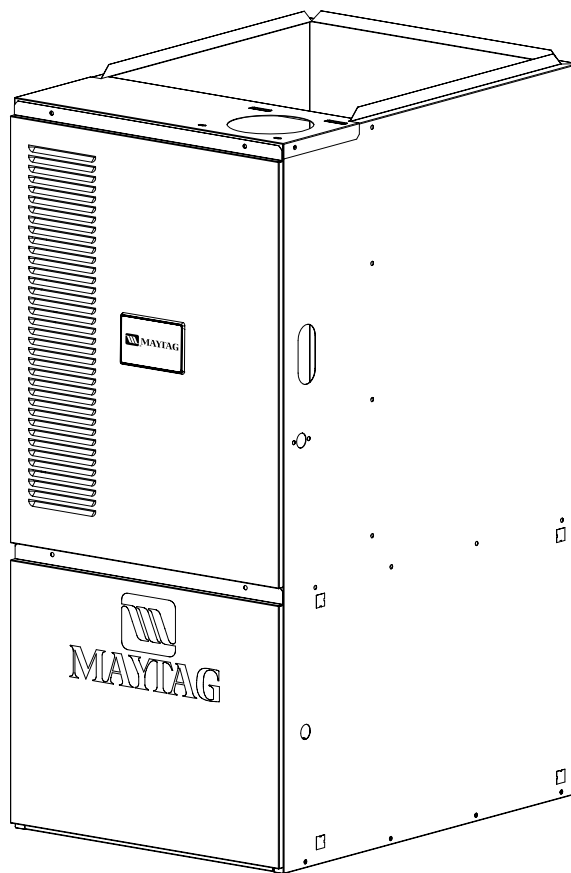




TECHNICAL SPECIFICATIONS

*Model MGF1TA 2 Stage Series Upflow/Horizontal
Model MGF1TK 2 Stage Series Downflow*



M1000 Product Line

High Efficiency / 80+ AFUE Furnace

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



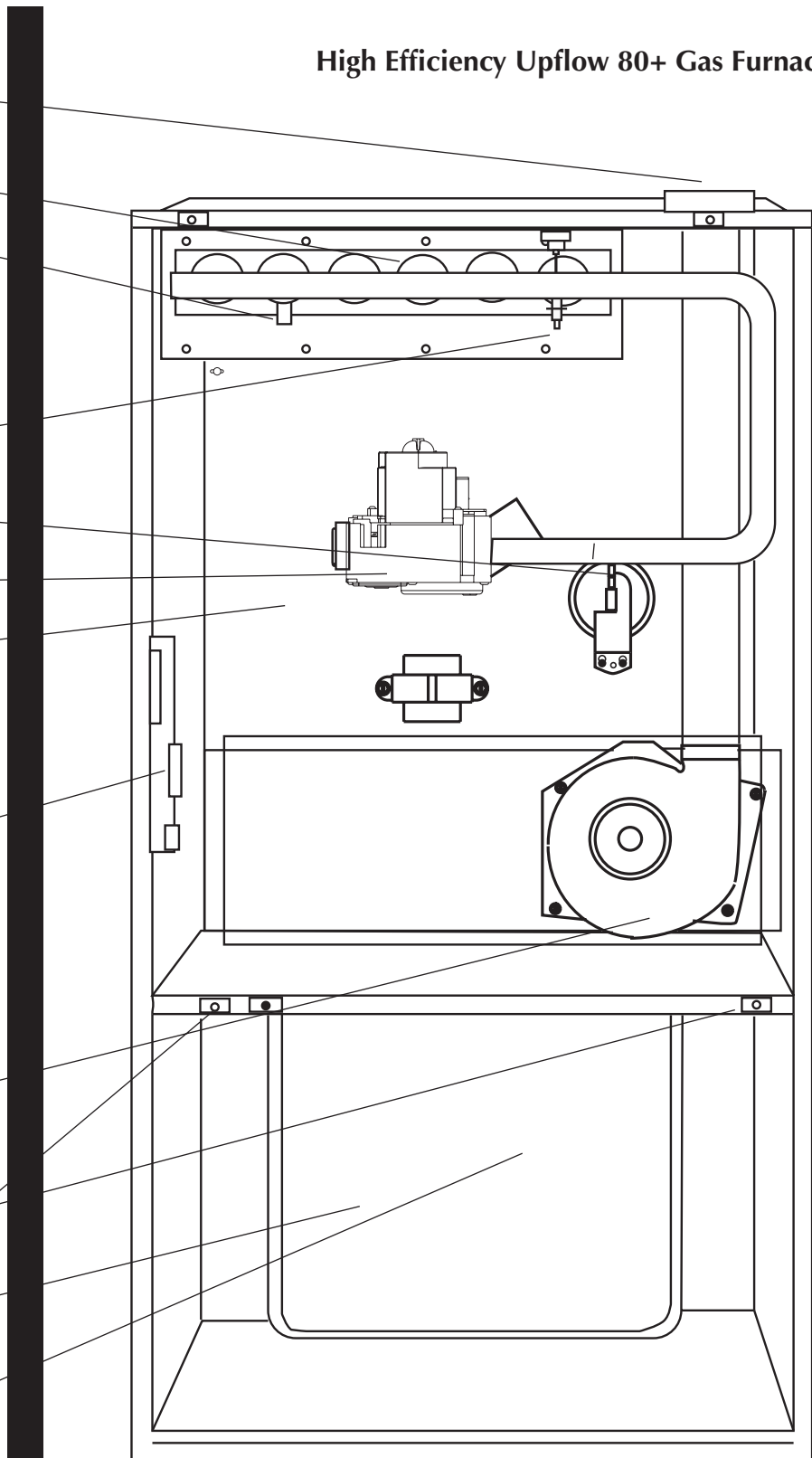
The high efficiency 2-Stage gas furnace may be installed free standing in a utility room, basement, or enclosed in an alcove or closet. With kit, the upflow model converts easily to horizontal application. The extended flush jacket provides a pleasing “appliance appearance.” Design certified by the CSA International (Canadian Standards Association). The product is truly designed with the contractor and the consumer in mind.

