

MAYTAG®

TECHNICAL SPECIFICATIONS

Model MGC3SD Series



M120 Product Line

**High Efficiency, Upflow/Horizontal Ultra-Low NOx Gas Furnace
95% AFUE Input 50,000-100,000 Btuh**

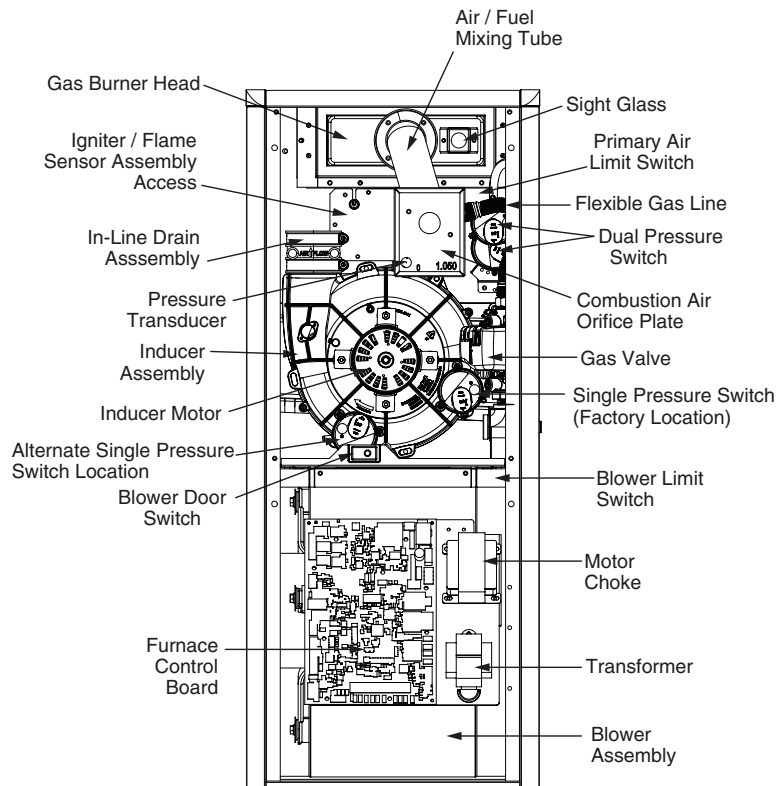
This furnace series is approved and certified by the SCAQMD and the SJVAPC Districts in the state of California with NOx levels below 14Ng/J when operating on natural gas.

The high efficiency gas furnace may be installed free standing in a utility room, basement, or enclosed in an alcove or closet. The rounded corner jacket provides a pleasing “appliance appearance.” Design certified by UL for application in the United States.

Features and Benefits

- Ultra-low emissions: 65% less NOx than standard furnaces.
- 100% fired and tested: All units and each component are tested on the manufacturing line.
- Best packaging in the industry: Unique corner post design assures product will arrive to the homeowner dent free.
- Low Boy Height: Easy to apply in low ceiling applications, works well with taller high SEER coils, easier to handle and install.
- Tubular primary heat exchanger: Heavy gauge aluminized steel heat exchanger and stainless steel secondary heat exchanger assures a long life.
- 25 second heat mode blower delay at start-up: Assures a warm duct temperature at furnace start-up. Adjustable blower off settings (60, 100, 140 and 180 seconds).
- 30 second post purge: Increases life of heat exchanger.
- Hot surface igniter: Innovative application of a silicon nitride igniter.
- Color coded wire harness: Designed to fit the components, all with quick-connect fittings for ease of service and replacement.
- High static blowers: All models equipped with 9-speed high static blowers.
- 45-second cooling cycle blower-off delay (TDR): Increases cooling performance when matched with a Nordyne coil.
- Flexible category IV venting system: May be vertically or horizontally vented using either a one-pipe or two-pipe system for maximum flexibility in installation.
- High efficiency blower assemblies: Maximize efficiencies and provide better temperature control, humidity control and air distribution.
- Multi-speed direct drive blower: Energy-efficient, brushless DC (ECM). Designed to give a wide range of cooling capacities.
- 7-segment LED diagnostic for easy troubleshooting: Easy-to-read display provides simple fault code recognition.
- Integrated control board: Incorporates connections for electronic air cleaner and humidifier. Ergonomically located for ease of service.
- Two piece door design: Enhances furnace appearance and uses captured screws to prevent losing door screws.
- Furnace Air Leakage: These furnaces comply with Energy Star cabinet air leakage requirement of less than or equal to 2%. Keep the conditioned air flowing to where it's needed.

