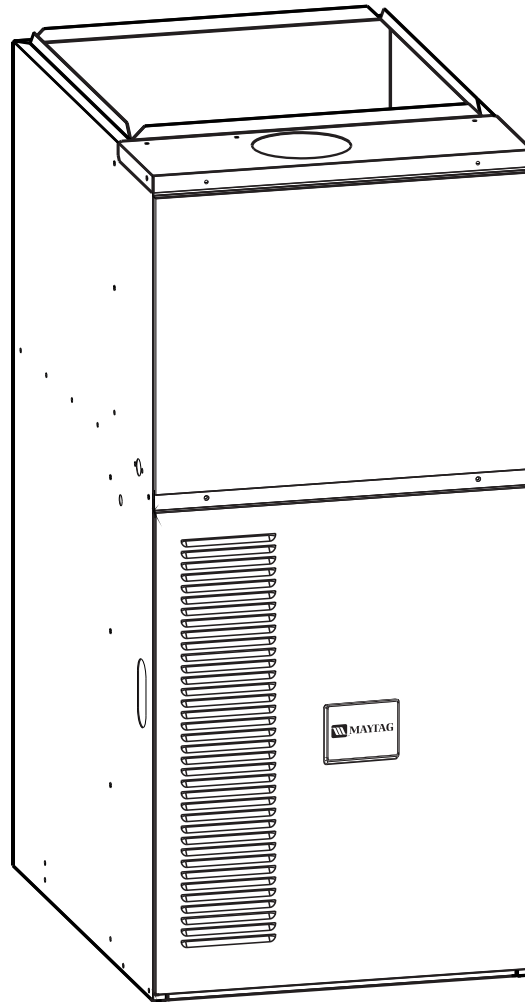




TECHNICAL SPECIFICATIONS

Model MGF1RK Series



M1000 Product Line

**High Efficiency Downflow Gas Furnace
80+ AFUE**

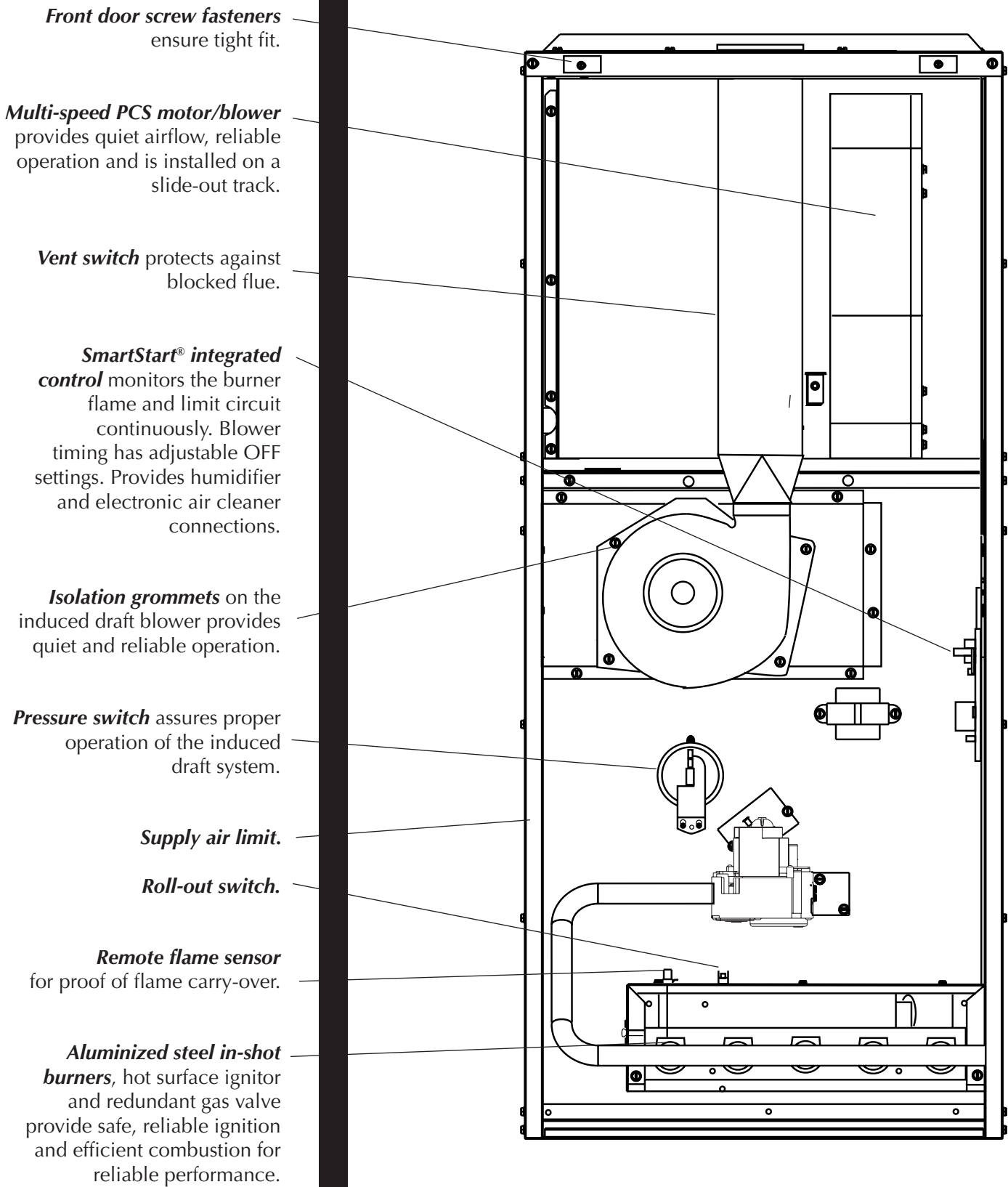
- **10 YEAR WARRANTY**
- **WORRY-FREE PERFORMANCE**