Features and Benefits

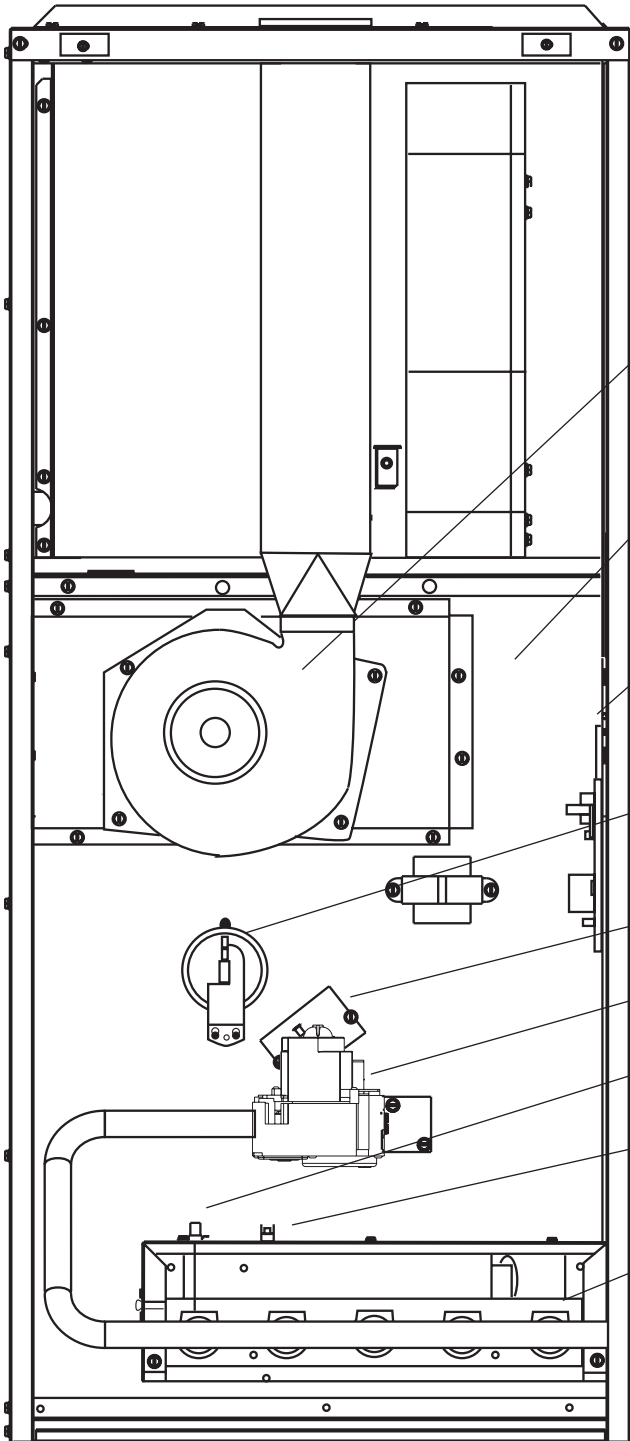
- **Best warranty in the business** —
 - 20 year warranty on the heat exchanger.
 - 10 Year Parts Warranty
- **100% fired and tested** — All units and each component (both mechanical and electrical) are tested on the manufacturing line.
- **Best packaging in the industry** — Unique design assures product 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.
- **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 igniter** — Innovative application of an appliance type ignitor with a 20-year history of reliability, assures no call-backs 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 a long life.
- **Fixed cooling cycle blower-off delay (TDR)** increases cooling performance when matched with a Maytag coil.
- **Approved for categories I and III venting systems** – May be common, dedicated, or horizontally vented for maximum flexibility in installation.
- **Fully insulated blower cabinet** for quiet operation.
- **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 integrated control board** with connections for electronic air cleaner, humidifier and twinning.
- **Two piece door design** enhances furnace appearance and uses screw fasteners for great fit and accessibility.
- **3 amp fuse** protection against low voltage shorts; protects transformer and control board.