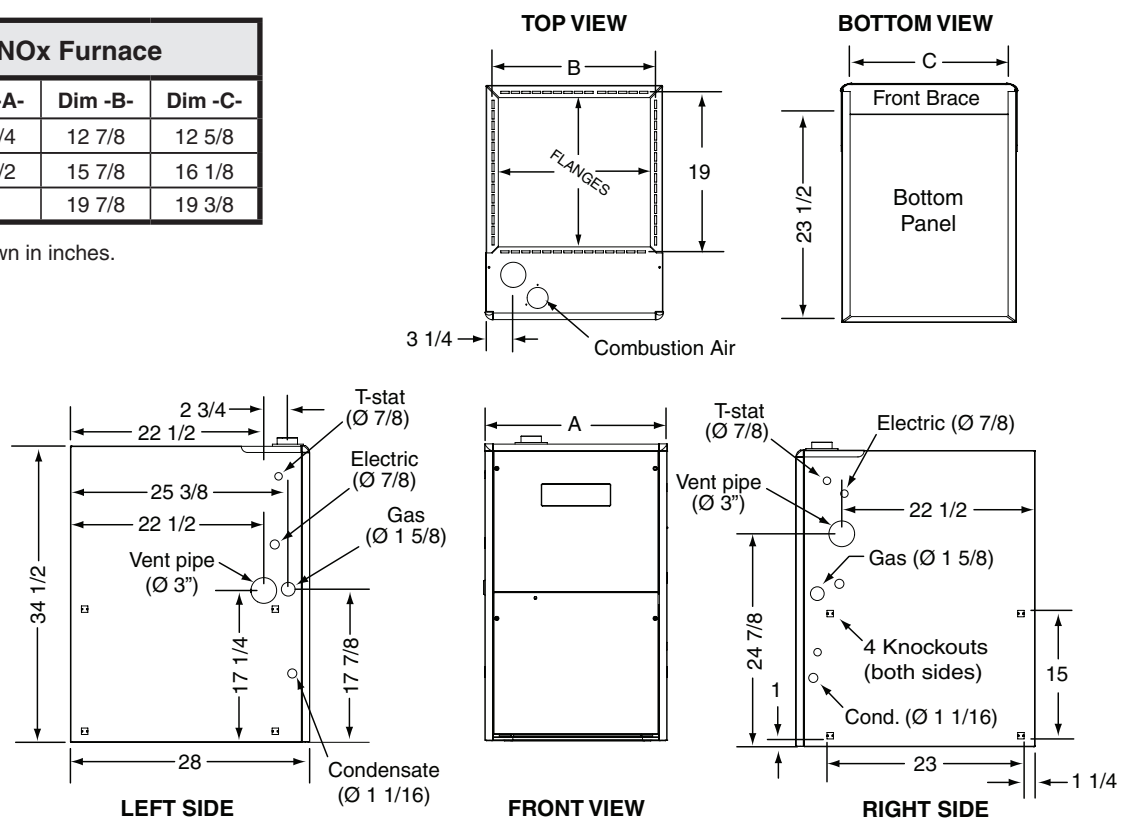
COMPONENTS



DIMENSIONS

Ultra-Low NOx Furnace			
Model #'s	Dim -A-	Dim -B-	Dim -C-
050U	14 1/4	12 7/8	12 5/8
070U	17 1/2	15 7/8	16 1/8
100U	21	19 7/8	19 3/8

NOTE: Dimensions shown in inches.



