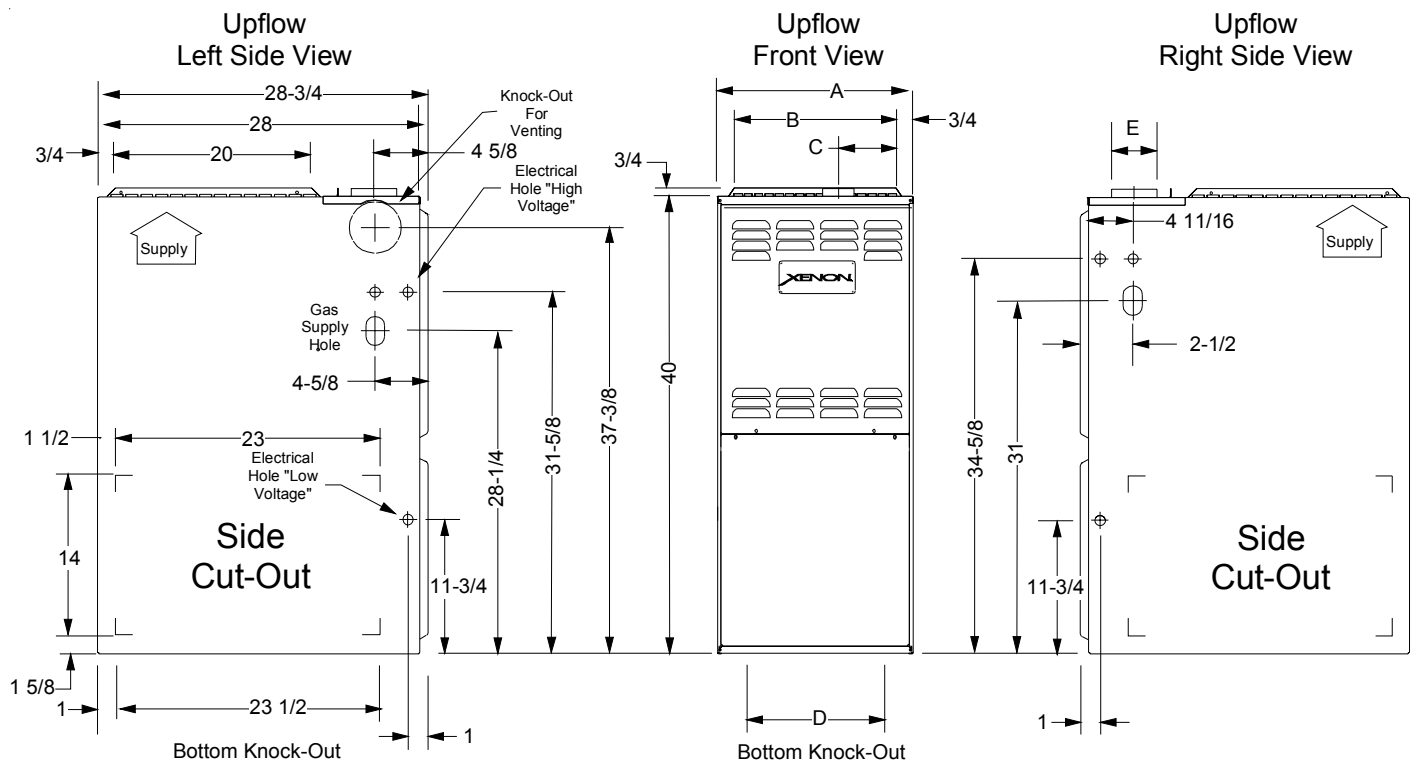


Gas Fired Warm Air Furnace Specification Sheet

DIMENSIONS (Inches)



MODEL	A	B	C	D	E	MINIMUM VENT DIAMETER
703	16-1/2	15	5-1/4	12-5/8	4	4
904	20-1/2	19	7-1/4	14-5/8	4	4
1155 1405	24-1/2	23	9-1/4	18-5/8	4	5

All dimensions are in inches.