High Efficiency Upflow 80+ Gas Furnace

- Vent switch** protects against blocked flue.
- Roll-out switch.**
- Aluminized steel in-shot burners**, hot surface ignitor and redundant gas valve provide safe, reliable ignition and efficient combustion.
- Remote flame sensor** for proof of carry-over.
- Supply air limit.**
- Gas Valve.**
- Counterflow heat exchanger** orientation and aluminized steel tubular design, means improved efficiency and durability. (Not Shown)
- SmartStart™ integrated control** monitors the burner flame and limit circuit continuously. Blower timing has adjustable OFF settings. Provides humidifier and electronic air cleaner connections.
- Induced draft blower** provides quiet and reliable operation.
- Front door screw fasteners** ensure tight fit.
- Fully Insulated** blower compartment.
- Multi-speed PSC motor/blower** provides quiet airflow, reliable operation, and is installed on a slide out track.



High Efficiency Downflow 80+ Gas Furnace



Multi-speed PSC motor/blower provides quiet airflow, reliable operation, and is installed on a slide-out track. (Not shown)

Induced draft blower provides quiet and reliable operation.

Counterflow heat exchanger orientation and aluminized steel tubular design, means improved efficiency and durability. (Not shown)

SmartStart™ integrated control monitors the burner flame and limit circuit continuously. Blower timing has adjustable OFF settings. Provides humidifier and electronic air cleaner connections.

Pressure switch assures proper operation of the induced draft system.

Supply air limit.

Gas Valves.

Remote flame sensor for proof of flame carry-over.

Roll-out switch.

