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## TECHNICAL SPECIFICATIONS

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# G6RK Series

## High Efficiency Downflow Gas Furnace

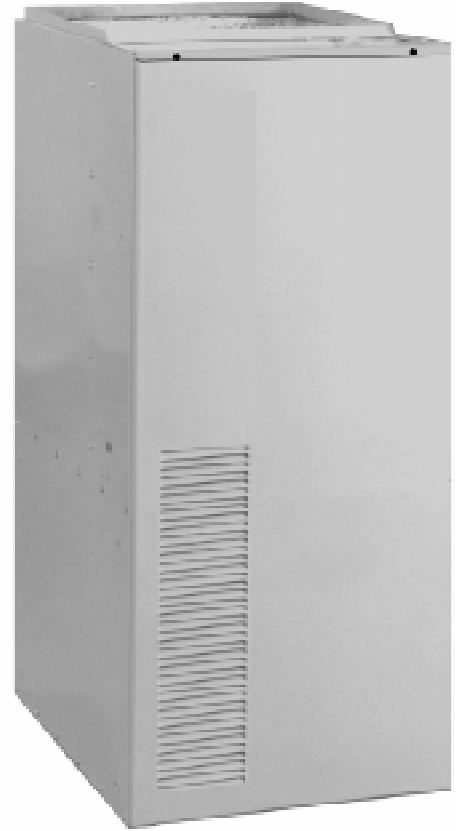
**Induced Draft - 80+ AFUE**

**Input 60,000 - 120,000 Btuh**

The high efficiency downflow gas furnace may be installed free standing in a utility room, basement, or enclosed in an alcove or closet. The extended flush jacket provides a pleasing “appliance appearance.” Design certified by the American Gas Association (AGA) Laboratories and the Canadian Gas Association (CGA) Laboratories. The product is truly designed with the contractor and the consumer in mind.