IDENTIFICATION CODE

MGC 3 S D 100 U T 35 C 1 P											
Maytag Gas Compact									Powder Painted		
Design Series									Revision		
S = Single Stage									Cabinet Width		
T = Two Stage									A = 14.25		
M = Modulating									B = 17.50		
A = 80% Upflow/Horizontal									C = 21.00		
C = 92.1% / 95.1% Upflow/Horizontal									D = 24.50		
K = 80% Downflow									Cooling Airflow		
L = 92.1% / 95.1% Downflow									23 = 2-3 Tons		
D = 95.0 Single Stage Upflow/Horizontal									24 = 2-4 Tons		
M = 95.0 Single Stage Downflow									35 = 3-5 Tons		
									45 = 4-5 Tons		
Input Heating Capacity									Motor Technology		
050 = 50,000									V = VSHE		
070 = 70,000									E = FSHE		
100 = 100,000									T = 9 Tap ECM		

AIRFLOW DATA

HEATING AIRFLOW (CFM) & TEMPERATURE RISE (°F)												
MODEL NAME/ HEATING INPUT MGC3SD	RETURN AIR VIA:	MOTOR SPEED	EXTERNAL STATIC PRESSURE (IN. W.C.)									
			0.1		0.2		0.3		0.4		0.5	
			CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE
-050U-T23A* 50,000 BTU/h Input 48,000 BTU/h Output	Bottom	Tap 9										
		Tap 8										
		Tap 7										
		Tap 6*										
		Tap 5**	970	45	935	47	915	48	880	50	845	52
		Tap 4	875	50	835	53	810	54	770	57	735	60
		Tap 3	835	53	795	55	765	57				
		Tap 2										
		Tap 1***										
	Side	Tap 9										
		Tap 8										
		Tap 7										
		Tap 6*										
		Tap 5**	935	47	915	48	880	50	845	52	805	55
		Tap 4	850	52	815	54	780	56	745	59		
		Tap 3	815	54	775	57	740	59				
		Tap 2										
		Tap 1***										

COOLING AIRFLOW (CFM)										
MODEL NAME/ HEATING INPUT MGC3SD	RETURN AIR VIA:	MOTOR SPEED	EXTERNAL STATIC PRESSURE (IN. W.C.)							
			0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
			CFM	CFM	CFM	CFM	CFM	(CFM)	(CFM)	(CFM)
-050U-T23A* 50,000 BTU/h Input 48,000 BTU/h Output	Bottom Only	Tap 9	1,420	1,395	1,360	1,330	1,300	1,280	1,245	1,220
		Tap 8	1,310	1,270	1,245	1,215	1,180	1,145	1,120	1,095
		Tap 7	1,180	1,145	1,115	1,085	1,050	1,020	990	955
		Tap 6*	1,085	1,050	1,015	985	950	920	890	855
		Tap 5**	970	935	915	880	845	810	780	745
		Tap 4	875	835	810	770	735	700	665	630
		Tap 3	835	795	765	725	690	655	615	580
		Tap 2	650	590	560	520	465	430	380	340
		Tap 1***	550	485	450	405	330	290	250	195
	Left Side Only Motor	Tap 9	1,410	1,380	1,350	1,315	1,285	1,255	1,225	1,200
		Tap 8	1,290	1,260	1,230	1,195	1,160	1,135	1,100	1,070
		Tap 7	1,145	1,115	1,090	1,055	1,030	995	960	920
		Tap 6*	1,045	1,015	980	950	920	885	855	825
		Tap 5**	935	915	880	845	805	775	745	695
		Tap 4	850	815	780	745	715	665	625	585
		Tap 3	815	775	740	700	675	620	575	540
		Tap 2	605	575	530	495	445	390	325	235
		Tap 1***	495	470	410	365	320	260	160	

NOTES:

1. To comply with government mandated efficiency standards, two openings are required for airflows above 1,600 CFM.
2. Data is shown without filter.
3. Temperature rises in the table are approximate. Actual temperature rises may vary.
4. Individual cells shaded in gray indicate a temperature rise outside of the recommended range.
5. To comply with government mandated efficiency standards, speed settings shaded in gray are not allowed in HEAT mode.
6. The "***" denotes the factory COOL setting, "****" denotes the factory HEAT setting, and "*****" denotes factory FAN setting. If the Alternate speed is to be used, the speed tap must be adjusted at the blower motor plug.