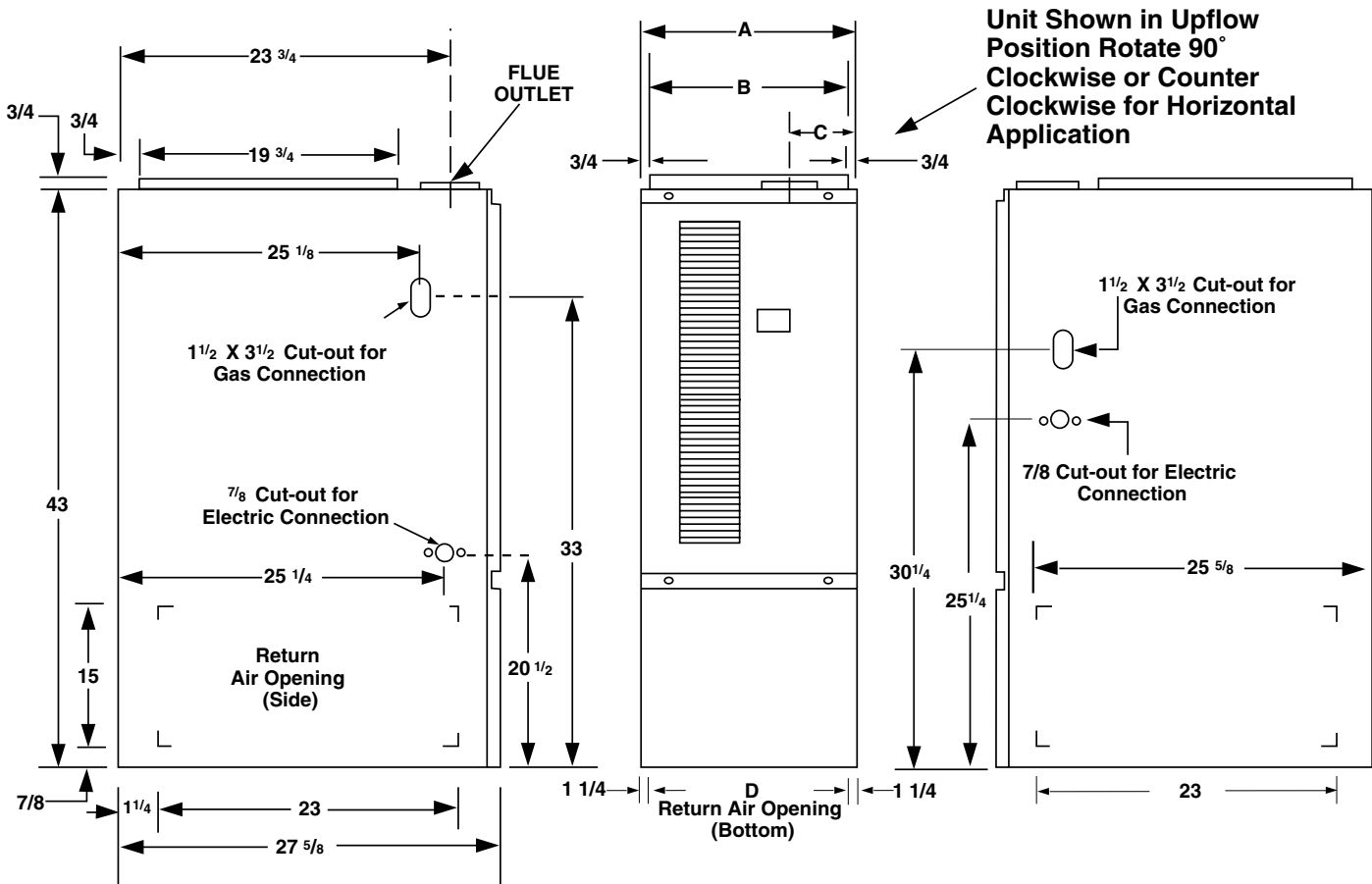
Aluminized steel in-shot burners, hot surface ignitor and redundant gas valve provide safe, reliable ignition and efficient combustion.

DIMENSIONS

Upflow/Horizontal Furnace

FURNACE DIMENSIONS AND SHIPPING WEIGHTS								
Model MGF1TA	High Input (Btuh)	Low Input (Btuh)	Dimensions				Shipping Weight (lbs)	D (IN.)
			A (in.)	B (in.)	C (in.)	Flue Outlet (in.)		
060(*)-08A	60,000	42,000	14 1/4	12 3/4	3 1/4	4	120	11 3/4
060(*)-12A	60,000	42,000	14 1/4	12 3/4	3 1/4	4	132	11 3/4
072(*)-12	72,000	50,000	19 3/4	18 1/4	3 3/4	4	135	11 3/4
072(*)-16	72,000	50,000	19 3/4	18 1/4	3 3/4	4	152	11 3/4
096(*)-12	96,000	67,000	19 3/4	18 1/4	3 3/4	4	135	11 3/4
096(*)-16	96,000	67,000	19 3/4	18 1/4	3 3/4	4	152	11 3/4
096(*)-20	96,000	67,000	19 3/4	18 1/4	3 3/4	4	174	11 3/4
120(*)-16C	120,000	84,000	22 1/2	21	3 3/4	4	174	20
120(*)-20C	120,000	84,000	22 1/2	21	3 3/4	4	182	20