SPECIFICATIONS

Model Number	High Fire Rates		Low Fire Rates		Temp. Rise Range (°F)	No. of Burners	Minimum Circuit Ampacity ¹ (Amps)	Maximum Overcurrent Protection ² (Amps)	Circulator Blower			Tons AC at 0.5" ESP	Pressure ³ Switch Settings (Inches W.C.)		Ship. Wt. (lbs)
	Input (Btu/hr)	Output (Btu/hr)	Input (Btu/hr)	Output (Btu/hr)					Size (D" x W")	HP	No. of Speeds		ID Blower (Low)	ID Blower (High)	
0704	69,000	55,200	48,000	38,400	30 - 60	3	10.9	15	10 X 6	1/2	4	2.5 - 3.5	-0.45	-0.80	152
0903	92,000	73,600	64,000	51,200	35 - 65	4	8.0	15	10 x 8	1/2	4	1.5 - 3.5	-0.37	-0.74	169
0905	92,000	73,600	64,000	51,200	35 - 65	4	14.8	15	10 X 8	3/4	4	3.0 - 5.0	-0.37	-0.74	178
1155	115,000	92,000	80,000	64,000	35 - 65	5	13.5	15	10 X 9	3/4	4	3.0 - 5.0	-0.37	-0.66	194
1405	138,000	110,400	96,000	76,800	45 - 75	6	14.4	15	10 X 9	3/4	4	3.5 - 5.0	-0.32	-0.66	198

¹ Minimum Circuit Ampacity = (1.25 x Circulator Blower Amps) + ID Blower Amps.

² Maximum Overcurrent Protection refers to maximum recommended fuse or circuit breaker size.

³ As shipped for installations below 2000 feet.

Flame sensor output is 1 to 4 microamps at 115 volts.

FILTERS ARE NOT INCLUDED WITH FURNACE AND MUST BE SUPPLIED BY THE INSTALLER.



WARNING

To avoid death, personal injury or property damage due to fire, do not exceed maximum recommended fuse or circuit breaker size.

MINIMUM CLEARANCES



WARNING

To avoid death, personal injury or property damage due to fire, clearances to combustible surfaces listed as below must be observed.

SERVICE ACCESSIBILITY AND UNIT CONNECTIONS

- 36 inches front clearance is required for servicing or cleaning.
- Unit connections (electrical, flue, and drain) may necessitate greater clearances than the minimum clearances listed below.

NOTE: In all cases, accessibility clearance must take precedence over clearances from the enclosure where accessibility clearances are greater.

MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS (INCHES)							
POSITION ¹	FRONT	RIGHT	LEFT	REAR	TOP	FLUE	FLOOR
Upflow	0	6 ²	0	0	1	6 ³	C
Horizontal Left	12	Alcove	6	0	6	6 ³	C
Horizontal Right	6	Alcove	12	0	6	6 ³	C

¹All positioning is determined as installed unit is viewed from the front.

²3 inch when Type B-1 vent is used.

³1 inch when Type B-1 vent is used.

C = If placed on combustible floor, floor MUST be wood ONLY.