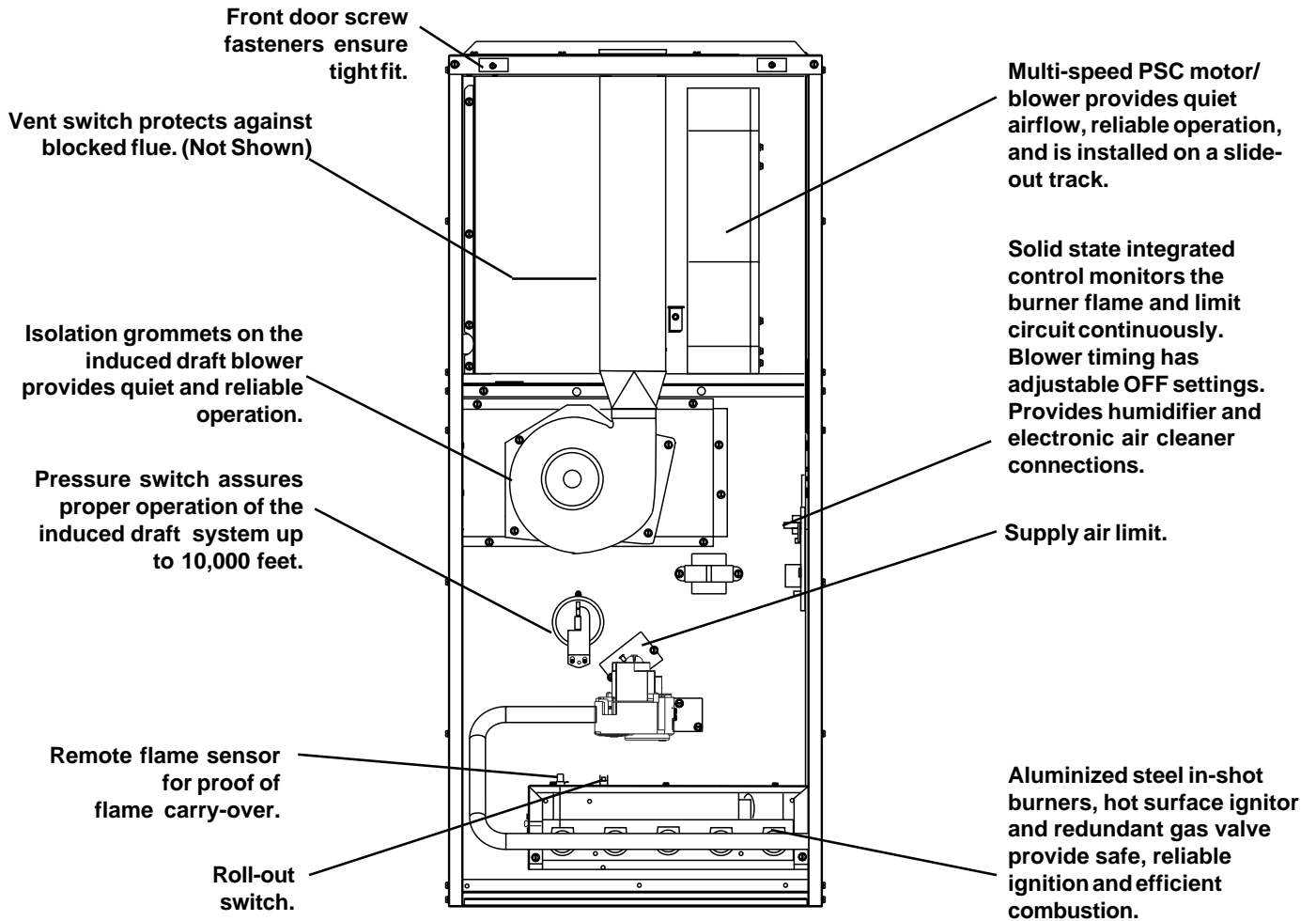
### Features and Benefits

- Best warranty in the business -
  - A full 20 years on the heat exchanger
  - 6 years on all parts
- 100% fired and tested - All units and each component (both mechanical and electrical) are tested on the manufacturing line.
- Best packaging in the industry - Unique design assures product will arrive to the homeowner dent free.
- Clean and quiet operation - Due to the unique design of in-shot burners, location of inducer, return air vents, and use of insulation.
- Fixed 30 second blower delay at burner start-up assures a warm duct temperature at furnace start-up. Adjustable blower off settings (60, 120, 160 and 180 seconds).
- Fixed 30 second post purge increases life of heat exchanger.
- Dependable, shock-mounted hot surface ignitor - Innovative application of an appliance type ignitor with a 20 year history of reliability, assures no callbacks because of handling.
- Color coded wire harness - Designed to fit the components, all with quick-connect fittings for ease of service and replacement.
- Approved for categories I and III venting systems - May be common, dedicated, or horizontally vented for maximum flexibility in installation.
- Tubular primary heat exchanger - Heavy gauge aluminized steel heat exchanger assures a long life.
- 90 second fixed cooling cycle blower-off delay (TDR) increases cooling performance when matched with a NORDYNE coil.
- Multi-speed direct drive blower - Designed to give a wide range of cooling capacities. 40VA transformer included.
- LP convertible - Simple burner orifice and regulator spring change for ease of convertibility.
- Diagnostic lights flash to identify limit failure, pressure switch failure, low flame signal and improper ground and polarization - for easy troubleshooting.
- Incorporates new integrated control board with connections for electronic air cleaner, humidifier and twinning.
- New door design enhances furnace appearance and uses screw fasteners for easier accessibility.
- 3 amp fuse protection against low voltage shorts; protects transformer and control board.
- Low voltage terminal board for easy field wiring.
- Components and Controls - Designing quality into our products means selecting manufacturers that have a reputation for delivering high quality, dependable products.



# FEATURES

## High Efficiency Downflow 80+ Gas Furnace



## STANDARD EQUIPMENT

Draft inducer; pressure switch; redundant main gas control; hot-surface ignition; timed ON/OFF blower controls (TDR); 40 VA transformer for air conditioner application; limit controls; direct drive motor; all models can be converted to use L.P. (propane) gas. Factory approved kits *only* must be used and are available as an optional accessory from your distributor.