Note: (*) Can be C or N

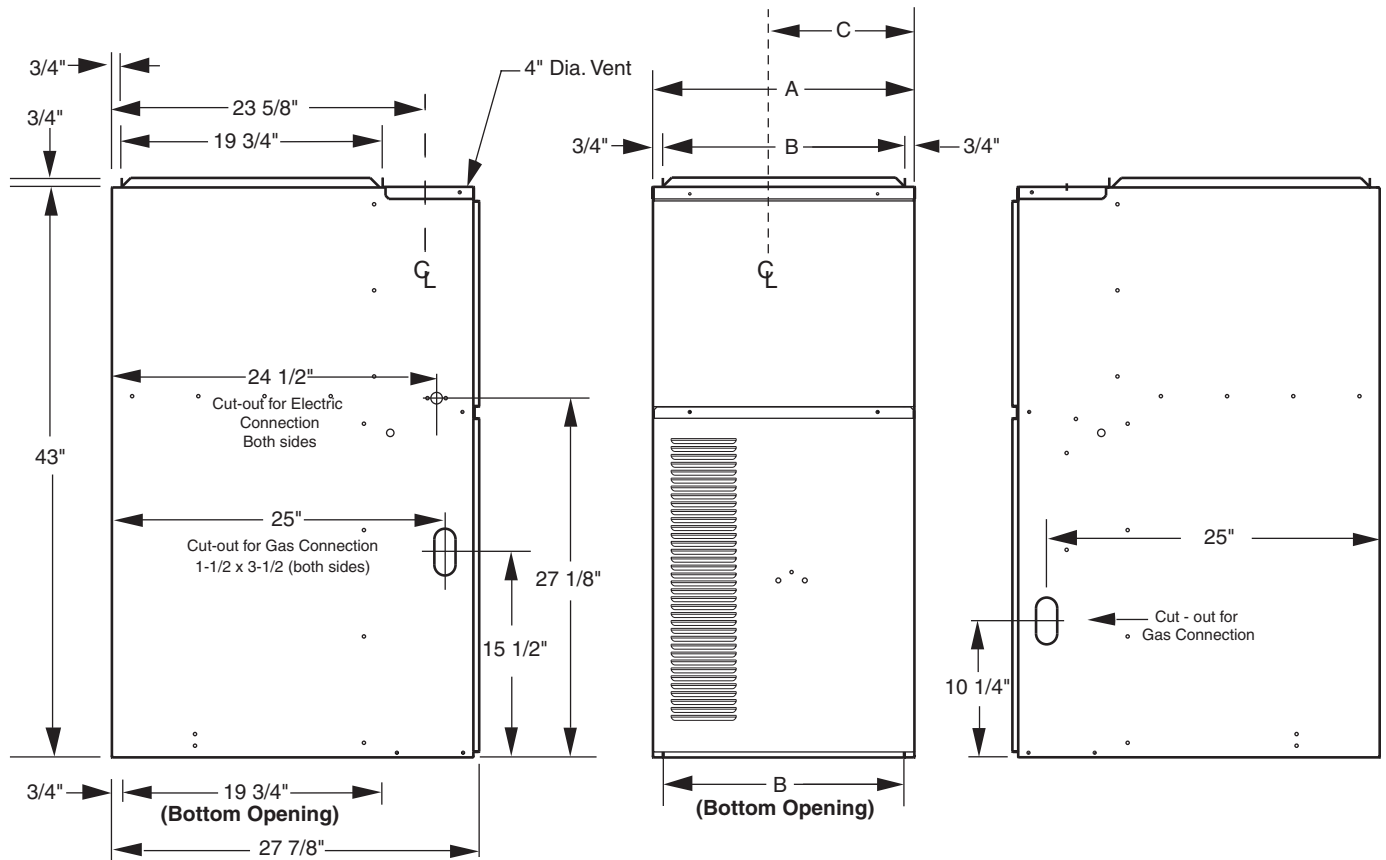


DIMENSIONS (continued)

Downflow Furnace

FURNACE DIMENSIONS AND SHIPPING WEIGHTS							
Model MGF1TK	High Input (Btuh)	Low Input (Btuh)	Dimensions				Shipping Weight (lbs)
			A (in.)	B (in.)	C (in.)	Flue Outlet (in.)	
060(*)-08A	60,000	42,000	14 1/4	12 3/4	5 1/2	4	120
060(*)-12A	60,000	42,000	14 1/4	12 3/4	5 1/2	4	132
072(*)-12	72,000	50,000	19 3/4	18 1/4	11	4	135
072(*)-16	72,000	50,000	19 3/4	18 1/4	11	4	152
096(*)-12	96,000	67,000	19 3/4	18 1/4	11	4	135
096(*)-16	96,000	67,000	19 3/4	18 1/4	11	4	152
096(*)-20	96,000	67,000	19 3/4	18 1/4	11	4	174
120(*)-16C	120,000	84,000	19 3/4	18 1/4	11	4	174
120(*)-20C	120,000	84,000	19 3/4	18 1/4	11	4	182

Note: (*) Can be C or N



STANDARD EQUIPMENT

Draft inducer; 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 Maytag distributor.