BLOWER PERFORMANCE

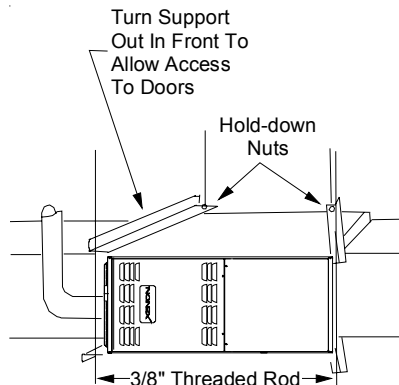
Model (Htg Speed as Shipped)	Motor Speed	Tons AC at .5" ESP	External Static Pressure, Inches Water Column															
			0.1			0.2			0.3			0.4			0.5			0.6
			CFM	RISE		CFM	RISE		CFM	RISE		CFM	RISE		CFM	RISE		CFM
				HIGH FIRE	LOW FIRE		HIGH FIRE	LOW FIRE		HIGH FIRE	LOW FIRE		HIGH FIRE	LOW FIRE		HIGH FIRE	LOW FIRE	
0703 (30-60) High Fire: Med-Lo Low Fire: Low	HIGH MED-HI MED-LO LOW	3.5 3.0 3.0 2.5	1695 1485 1235 1095	30 34 41 47	---- ---- ---- 33	1625 1450 1200 1070	31 35 43 48	---- ---- 30 33	1580 1400 1180 1050	32 37 43 49	---- ---- 30 34	1520 1350 1140 1025	34 38 45 50	---- ---- 31 35	1450 1295 1115 975	35 39 46 52	---- ---- 32 37	1365 1235 1050 950
0903 (35-65) High Fire: High Low Fire: Low	HIGH MED-HI MED-LO LOW	3.5 3.0 2.0 1.5	1630 1360 920 770	42 50 ---- ----	---- 35 52 62	1560 1325 920 750	44 51 ---- ----	---- 36 52 64	1550 1290 900 740	44 53 ---- ----	---- 37 53 64	1465 1215 890 730	47 56 ---- ----	---- 39 54 65	1380 1155 850 690	49 59 ---- ----	35 41 56 ----	1275 1070 800 660
0905 (35-65) High Fire: Med-Lo Low Fire: Low	HIGH MED-HI MED-LO LOW	5.0 4.0 3.5 3.0	2250 1775 1320 1180	---- 38 52 58	---- ---- 36 40	2185 1750 1315 1180	---- 39 52 58	---- ---- 36 40	2120 1735 1315 1175	---- 39 52 58	---- ---- 36 41	2030 1690 1315 1170	34 40 52 58	---- ---- 36 41	1975 1650 1280 1140	35 41 53 60	---- ---- 37 42	1885 1600 1240 1120
1155 (35-65) High Fire: Med-Lo Low Fire: Low	HIGH MED-HI MED-LO LOW	5.0 5.0 4.0 3.0	2330 2120 1875 1290	37 40 45 ----	---- ---- ---- 46	2245 2070 1840 1275	38 41 46 ----	---- ---- ---- 47	2165 2020 1800 1250	39 42 47 ----	---- ---- ---- 48	2065 1940 1735 1235	41 44 49 ----	---- ---- ---- 48	1985 1850 1685 1210	43 46 51 ----	---- ---- 35 49	1885 1775 1600 1170
1405 (45-75) High Fire: Med-Hi Low Fire: Low	HIGH MED-HI MED-LO LOW	5.0 5.0 4.0 3.5	2455 2050 1715 1450	---- 50 60 70	---- ---- ---- 49	2390 2025 1700 1436	---- 50 60 71	---- ---- ---- 50	2290 1965 1660 1413	45 52 62 72	---- ---- ---- 51	2200 1890 1615 1380	46 54 63 74	---- ---- ---- 52	2050 1810 1555 1338	50 56 66 ----	---- ---- 46 53	1935 1715 1472 1280

NOTES:

- All furnaces ship as high speed for cooling. Installer must adjust blower speed as needed.
- For most jobs, about 400 CFM per ton when cooling is desirable.
- This chart is for furnaces installed at 0 - 2000 feet. At higher altitudes, a properly derated unit will have the same temperature rise at a particular CFM, while the ESP at that CFM will be lower.
- The shaded area () indicates ranges in excess of maximum external static pressure allowable when heating. For satisfactory operation, external static pressure should not exceed 0.5" W.C. The data for 0.6" to 0.8" w.c. is shown for air conditioning purposes only.
- The dashed (----) areas indicate a temperature rise not recommended for this model.
- The installation must be adjusted to obtain a temperature rise within the range listed on the furnace nameplate.

FURNACE SUSPENSION

If necessary to suspend the furnace from rafters or joists, use 3/8 inch threaded rod with angle iron as shown below.



PROPANE CONVERSIONS

When installing this furnace refer to the High Altitude Chart for proper high altitude kit, if required, and gas manifold pressure.