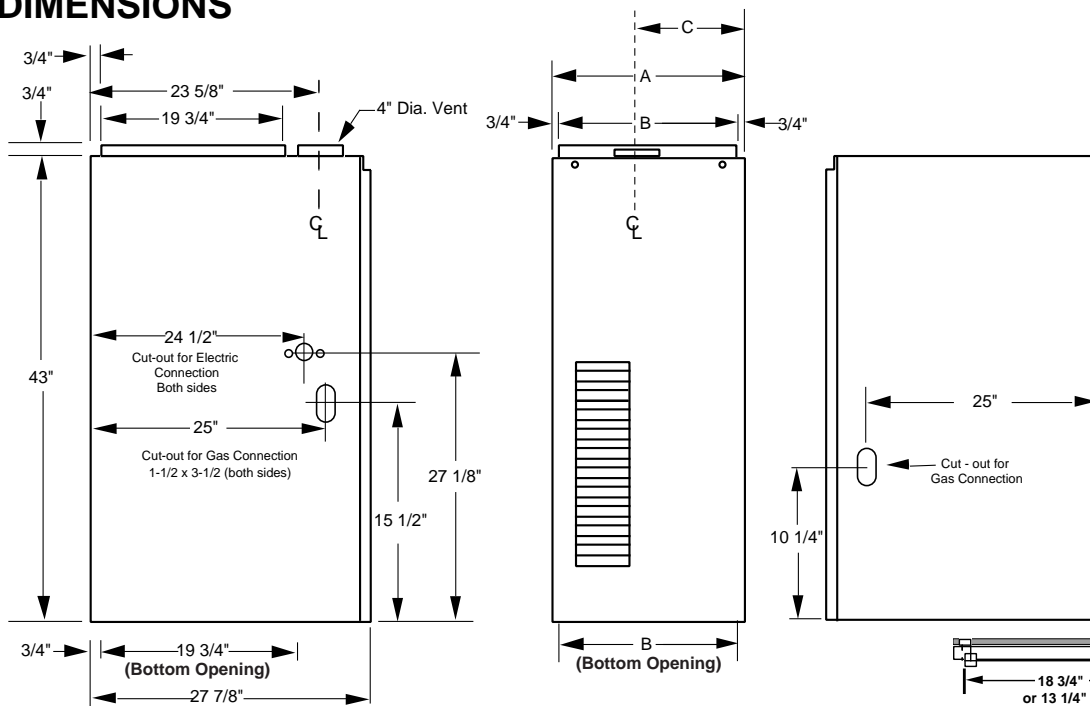
## SPECIFICATIONS

G6RK MODEL NUMBERS	-060C-12	-072C-12	-072C-16	-096C-12	-096C-16	-120C-20
Input-Btuh (a)	60,000	72,000	72,000	96,000	96,000	120,000
Heating Capacity - Btuh	48,000	58,000	58,000	77,000	77,000	96,000
<b>AFUE</b>	<b>80+</b>	<b>80+</b>	<b>80+</b>	<b>80+</b>	<b>80+</b>	<b>80+</b>
Blower D x W	10 x 6	10 x 6	10 x 10	10 x 8	10 x 10	11 x 10
Motor H.P. -Speed -Type	1/3 - 3 - PSC	1/3 - 3 - PSC	1/2 - 4 -PSC	1/3 - 3 -PSC	1/2 - 4 -PSC	3/4 - 4 -PSC
Motor FLA	6.0	6.0	7.9	6.0	7.9	11.1
Maximum Ext. SP - In. W.C.	0.5	0.5	0.5	0.5	0.5	0.5
Temperature Rise Range - °F	35 - 65	45 - 75	35 - 65	45 - 75	40 - 70	40 - 70

Note: All models are 115V, 60 Hz. Gas Connections are 1/2" N.P.T. AFUE = Annual Fuel Utilization Efficiency.

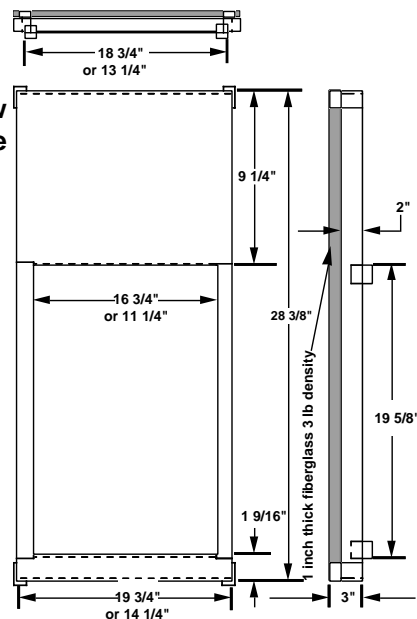
(a) Ratings to 2,000 feet. Over 2,000 feet, reduce 4% for each 1,000 ft. above sea level.

# DIMENSIONS



Model Number G6RK	Dimensions			Shipping Weights (lbs)
	A inches	B inches	C inches	
060C-12	14 1/4	12 3/4	5 1/2	134
072C-12	14 1/4	12 3/4	5 1/2	135
072C-16	19 3/4	18 1/4	11	147
096C-12	19 3/4	18 1/4	11	154
096C-16	19 3/4	18 1/4	11	156
120C-20	19 3/4	18 1/4	11	182