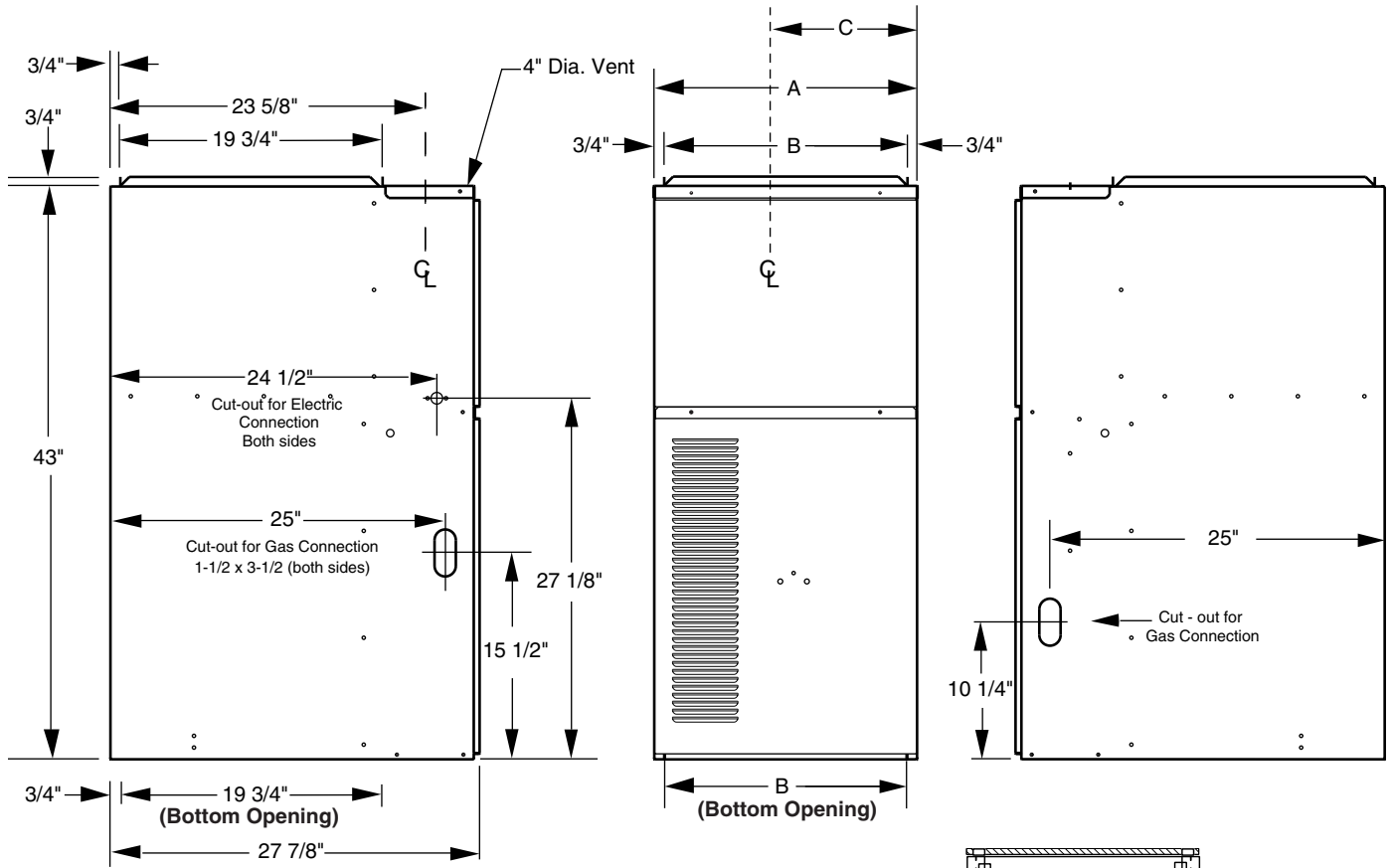
The high efficiency downflow gas furnace may be installed free standing in a utility room, basement, or enclosed in an alcove or closet. The extended flush jacket provides a pleasing “appliance appearance.” Design certified by the Canadian Standards Association (CSA).