SPECIFICATIONS

	060(C,N)-08A	060(C,N)-12A	072(C,N)-12B	072(C,N)-16B	096(C,N)-12B	096(C,N)-16B	096(C,N)-20B	120(C,N)-16C	120(C,N)-20C
High Fire Rated Input(Btu/h) (a)	60,000	60,000	72,000	72,000	96,000	96,000	96,000	120,000	120,000
High Fire Heating Capacity(Btu/h)	48,000	48,000	57,600	57,600	77,000	77,000	77,000	96,000	96,000
Low Fire Rated Input(Btu/h) (a)	42,000	42,000	50,000	50,000	67,000	67,000	67,000	84,000	84,000
Low Fire Heating Capacity(Btu/h)	34,000	34,000	40,000	40,000	54,000	54,000	54,000	67,000	67,000
AFUE	80+	80+	80+	80+	80+	80+	80+	80+	80+
Maximum Heating Ext. St. Press.(in WC)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Blower Wheel D x W	10 x 6	10 x 6	9 x 9	10 x 10	9 x 9	10 x 10	11 x 10	10 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 - 4 PSC	1/2 - 4 - PSC	3/4 - 4 - PSC	1/2 - 4 - PSC	3/4 - 4 - PSC
High Fire Temperature Rise Range(F)	30 - 60	30 - 60	30 - 60	45 - 75	45 - 75	40 - 75	35 - 65	45 - 75	40 - 70
Low Fire Temperature Rise Range(F)	25 - 55	25 - 55	25 - 55	35 - 65	35 - 65	25 - 55	25 - 55	35 - 65	25 - 55

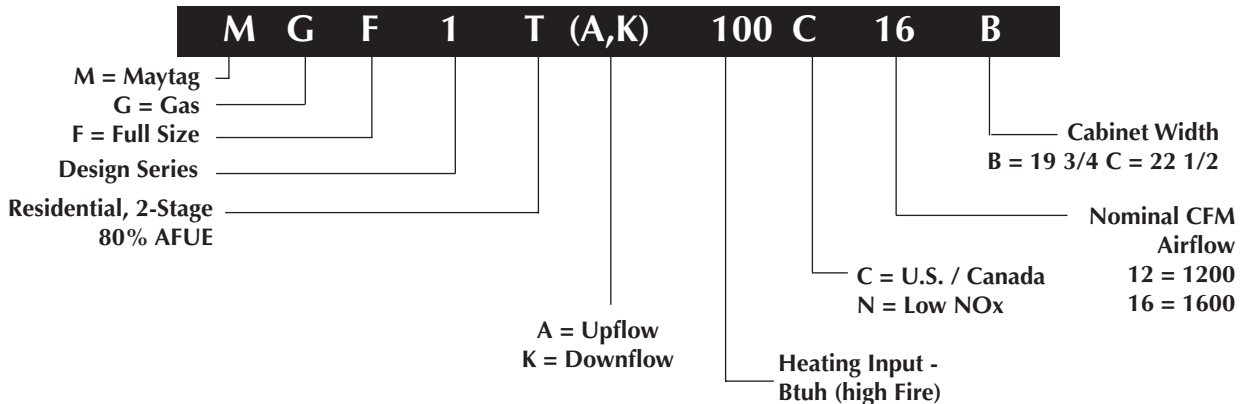
	060(C,N)-08A	060(C,N)-12A	072(C,N)-12B	072(C,N)-16B	096(C,N)-12B	096(C,N)-16B	096(C,N)-20B	120(C,N)-16B	120(C,N)-20B
High Fire Rated Input(Btu/h) (a)	60,000	60,000	72,000	72,000	96,000	96,000	96,000	120,000	120,000
High Fire Heating Capacity(Btu/h)	48,000	48,000	57,600	57,600	77,000	77,000	77,000	96,000	96,000
Low Fire Rated Input(Btu/h) (a)	42,000	42,000	50,000	50,000	67,000	67,000	67,000	84,000	84,000
Low Fire Heating Capacity(Btu/h)	34,000	34,000	40,000	40,000	54,000	54,000	54,000	67,000	67,000
AFUE	80+	80+	80+	80+	80+	80+	80+	80+	80+
Maximum Heating Ext. St. Press.(in WC)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Blower Wheel D x W	10 x 6	10 x 6	9 x 9	10 x 10	10 x 10	10 x 10	11 x 10	10 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	1/2 - 4 PSC	1/2 - 4 - PSC	3/4 - 4 - PSC	1/2 - 4 - PSC	3/4 - 4 - PSC
High Fire Temperature Rise Range(F)	25 - 55	25 - 55	25 - 55	30 - 60	40 - 70	40 - 70	35 - 65	50 - 80	45 - 75
Low Fire Temperature Rise Range(F)	25 - 55	25 - 55	20 - 50	25 - 55	25 - 55	25 - 55	25 - 55	30 - 60	35 - 65

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.

