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## TECHNICAL SPECIFICATIONS

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# G6RD Series for Modular Housing

## Extra High Efficiency / Direct Vent or Non Direct Vent

### Condensing Upflow Gas Furnace

**Induced Draft - 93.5+ AFUE   Input 40,000 - 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. 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 installer and the consumer in mind.

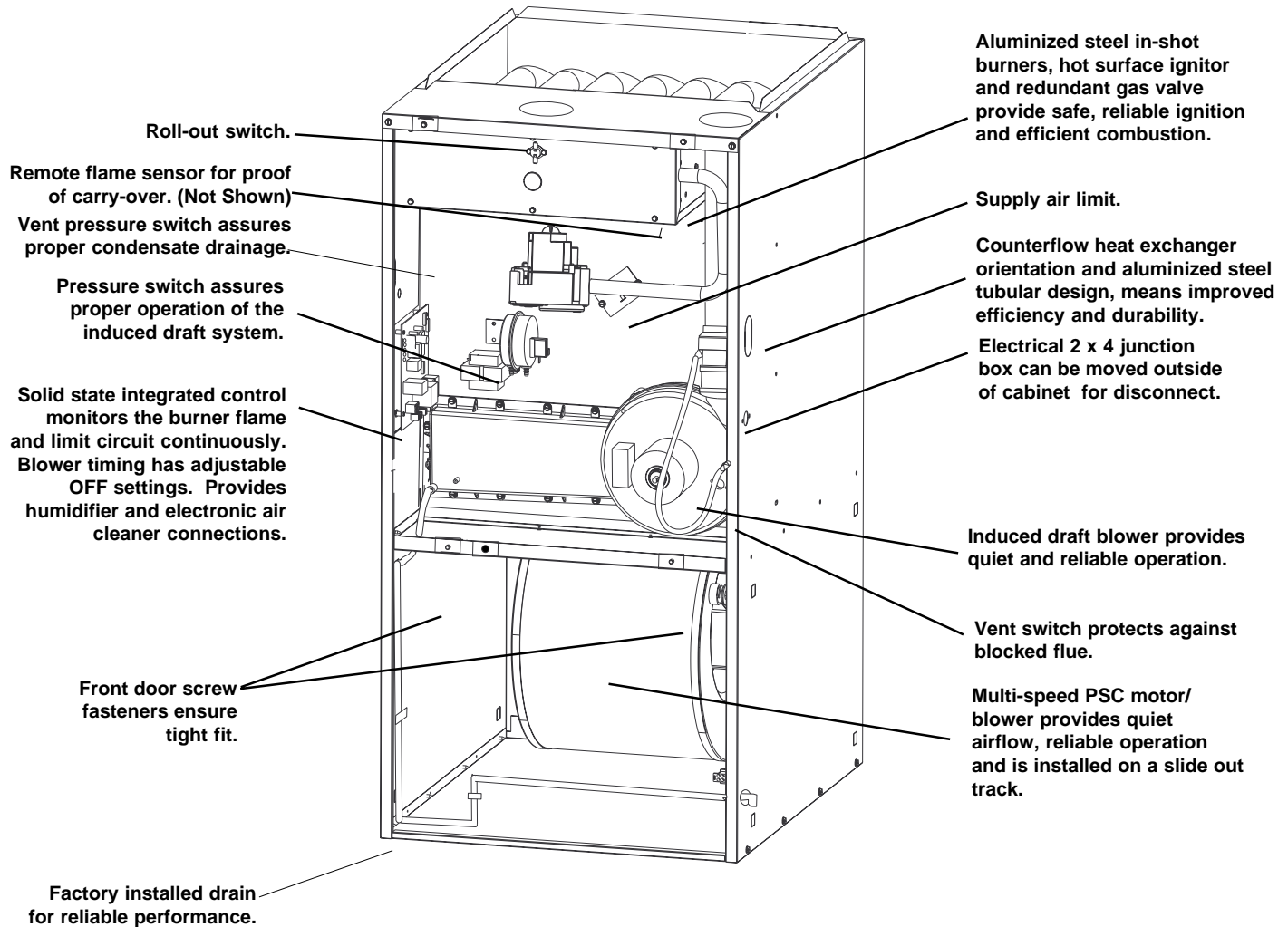
#### Features and Benefits

- Best warranty in the business —
  - A full 10 year warranty on the heat exchanger
  - 1 year limited warranty 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 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.
- Tubular primary heat exchanger — Heavy gauge aluminized steel heat exchanger assures a long life.
- Stainless steel secondary heat exchanger assures long life.
- 90 second fixed cooling cycle blower-off delay (TDR) increases cooling performance when matched with a NORDYNE coil.
- Approved for direct vent furnace, category IV venting system — May be vertically or horizontally vented using either a one-pipe or two-pipe system for maximum flexibility in installation.