AIRFLOW DATA (CONTINUED)

HEATING AIRFLOW (CFM) & TEMPERATURE RISE (°F)												
MODEL NAME/ HEATING INPUT MGC3SD	RETURN AIR VIA:	MOTOR SPEED TAP	EXTERNAL STATIC PRESSURE (IN. W.C.)									
			0.1		0.2		0.3		0.4		0.5	
			CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE
-070U-T24B* 70,000 BTU/h Input 67,000 BTU/h Output	Bottom Only	9										
		8										
		7										
		6 **	1,460	42	1,430	43	1,385	45	1,345	46	1,300	48
		5 *	1,380	45	1,330	47	1,285	48	1,240	50	1,200	52
		4	1,065	58								
		3										
		2										
		1 ***										
	Side Only	9										
		8										
		7										
		6 **	1,440	43	1,400	44	1,360	46	1,315	47	1,270	49
		5 *	1,340	46	1,295	48	1,255	49	1,215	51	1,170	53
		4										
		3										
		2										
		1 ***										
	Side + Bottom	9										
		8										
		7										
		6 **	1,460	42	1,415	44	1,375	45	1,330	47	1,290	48
		5 *	1,400	44	1,355	46	1,310	47	1,270	49	1,225	51
		4	1,065	58								
		3										
		2										
		1 ***										

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6. The "*" denotes the factory (default) COOL setting, "***" denotes the factory (default) HEAT setting, and "****" denotes the factory (default) FAN setting. If an alternate speed is to be used, refer to the installation instructions for Speed Tap Selection.

AIRFLOW DATA (CONTINUED)

COOLING AIRFLOW (CFM)										
MODEL NAME/ HEATING INPUT MGC3SD	RETURN AIR VIA:	MOTOR SPEED TAP	EXTERNAL STATIC PRESSURE (IN. W.C.)							
			0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
			CFM	CFM	CFM	CFM	CFM	(CFM)	(CFM)	(CFM)
-070U-T24B* 70,000 BTUH/h Input 67,000 BTUH/h Output	Bottom Only	9	1,775	1,745	1,705	1,660	1,620	1,580	1,540	1,500
		8	1,640	1,605	1,560	1,525	1,485	1,440	1,400	1,350
		7	1,565	1,525	1,480	1,440	1,390	1,355	1,310	1,260
		6 **	1,460	1,430	1,385	1,345	1,300	1,260	1,215	1,175
		5 *	1,380	1,330	1,285	1,240	1,200	1,150	1,110	1,065
		4	1,065	1,015	965	920	870	815	755	700
		3	860	770	735	670	610	560	490	460
		2	625	550	490	435	365			
		1 ***	660	610	550	460	430	360		
	Side Only	9	1,715	1,710	1,675	1,640	1,600	1,565	1,525	1,480
		8	1,600	1,565	1,530	1,490	1,445	1,410	1,370	1,320
		7	1,515	1,480	1,440	1,405	1,360	1,320	1,275	1,230
		6 **	1,440	1,400	1,360	1,315	1,270	1,230	1,180	1,130
		5 *	1,340	1,295	1,255	1,215	1,170	1,120	1,070	1,020
		4	1,025	980	925	875	820	780	740	680
		3	830	760	700	650	595	525	495	465
		2	585	530	490	420	370			
		1 ***	695	600	565	470	400	385		
	Bottom + Side	9	1,820	1,785	1,745	1,710	1,665	1,625	1,585	1,540
		8	1,675	1,640	1,600	1,550	1,515	1,480	1,435	1,390
		7	1,585	1,545	1,500	1,460	1,420	1,380	1,340	1,295
		6 **	1,460	1,415	1,375	1,330	1,290	1,245	1,205	1,160
		5 *	1,400	1,355	1,310	1,270	1,225	1,180	1,135	1,090
		4	1,065	1,010	965	915	850	810	755	710
		3	860	790	735	680	625	550	500	460
		2	650	550	500	435	390			
		1 ***	680	600	550	480	420	390		

NOTES:

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6. The "" denotes the factory (default) COOL setting, """" denotes the factory (default) HEAT setting, and """""" denotes the factory (default) FAN setting. If an alternate speed is to be used, refer to the installation instructions for Speed Tap Selection.