IDENTIFICATION CODE



VENTING

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

Model Number MGF1T(A,K)	Min. Pipe Size	Reducer Needed	Flue Outlet (in.)	Max. # Elbows	Max. Ft. Vent Pipe
072(-)-12B	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
096(-)-20B	3"	4" to 3"	4	4	35

ELECTRICAL DATA

Furnace Model Number *TA,*TK	Furnace Input (Btu/hr)	Cabinet Width (in.)	Nominal Electrical Supply	Maximum Operating Voltage	Minimum Operating Voltage	Maximum Furnace Amperes	Minimum Wire Gauge	Maximum Fuse or Circuit Breaker Amps**
060(+)-08A	60,000	14.25	115-60-1	127	103	7.1	14	15
060(+)-12A	60,000	14.25	115-60-1	127	103	7.1	14	15
072(+)-12B	72,000	19.75	115-60-1	127	103	7.1	14	15
072(+)-16B	72,000	19.75	115-60-1	127	103	9.0	14	15
096(+)-12B	96,000	19.75	115-60-1	127	103	7.1	14	15
096(+)-16B	96,000	19.75	115-60-1	127	103	9.0	14	15
096(+)-20B	96,000	19.75	115-60-1	127	103	14.5	12	20
120(+)-16B	120,000	19.75	115-60-1	127	103	9.0	14	15
120(+)-20B	120,000	19.75	115-60-1	127	103	14.5	12	20
120(+)-16C	120,000	22.50	115-60-1	127	103	9.0	14	15
120(+)-20C	120,000	22.50	115-60-1	127	103	12.2	12	20

Note: (+) can be C or N.

**Time-delay fuses or HACR-type circuit breakers are required.

ACCESSORIES

Kit	Order Number
U.S. LP Conversion Kit (0 to 10,000 ft.)	904404
Canadian LP Gas Conversion Kit (0 to 4,500 ft.)	904405
Fossil Fuel Kit	914762
Side Return Filter Kit	541036
Bottom Return Filter (20/Box)	A Cabinet 903088 B Cabinet 903089 C Cabinet 903090
Internal Side Return Filter Wire	903152
Counterflow "A" Combustion Floor Base	902974
Counterflow "B" Combustion Floor Base	902677
Counterflow "C" Combustion Floor Base	904108

CAPACITIES — Furnace Airflow Data

80+ UPFLOW/HORIZONTAL FURNACE MODELS

Model Number *TA	Heating Input (Btuh)	Motor Speed	Motor HP	External Static Pressure (Inches 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	CFM	Rise														
060-08A	60,000	High† Med* Low**	1/3	1360	34/21	1345	33/22	1310	32/22	1260	35/23	1205	37/24	1155	39/25	1095	40/27	1030	43/28	970	55/37	785	56/38	760	58/39	750	59/40	720	61/41	685	65/43	655	68/45	610	73/48
060-12A	60,000	High† Med* Low**	1/3	1360	34/21	1345	33/22	1310	32/22	1260	35/23	1205	37/24	1155	39/25	1095	40/27	1030	43/28	970	55/37	785	56/38	760	58/39	750	59/40	720	61/41	685	65/43	655	68/45	610	73/48
072-12B	72,000	High† Med* Low**	1/3	1645	32/21	1575	34/22	1490	36/24	1395	40/23	1305	41/27	1230	43/30	1030	52/35	815	64/43	1410	38/25	1350	39/26	1280	42/28	1215	44/29	1130	47/32	1010	53/35	845	63/42	680	78/52
072-16B	72,000	High† Med-High Med-Low* Low**	1/2	1870	28/18	1845	29/19	1790	30/20	1735	31/20	1665	32/21	1580	33/22	1500	35/23	1400	38/25	1480	36/24	1450	37/24	1420	38/25	1380	39/26	1325	40/27	1265	42/28	1190	45/30	1075	50/33
096-12B	96,000	High† Med* Low**	1/3	1495	50/30	1430	52/31	1360	55/32	1275	58/35	1210	61/37	1090	68/40	925	80/48	740	-/60	1390	53/32	1375	54/32	1330	55/33	1290	56/34	1245	57/35	1200	59/37	1110	66/40	970	76/46
096-16B	96,000	High† Med-High Med-Low* Low**	1/2	1935	38/23	1895	39/24	1835	40/24	1775	42/25	1715	43/26	1640	45/28	1555	47/30	1440	51/31	1660	44/27	1635	45/27	1600	46/28	1565	47/28	1525	49/29	1465	50/30	1400	53/32	1335	55/33
096-20B	96,000	High† Med-High Med-Low* Low**	3/4	2310	31/18	2255	32/19	2205	33/20	2155	34/20	2070	35/21	2015	35/22	1920	36/23	1840	40/24	2040	36/21	2010	37/22	1960	38/23	1900	39/24	1875	40/25	1815	41/25	1755	42/26	1650	45/27
120-16C	120,000	High† Med-High Med-Low* Low**	1/2	1980	45/27	1945	45/28	1910	46/28	1860	48/29	1795	50/30	1720	52/31	1640	54/33	1545	58/35	1675	52/31	1665	53/32	1640	54/32	1610	55/33	1565	57/34	1515	59/35	1460	61/37	1375	64/39
120-20C	120,000	High† Med-High Med-Low* Low**	3/4	2400	37/22	2360	37/23	2310	38/24	2255	40/24	2200	41/24	2140	42/25	2070	43/26	1990	45/27	2105	41/25	2095	42/25	2075	43/25	2060	43/26	2015	44/27	1960	45/27	1910	46/28	1845	49/29
				1750	51/31	1745	51/31	1740	52/31	1720	52/31	1710	52/31	1680	53/32	1645	54/32	1600	56/33	1520	59/33	1515	59/33	1510	60/34	1500	60/35	1490	61/36	1475	61/37	1450	61/37	1425	62/38

