and conditions of the warranty.

For complete details of the Limited Warranty, including applicable terms and conditions, see your local installer or contact the Nordyne, LLC warranty department for a copy.

Before purchasing this appliance, read important energy cost and efficiency information available from your retailer. Specifications and illustrations subject to change without notice and without incurring obligations. Printed in U.S.A (07/2025)