AIRFLOW DATA (CONTINUED)

HEATING AIRFLOW (CFM) & TEMPERATURE RISE (°F)												
MODEL NAME/ HEATING INPUT MGC3SD	RETURN AIR VIA:	MOTOR SPEED TAP	EXTERNAL STATIC PRESSURE (IN. W.C.)									
			0.1		0.2		0.3		0.4		0.5	
			CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE
-100U-T35C* 100,000 BTU/h Input 95,000 BTU/h Output	Bottom Only	9	---	---	---	---	---	---	---	---	---	---
		8	---	---	---	---	---	---	---	---	---	---
		7	---	---	---	---	---	---	---	---	---	---
		6 *	1,850	48	1,790	49	1,745	50	1,700	52	1,650	53
		5 **	1,745	50	1,690	52	1,645	53	1,590	55	1,535	57
		4	1,480	59	1,420	62	1,360	65				
		3										
		2										
		1 ***										
	Side Only	9	---	---	---	---	---	---	---	---	---	---
		8	---	---	---	---	---	---	---	---	---	---
		7	---	---	---	---	---	---	---	---	---	---
		6 *	1,785	49	1,740	51	1,690	52	1,640	54	1,590	55
		5 **	1,690	52	1,640	54	1,595	55	1,540	57	1,490	59
		4	1,435	61	1,375	64	1,300					
		3										
		2										
		1 ***										
	Side + Bottom	9	---	---	---	---	---	---	---	---	---	---
		8	---	---	---	---	---	---	---	---	---	---
		7	---	---	---	---	---	---	---	---	---	---
		6 *	1,865	47	1,810	49	1,755	50	1,695	52	1,645	53
		5 **	1,760	50	1,705	52	1,655	53	1,595	55	1,535	57
		4	1,495	59	1,430	62	1,365	64				
		3										
		2										
		1 ***										

NOTES:

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2. Data is shown without filter.
3. Temperature rises in the table are approximate. Actual temperature rises may vary.
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AIRFLOW DATA (CONTINUED)

COOLING AIRFLOW (CFM)										
MODEL NAME/ HEATING INPUT MGC3SD	RETURN AIR VIA:	MOTOR SPEED TAP	EXTERNAL STATIC PRESSURE (IN. W.C.)							
			0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
			CFM	CFM	CFM	CFM	CFM	(CFM)	(CFM)	(CFM)
-100U-T35C* 100,000 BTUH/h Input 95,000 BTU/h Output	Bottom Only	9	2,250	2,250	2,190	2,130	2,080	2,025	1,975	1,915
		8	2,055	2,010	1,970	1,900	1,840	1,790	1,730	1,675
		7	1,900	1,845	1,795	1,750	1,700	1,650	1,575	1,520
		6 *	1,850	1,790	1,745	1,700	1,650	1,595	1,535	1,470
		5 **	1,745	1,690	1,645	1,590	1,535	1,485	1,420	1,365
		4	1,480	1,420	1,360	1,300	1,230	1,165	1,110	1,055
		3	1,315	1,245	1,170	1,100	1,025	975	915	860
		2	1,140	1,055	975	890	820	765	705	660
		1 ***	1,025	920	830	745	690	625	580	500
	Side Only	9	2,155	2,110	2,075	2,020	1,975	1,965	1,950	1,900
		8	1,980	1,940	1,890	1,850	1,805	1,760	1,710	1,650
		7	1,835	1,785	1,740	1,685	1,635	1,585	1,545	1,495
		6 *	1,785	1,740	1,690	1,640	1,590	1,540	1,490	1,440
		5 **	1,690	1,640	1,595	1,540	1,490	1,440	1,390	1,340
		4	1,435	1,375	1,300	1,250	1,195	1,140	1,080	1,020
		3	1,265	1,190	1,140	1,070	1,005	935	875	815
		2	1,095	1,015	945	870	790	715	665	615
		1 ***	980	905	835	740	665	590	525	440
	Bottom + Side	9	2,245	2,195	2,155	2,095	2,065	2,070	2,015	1,950
		8	2,080	2,030	1,980	1,930	1,880	1,820	1,765	1,705
		7	1,915	1,875	1,820	1,765	1,715	1,655	1,600	1,535
		6 *	1,865	1,810	1,755	1,695	1,645	1,585	1,530	1,485
		5 **	1,760	1,705	1,655	1,595	1,535	1,480	1,430	1,370
		4	1,495	1,430	1,365	1,290	1,235	1,170	1,115	1,065
		3	1,325	1,245	1,175	1,095	1,035	970	910	855
		2	1,175	1,065	965	900	810	775	705	635
		1 ***	1,040	930	850	750	680	610	560	475

NOTES:

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MAYTAG®

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