Features and Benefits

- **Best warranty in the business** —
 - A full 20 years on the heat exchanger
 - 10 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.
- **SmartStart® Control Board** — Provides extended life to ignitors in furnaces using hot surface ignition technology. Programmed to learn the heat-up characteristics of the ignitor, then adapt the ignition time to the characteristics of the furnace so the ignitor is energized appropriately.
- **Dependable, 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.
- **Fully insulated blower cabinet** for quiet operation.
- **Fixed cooling cycle blower-off delay (TDR)** increases cooling performance when matched with a Maytag 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.
- **Two piece 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.



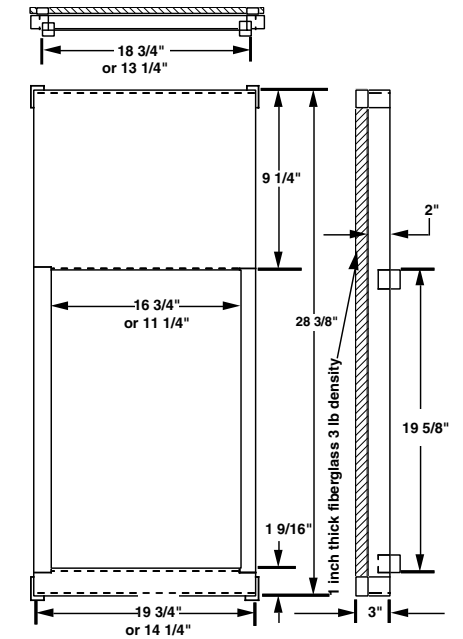
DIMENSIONS



Model Number	Dimensions			Shipping Weights (lbs)
	A inches	B inches	C inches	
MGF1RK				
060()-12A	14 1/4	12 3/4	5 1/2	134
072()-08A	14 1/4	12 3/4	5 1/2	135
072()-12A	14 1/4	12 3/4	5 1/2	135
072()-16B	19 3/4	18 1/4	11	147
096()-12B	19 3/4	18 1/4	11	154
096()-16B	19 3/4	18 1/4	11	156
120()-20B	19 3/4	18 1/4	11	182
135()-20B	19 3/4	18 1/4	11	182

() Can be "C" or "N"

Downflow Sub-Base



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

MGF1RK MODEL NUMBERS	060C12A	072C08A	072C12A	072C16B	096C12B	096C16B	120C20B	135C20B
Input-Btuh (a)	60,000	72,000	72,000	72,000	96,000	96,000	120,000	135,000
Heating Capacity - Btuh	48,000	58,000	58,000	58,000	77,000	77,000	96,000	110,000
AFUE	80+	80+	80+	80+	80+	80+	80+	80+
Blower D x W	10 x 6	10 x 6	10 x 6	10 x 10	10 x 8	10 x 10	11 x 10	11 x 10
Motor H.P. -Speed -Type	1/3 - 3 - PSC	1/3 - 3 - PSC	1/3 - 3 - PSC	1/2 - 4 -PSC	1/3 - 3 -PSC	1/2 - 4 -PSC	3/4 - 4 -PSC	3/4 - 4 -PSC
Motor FLA	6.0	6.0	6.0	7.9	6.0	7.9	11.1	11.1
Maximum Ext. SP - In. W.C.	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Temperature Rise Range - °F	35 - 65	45 - 75	45 - 75	35 - 65	45 - 75	40 - 70	40 - 70	40 - 70

() Can be "C" or "N"

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.