- Variable speed blower kit available to maximize air conditioner and heat pump efficiencies. On selected units, SEER ratings up to 14 and HSPF ratings up to 8.5 are ARI listed.
- 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.
- Factory installed drain system for reliable performance.
- Diagnostic light flashes identify limit failure, pressure switch failure and improper ground and polarization — for easy troubleshooting.
- Incorporates new integrated control board with connections for electronic air cleaner, humidifier and twinning.
- New two piece door design enhances furnace appearance and uses screw fasteners for great fit and accessibility.
- 3 amp fuse protection against high and 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

## Extra High Efficiency Upflow 93+ Gas Furnace



## STANDARD EQUIPMENT

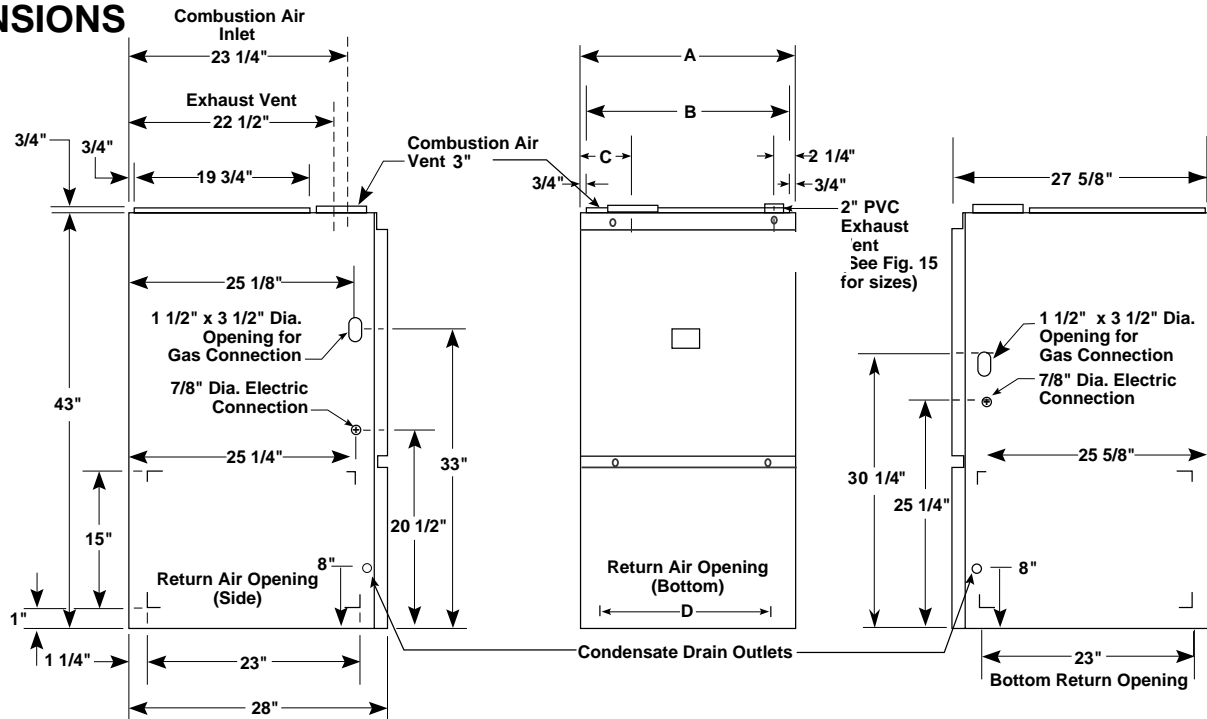
Direct vent; Induced draft; pressure switch; redundant main gas control; hot-surface ignition; timed ON/OFF blower controls (TDR); 40VA transformer for air conditioner application; limit controls; direct drive motor; all models can be converted to use L.P. (propane) gas. Factory approved kits *only*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