NOTES:

- † = Factory Set Cooling
 - * = Factory Set High Fire Heating
 - ** = Factory Set Low Fire Heating
 - = Not Factory Recommended
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.
 4. Temperature rise is displayed as High Fire/Low Fire

CAPACITIES — Furnace Airflow Data

80+ DOWNFLOW FURNACE MODELS

Model Number *TK	Heating Input (Btuh)	Motor Speed	Motor HP	External Static Pressure (Inches 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	CFM	Rise								
060-08A	60,000	High† Med* Low**	1/3	1420	31/20	1380	32/21	1340	33/22	1300	34/23	1235	36/24	1185	37/25	1110	40/26	1045	42/28	960	46/31	885	50/34	810	54/36	745	59/40	665	67/45
060-12A	60,000	High† Med* Low**	1/3	1420	31/20	1380	32/21	1340	33/22	1300	34/23	1235	36/24	1185	37/25	1110	40/26	1045	42/28	960	46/31	885	50/34	810	54/36	745	59/40	665	67/45
072-12B	72,000	High† Med* Low**	1/3	1655	32/21	1580	34/22	1500	35/24	1440	37/24	1355	40/26	1260	42/28	1155	46/31	1070	50/34	980	54/36	895	58/38	815	62/41	735	67/45	655	76/54
072-16B	72,000	High† Med-High Med-Low* Low**	1/2	1680	32/21	1650	32/21	1625	33/22	1600	33/22	1560	34/23	1505	35/23	1420	37/25	1330	40/27	1245	43/29	1160	46/31	1075	49/33	990	52/35	910	57/47
096-12B	96,000	High† Med-High Med-Low* Low**	1/2	1950	38/33	1885	39/23	1815	40/24	1765	42/25	1685	44/26	1600	46/27	1535	48/29	1425	52/31	1330	55/33	1245	60/36	1150	64/38	1070	69/42	990	76/64
096-16B	96,000	High† Med-High* Med-Low** Low	1/2	1700	43/25	1665	44/26	1630	45/27	1580	47/28	1540	48/27	1475	50/30	1410	52/32	1330	55/33	1245	60/36	1150	64/38	1070	69/42	990	76/64	910	84/72
096-20B	96,000	High† Med-High Med-Low* Low**	3/4	2100	35/20	2070	36/21	2010	37/22	1945	38/23	1905	39/23	1840	40/24	1790	41/25	1710	43/26	1625	46/31	1540	50/34	1455	55/33	1370	60/36	1290	67/54
120-16B	120,000	High† Med-High Med-Low* Low**	1/2	1950	46/27	1885	47/28	1815	48/29	1765	50/30	1685	53/31	1600	55/33	1535	58/35	1425	62/38	1330	67/40	1245	72/43	1150	77/46	1070	83/49	990	90/78
120-20B	120,000	High† Med-High Med-Low* Low**	3/4	2100	42/25	2070	43/26	2010	44/26	1945	46/27	1905	47/28	1840	48/29	1790	49/30	1710	52/31	1625	50/34	1540	57/47	1455	62/41	1370	69/42	1290	76/64

NOTES:

- † = Factory Set Cooling
 - * = Factory Set High Fire Heating
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 - = Not Factory Recommended
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.
 4. Temperature rise is displayed as High Fire/Low Fire



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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