VENTING

All models, with the exception of the reduced NOx 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.

Model Number MGF1RK	Min. Pipe Size	Reducer Needed	Flue Outlet (in.)	Max. # Elbows	Max. Ft. Vent Pipe
060()12A	3"	4" to 3"	4	4	35
072()08A	3"	4" to 3"	4	4	35
072()12A	3"	4" to 3"	4	4	35
072()16B	3"	4" to 3"	4	4	35
096()12B	3"	4" to 3"	4	4	35
096()16B	3"	4" to 3"	4	4	35
120()20B	3"	4" to 3"	4	4	35
135()20B	3"	4" to 3"	4	4	35

HORIZONTAL VENTING

These furnaces are approved to use with 3" single wall AL29-4C stainless steel vent pipe in horizontal vent applications, and with the required horizontal vent kit 903196. 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**)

BLOWER PERFORMANCE

MODEL NUMBER *RK	HEATING INPUT	MOTOR SPEED	MOTOR HP	EXTERNAL STATIC PRESSURE (INCHES OF WATER COLUMN)															
				0.1		0.2		0.3		0.4		0.5		0.6		0.7		0.8	
				CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise
060(†)12A	60,000	HIGH*	1/3	1380	-	1345	-	1330	-	1260	36	1230	37	1190	38	1160	39	1120	40
		MEDIUM		1180	38	1145	40	1130	40	1110	41	1080	42	1060	43	1040	44	1010	45
		LOW**		830	55	810	56	805	56	795	57	780	58	770	59	760	60	750	60
072(†)08A	72,000	HIGH*	1/3	1380	-	1345	-	1330	-	1260	-	1230	-	1190	46	1160	47	1120	49
		MEDIUM**		1180	46	1145	47	1130	48	1110	49	1080	50	1060	51	1040	52	1010	54
		LOW*		830	65	810	67	805	67	795	68	780	70	770	71	760	71	750	72
072(†)12A	72,000	HIGH*	1/3	1380	-	1345	-	1330	-	1260	-	1230	-	1190	46	1160	47	1120	49
		MEDIUM		1180	46	1145	47	1130	48	1110	49	1080	50	1060	51	1040	52	1010	54
		LOW**		830	65	810	67	805	67	795	68	780	70	770	71	760	71	750	72
072(†)16B	72,000	HIGH*	1/2	1850	-	1790	-	1775	-	1755	-	1735	-	1700	-	1680	-	1650	-
		MED-HIGH		1460	-	1435	38	1420	38	1400	39	1380	39	1360	40	1340	41	1320	41
		MED-LOW		1210	45	1195	45	1180	46	1160	47	1140	48	1120	49	1110	49	1090	50
096(†)12B	96,000	MEDIUM**	1/3	1475	49	1460	50	1445	50	1430	51	1410	51	1400	52	1380	52	1360	53
		LOW		1200	60	1195	61	1180	61	1165	62	1145	63	1140	64	1120	65	1110	65
				795	-	785	-	770	-	755	-	735	-	720	-	710	-	690	-
096(†)16B	96,000	HIGH*	1/2	1950	-	1890	-	1865	-	1835	-	1805	40	1770	41	1730	42	1700	43
		MED-HIGH		1600	45	1580	46	1555	47	1525	48	1495	48	1470	49	1450	50	1420	51
		MED-LOW		1375	53	1360	53	1335	54	1305	56	1275	57	1250	58	1230	59	1200	60
120(†)20B	120,000	LOW	3/4	1180	61	1165	62	1140	64	1110	65	1080	67	1060	68	1030	70	1010	-
		HIGH*		2440	-	2395	-	2385	-	2375	-	2360	-	2340	-	2320	-	2300	-
		MED-HIGH		1920	47	1910	47	1900	48	1890	48	1875	48	1870	48	1860	49	1840	49
135(†)20B	135,000	MED-LOW	3/4	1630	56	1620	56	1610	56	1600	57	1585	57	1580	57	1570	58	1550	58
		LOW		1430	63	1425	64	1415	64	1405	64	1390	65	1380	66	1370	66	1360	67
		HIGH*		2440	41	2395	42	2385	42	2375	42	2360	42	2340	43	2320	43	2300	44
135(†)20B	135,000	MED-HIGH**	3/4	1920	51	1910	52	1900	52	1890	53	1875	53	1870	53	1860	54	1840	55
		LOW		1630	61	1620	62	1610	62	1600	63	1585	63	1580	63	1570	64	1550	65
				1430	69	1425	70	1415	70	1405	-	1390	-	1380	-	1370	-	1360	-