## SPECIFICATIONS

G6RD MODEL NUMBERS:	-040C-12	-060C-10	-080C-14	-100C-14	-120C-14	-120C-19
Input-Btuh (a)	40,000	60,000	80,000	100,000	120,000	120,000
Heating Capacity - Btuh	37,400	56,100	74,800	93,500	112,200	112,200
<b>AFUE</b>	<b>93.5+</b>	<b>93.5+</b>	<b>93.5+</b>	<b>93.5+</b>	<b>93.5+</b>	<b>93.5+</b>
Blower D x W	10 x 6	10 x 6	10 x 10	10 x 10	10 x 10	11 x 10
Motor H.P. -Speed -Type	1/3 - 3 - PSC	1/3 - 3 - PSC	1/2 - 4 -PSC	1/2 - 4 -PSC	1/2 - 4 -PSC	3/4 - 4 -PSC
Motor FLA	6.0	6.0	7.9	7.9	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	45 - 75	45 - 75	45 - 75	45 - 75	50 - 80	55 - 85
Filter (Not Supplied)	(1) 17 x 25	(1) 17 x 25	(1) 17 x 25	(1) 17 x 25	(1) 17 x 25	(1) 17 x 25
				(1) 19.25 x 25	(1) 22 x 25	(1) 22 x 25

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 ft. Over 2,000 ft. reduce 4% for each 1,000 ft. above sea level.

## DIMENSIONS



MODEL NUMBER G6RD	Dimensions				Shipping Weights (lbs)
	A (in.)	B (in.)	C (in.)	D (in.)	
40,000	14 1/4	12 3/4	5 1/8	11 3/4	133
60,000	14 1/4	12 3/4	5 1/8	11 3/4	140
80,000	19 3/4	18 1/4	7 7/8	17 1/4	172
100,000	19 3/4	18 1/4	7 7/8	17 1/4	180
120,000	22 1/2	21	9 1/4	20	198

## BLOWER PERFORMANCE

Furnace Model No. G6RD	Motor Speed	External Static Pressure (Inches Water Column)									
		0.1		0.2		0.3		0.4		0.5	
		CFM	Rise, F	CFM	Rise, F	CFM	Rise, F	CFM	Rise, F	CFM	Rise, F
040-10	High *	1050	34	1005	35	960	37	915	38	855	41
	Medium	990	36	950	37	905	39	860	41	810	43
	Low **	770	46	740	48	700	50	660	53	625	56
060-10	High *	1175	45	1125	47	1075	49	1030	51	970	54
	Medium **	1075	49	1040	51	995	53	950	56	900	59
	Low	800	66	770	69	745	71	710	74	670	-
080-14	High *	1620	43	1560	45	1490	47	1430	49	1365	52
	Med High	1450	49	1400	50	1350	52	1295	54	1240	57
	Med Low **	1255	56	1225	57	1180	60	1145	61	1105	64
	Low	1080	65	1055	67	1030	68	1000	70	960	73
100-14	High *	1620	54	1555	57	1485	59	1425	62	1355	65
	Med High **	1430	62	1375	64	1330	66	1265	70	1210	73
	Med Low	1260	70	1220	72	1170	75	1130	-	1070	-
	Low	1085	-	1050	-	1015	-	970	-	935	-
120-14	High *	1700	62	1635	65	1565	67	1500	70	1435	74
	Med High **	1510	70	1455	73	1405	75	1350	78	1290	-
	Med Low	1330	79	1280	-	1240	-	1195	-	1145	-
	Low	1140	-	1110	-	1075	-	1040	-	1010	-
120-19	High *	2140	49	2070	51	2010	53	1945	54	1870	56
	Med High	1955	54	1900	56	1850	57	1800	59	1740	61
	Med Low **	1660	64	1620	65	1575	67	1540	69	1495	71
	Low	1450	73	1430	74	1400	75	1360	78	1340	79