## Downflow Sub-Base



# BLOWER PERFORMANCE

Furnace Model No. G6RK	Motor Speed	Downflow Furnace Airflow Data									
		External Static Pressure (inches Water Column)									
		0.1		0.2		0.3		0.4		0.5	
		CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise
060C-12	High *	1380	-	1345	-	1330	-	1260	-	1230	-
	Medium	1180	39	1145	40	1130	41	1110	42	1080	43
	Low **	830	56	810	57	805	58	795	58	780	59
072C-12	High *	1380	-	1345	-	1330	-	1260	-	1230	-
	Medium	1180	47	1145	49	1130	49	1110	50	1080	52
	Low **	830	67	810	69	805	69	795	70	780	71
072C-16	High *	1850	-	1790	-	1775	-	1755	-	1735	-
	Med-High	1460	-	1435	-	1420	-	1400	-	1380	-
	Med-Low	1210	46	1195	47	1180	47	1160	48	1140	49
	Low **	1020	55	1010	55	995	56	975	57	955	58
096C-12	High *	1475	50	1460	51	1445	51	1430	52	1410	53
	Medium **	1200	62	1195	62	1180	63	1165	64	1145	65
	Low	795	-	785	-	770	-	755	-	735	-
096C-16	High *	1950	-	1890	-	1865	-	1835	-	1805	-
	Med-High	1600	46	1580	47	1555	48	1525	49	1495	50
	Med-Low **	1375	54	1360	55	1335	56	1305	57	1275	58
	Low	1180	63	1165	64	1140	65	1110	67	1080	69
120C-20	High *	2440	-	2395	-	2385	-	2375	-	2360	-
	Med-High	1920	48	1910	48	1900	49	1890	49	1875	49
	Med-Low**	1630	57	1620	57	1610	58	1600	58	1585	59
	Low	1430	65	1425	65	1415	66	1405	66	1390	67

\* Factory wired cooling speed tap.

\*\* Minimum approved heating speed, factory wired.

High Efficiency 80+ with Honeywell VR Gas Valve		
Kit		Order Number
U.S. LP Conversion Kit (0 to 10,000 ft.)		903616
Canadian LP Gas Conversion Kit (0 to 4,500 ft.)		903617
Fossil Fuel Kit		914762
Downflow Sub-Base	A Cabinet	902974
	B Cabinet	902677
Horizontal Vent Kit		903196

## VENTING

All models are approved for vertical or horizontal venting applications (See table below). All models may be common vented with a gas water heater. Type B gas vent materials may be used when connected to a gravity (vertical) vent system. The installation must be in accordance with the venting instructions supplied with the furnace.

## HORIZONTAL VENTING

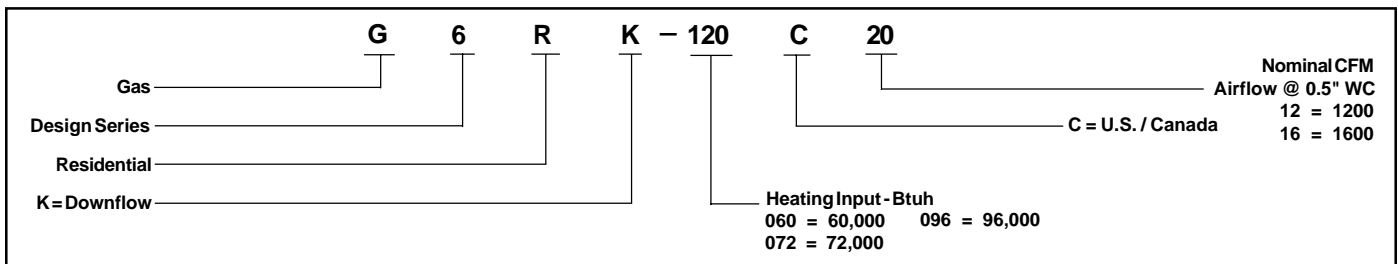
These furnaces are approved to use with 3" single wall Z-AL29-4C stainless steel vent pipe in horizontal vent applications. The pipe is available from the following manufacturers:

**Z-Flex Inc.** - vent brand name (**Z-VENT**)

**Heat-fab Inc.** - vent brand name (**Saf-T Vent**)

**Flex-L International** - vent brand name (**STAR-34 Vent**)

## IDENTIFICATION CODE



Model	Min. Pipe Size	Reducer Needed	Flue Outlet	Max. # Elbows	Max. Ft. Vent Pipe
G6RA					
060C-12	3"	4" to 3"	4	4	35
072C-12	3"	4" to 3"	4	4	35
072C-16	3"	4" to 3"	4	4	35
096C-12	3"	4" to 3"	4	4	35
096C-16	3"	4" to 3"	4	4	35
120C-20	3"	4" to 3"	4	4	35

## GENERAL TERMS OF LIMITED WARRANTY \*

NORDYNE will furnish a replacement for any part of this product which fails in normal use and service within the applicable periods stated below, in accordance with the terms of the warranty.

G6RK Models Warranty

Gas Heat Exchanger ..... 10-Year Limited Warranty

Any Other Part ..... 6-Year Limited Warranty

\* For complete details of the Limited Warranty, including applicable terms and conditions, see your local installer or contact the factory for a copy.



402A-0599 (Replaces 402A-0698)

St. Louis, MO

**NORDYNE**

Specifications and illustrations subject to change without notice and without incurring obligations. Before purchasing this appliance, read important energy cost and efficiency information available from your retailer. Printed in U.S.A. (05/99)