- * Factory Set Cooling Speed
- ** Factory Set Heating Speed
- Not Recommended
- (†) Can be "C" or "N"

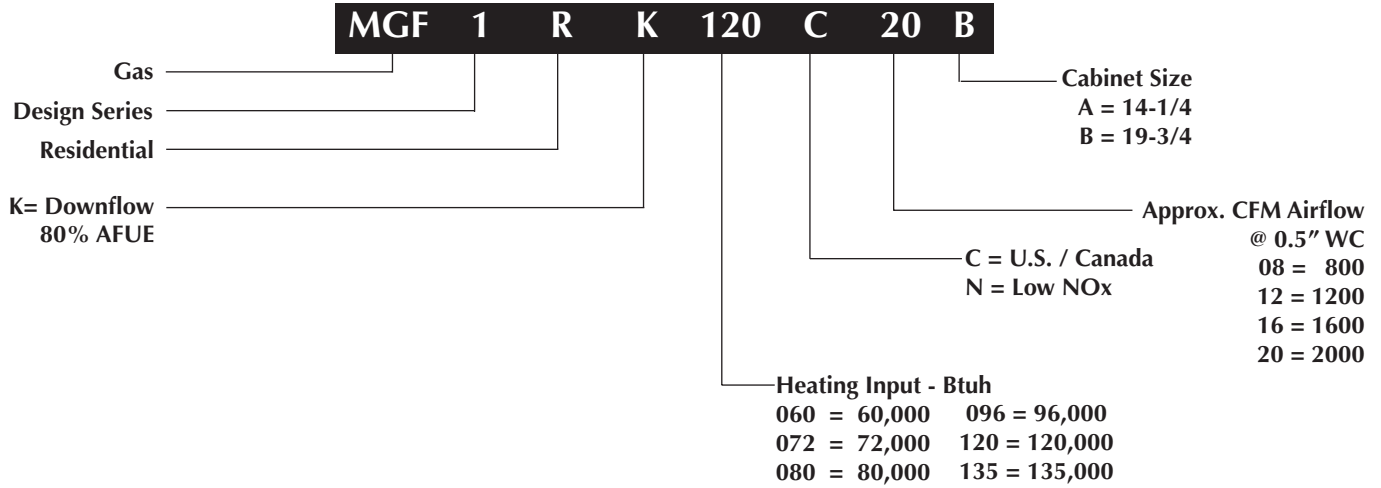
Notes:

1. Airflow rates of 1800 CFM or more require two return air connections. Data is for operation with filter(s).
2. Temperature rises in the table are approximate. Actual temperature rises may vary.
3. Temperature rises and airflows for external static pressures greater than 0.5 are for reference only. These conditions are not recommended.

ACCESSORIES

Kit	Order Number
U.S. LP Conversion Kit (0 to 10,000 ft.)	904090A
Canadian LP Gas Conversion Kit (0 to 4,500 ft.)	904091A
Fossil Fuel Kit	914762
Side Return Filter Kit	541036
Bottom Return Filter (20/Box)	A Cabinet 903088 B Cabinet 903089 C Cabinet 903090
Horizontal Vent Kit	903196
Internal Side Return Filter Wire	903152
Variable Speed Blower Kit for "B" & "C" Cabinets	904075
Variable Speed Blower Kit for "A" Cabinets	904231

IDENTIFICATION CODE



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.

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