HIGH ALTITUDE GAS ORIFICE CHART						
Gas	Altitude (ft)	Kit	Orifice	Manifold Pressure		Pressure Switch Change
				High Stage	Low Stage	
Propane	0-7000	LPTK09	#55	10.0" w.c.	6.0" w.c.	None
	7001-8500	HALP09	#56	10.0" w.c.	6.0" w.c.	None

NOTE: In Canada, gas furnaces are certified to 4500 feet.
Do **NOT** install this furnace above 8500 feet.

HIGH ALTITUDE INSTALLATIONS

Two-Stage High Altitude Kits (Category I Venting Only)		
Altitude (ft)	Model	Kit
0-3000	0703	Not Required
	0903	
	0905	
	1155	
	1405	
3001-7000	0705	HATS01
	0903	HATS02
	0905	HATS02
	1155	HATS03
	1405	HATS04
7001-8500	0703	HATS06
	0903	
	0905	
	1155	HATS07
	1405	HATS08

FILTERS

NOTE: Filters are required with this furnace and must be provided by the installer. The filters used must comply with UL900 or CAN/ULCS111 standards. Installing this furnace without filters will void the unit warranty.

This furnace has provisions for the installation of return air filters at the side and/or bottom return. The furnace will accommodate the following filter sizes depending upon cabinet size.

Side Return(s)		
Cabinet Width (in.)	Nominal Filter Size (in.)	Approx. Flow Area (in ²)
All	16 x 25 x 1	400

Bottom Return		
Cabinet Width (in.)	Nominal Filter Size (in.)	Approx. Flow Area (in ²)
16-1/2	14 x 25 x 1	350
20-1/2	16 x 25 x 1	400
24-1/2	20 x 25 x 1	500

Refer to Minimum Filter Area tables to determine filter area requirement. **NOTE:** Filters can also be installed elsewhere in the duct system such as a central return.

		Cooling Airflow Requirement (CFM)						
		600	800	1000	1200	1400	1600	2000
Input_Airflow	0703	---	---	503*	576	672	---	---
	0903	610*	610*	610*	610*	---	---	---
	0905	---	---	---	610*	672	768	960
	1155	---	---	---	762*	762*	768	960
	1405	---	---	---	838*	838*	838*	960

*Minimum filter area dictated by heating airflow requirement.

Disposable Minimum Filter Area (in²)

[Based on a 300 ft/min filter face velocity]

		Cooling Airflow Requirement (CFM)						
		600	800	1000	1200	1400	1600	2000
Input_Airflow	0703	---	---	251*	288	336	---	---
	0903	305*	305*	305*	305*	---	---	---
	0905	---	---	---	305*	336	384	480
	1155	---	---	---	381*	381*	384	480
	1405	---	---	---	419*	419*	419*	480

*Minimum filter area dictated by heating airflow requirement.

Permanent Minimum Filter Area (in²)

[Based on 600 ft/min filter face velocity]

FLAME SENSOR

Flame sensor output is 1 to 4 microamps at 115 volts.

NOTES:

1. All furnaces have a redundant gas valve and blower door interlock switch.
2. All furnaces are manufactured for use on 115 VAC, 60 Hz, single phase electrical supply.
3. **IMPORTANT:** While the data is presented as a guide, it is very important to electrically connect the unit and properly size fuses and wires in accordance with the National Electrical Code and/or all existing local codes.
4. Performance figures are based on Department of Energy information and requirements under continuous operating conditions. Performance will vary with weather conditions and use.

ACCESSORIES

- Thermostat
 - Programmable Digital Thermostat, Two Heat/Two Cool(1213407)
 - Non-Programmable Digital Thermostat, Two Heat/Two Cool (1213411)
- Fossil Fuel Kit (FFK03A)
- External Filter Rack (EFR01)
- Electronic Air Cleaner (EAC5)
- Media Air Cleaner (MAC1)



WARNING

To prevent death, personal injury or property damage due to electrical shock, disconnect electrical power to this furnace before servicing or performing maintenance.