\* Factory-wired cooling speed tap

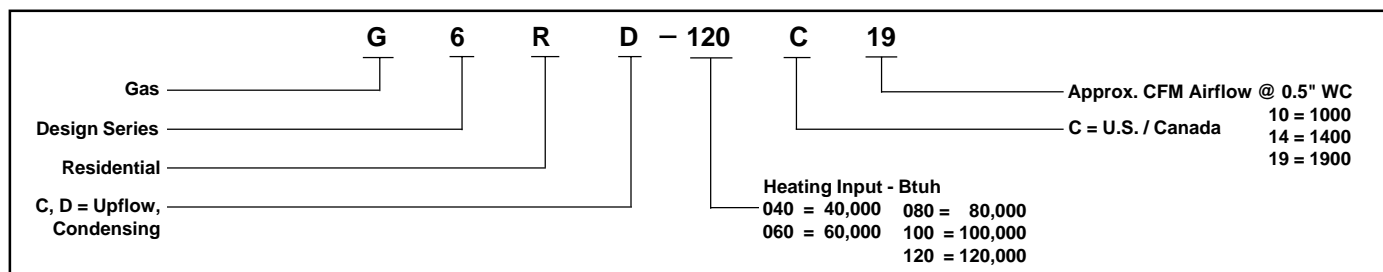
\*\* Factory-wired heating speed tap

- Operating point not recommended

- Not Recommended

**NOTE:** Airflow rates of 1800 CFM or more require two air return connectons. Data is for operation with filters.

## IDENTIFICATION CODE



## 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

APPLICATION	SINGLE PIPE LENGTH (ft.) with 1 long radius elbows*.		DIRECT VENT, DUAL PIPE LENGTH (ft.) with 1 long radius elbows on each pipe.*					
	Outlet	Outlet	Inlet/Outlet		Inlet/Outlet		Inlet/Outlet	
PVC, CPVC or ABS SCH. 40 Pipe Size	2"	3"	2"	2"	3"	2"	3"	3"
Models G6RC,D,L 040	80	150	40	40	50	50	90	90
Models G6RC,D,L 060 & 080	60	150	30	30	35	35	90	90
Models G6RC,D,L 100 & 120	30	150	15	15	25	25	90	90

\* NOTE:

1. Subtract 2.5 ft. for each additional 2" elbow and 3.5 ft. for each additional 3" elbow.
2. Two 45° elbows are equivalent to one 90° elbow.
3. One short radius elbow is equivalent to two long radius elbows.
4. Do not include termination elbows in calculation of vent length.
5. This table is applicable for elevations from sea level to 2000 ft. For higher elevations decrease vent pipe lengths by 8% per 1000 ft. of altitude.
6. Only the above pipe materials are approved for use with G6 Condensing Furnaces.

## ACCESSORY VENT KITS

Kit Description	2" PVC	3" PVC	4" PVC
Horizontal Exterior Vent Mounting Kit	9023730	9023750	9023760
Neutralizer Kit (all models)	9023770		

High Efficiency 90+ 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
Side Return Filter Kit	541036
Bottom Return Filter Kits	A Cabinet 903088 B Cabinet 903089 C Cabinet 903090
Internal Side Return Filter Wire	903152

## 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.

G6RD Models Warranty  
 Gas Heat Exchanger ..... 10 Year Limited Warranty\*  
 Any Other Part..... 1 Year Limited Warranty

\* For original owner only – not transferable.

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



As an Energy Star Partner, NORDYNE has determined that this product meets the Energy Star guidelines for energy efficiency.