

# TECHNICAL SPECIFICATIONS



# 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.
- **60 second cooling cycle blower-off delay (TDR):** Increases cooling performance when matched with a Nortek Global HVAC 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:** 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.
- **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



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# **IDENTIFICATION CODE**

MGC 3 S D Maytag Gas Compact	100 U T	T 35 C	1 P	—— Powder Painted
Design Series				—— Revision
S = Single Stage T = Two Stage M = Modulating A = 80% Upflow/Horizontal C = 92.1% / 95.1% Upflow/Horizontal K = 80% Downflow L = 92.1% / 95.1% Downflow D = 95.0 Single Stage Upflow/Horizontal M = 95.0 Single Stage Downflow				Cabinet Width $A = 14.25$ $B = 17.50$ $C = 21.00$ $D = 24.50$ Cooling Airflow $23 = 2-3$ Tons $24 = 2-4$ Tons $35 = 3-5$ Tons $45 = 4-5$ Tons
Input Heating Capacity 050 = 50,000 100 = 100,000		0 Ng/J or less N0 Ng/J or less N0x		Motor Technology V = VSHE E = FSHE T= 9 Tap ECM

# SPECIFICATIONS

MGC3SD MODEL NUMBERS:	-050U-T23A1	-100U-T35C1
Input - Btuh (a)	50,000	100,000
Heating Capacity - Btuh	48,000	95,000
AFUE%	95	95
Motor H.P Speed - Type	3/4 - 9 - ECM	1 - 9 - ECM
Motor FLA	8.4	11
Rated Ext. SP - In. W.C.	0.5	0.5
Temperature Rise Range - °F	30-60	35-65
Shipping Weights	115lbs	153lbs
NOx	<14ng/J	<14ng/J

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# **BLOWER PERFORMANCE MGC3SD**

	Heating Airflow (CFM) & Temperature Rise (°F)												
			External Static Pressure (Inches Water Column)										
Model Name/ Heating Input	Return Air Via:	Motor Speed	0	.1	0.2		0.3		0.4		0.5		
		Тар	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	
		9											
		8											
		7											
		6*											
	Bottom Only	5**	970	45	935	47	915	48	880	50	845	52	
		4	875	50	835	53	810	54	770	57	735	60	
		3	835	53	795	55	765	57					
-050U-T23A*		2											
50,000 Btuh Input		1***											
48,000		9											
Btuh Output		8											
	Side Only	7											
		6*											
		5**	935	47	915	48	880	50	845	52	805	55	
		4	850	52	815	54	780	56	745	59			
		3	815	54	775	57	740	59					
		2											
		1***											

Cooling Airflow (CFM)													
		Motor	External Static Pressure (Inches Water Column)										
Model Name/ Heating Input	Return Air Via:	Speed	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8			
		Тар	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM			
		9	1,420	1,395	1,360	1,330	1,300	1,280	1,245	1,220			
		8	1,310	1,270	1,245	1,215	1,180	1,145	1,120	1,095			
		7	1,180	1,145	1,115	1,085	1,050	1,020	990	955			
		6*	1,085	1,050	1,015	985	950	920	890	855			
	Bottom Only	5**	970	935	915	880	845	810	780	745			
		4	875	835	810	770	735	700	665	630			
		3	835	795	765	725	690	655	615	580			
-050U-T23A*		2	650	590	560	520	465	430	380	340			
50,000 Btuh		1***	550	485	450	405	330	290	250	195			
Input 48,000 Btuh		9	1,410	1,380	1,350	1,315	1,285	1,255	1,225	1,200			
Output		8	1,290	1,260	1,230	1,195	1,160	1,135	1,100	1,070			
		7	1,145	1,115	1,090	1,055	1,030	995	960	920			
		6*	1,045	1,015	980	950	920	885	855	825			
	Side Only	5**	935	915	880	845	805	775	745	695			
		4	850	815	780	745	715	665	625	585			
		3	815	775	740	700	675	620	575	540			
		2	605	575	530	495	445	390	325	235			
		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.

Data is shown without inter.
 Temperature rises in the table are approximate. Actual temperature rises may vary.
 Individual cells shaded in gray indicate a temperature rise outside of the recommended range.
 To comply with government mandated efficiency standards, speed settings shaded in gray are not allowed in HEAT mode.
 Factory COOL setting, \*\* Factory HEAT setting, \*\*\* Factory FAN setting.
 If the alternate speed is to be used, the speed tap must be adjusted at the blower motor plug.

# **BLOWER PERFORMANCE MGC3SD (CONTINUED)**

Heating Airflow (CFM) & Temperature Rise (°F)													
		Motor	External Static Pressure (Inches Water Column)										
Model Name/ Return Air Heating Input Via:	Speed	0	.1	0.2		0.3		0.4		0.5			
······8 ···F ···	rieaung input Via:	Тар	CFM	Rise	CFM	Rise	CFM	CFM	CFM	CFM	CFM	CFM	
		9											
		8											
		7											
		6 *	1,850	48	1,790	49	1,745	50	1,700	52	1,650	53	
	Bottom Only	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 ***											
		9											
		8											
		7											
-100U-T35C* 100,000		6 *	1,785	49	1,740	51	1,690	52	1,640	54	1,590	55	
Btuh Input 95,000	Side Only	5 **	1,690	52	1,640	54	1,595	55	1,540	57	1,490	59	
Btuh Output		4	1,435	61	1,375	64							
		3											
		2											
		1 ***											
		9											
		8											
		7											
		6*	1,865	47	1,810	49	1,755	50	1,695	52	1,645	53	
	Botton + Side	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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 Temperature rises in the table are approximate. Actual temperature rises may vary.
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 \* Factory COOL setting, \*\* Factory HEAT setting, and \*\*\* Factory FAN setting.
 If the alternate speed is to be used, refer to the installation instructions for Speed Tap Selection.

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# **BLOWER PERFORMANCE MGC3SD (CONTINUED)**

Cooling Airflow (CFM)										
		Motor		Exter	nal Static	Pressure	(Inches \	Vater Co	lumn)	
Model Name/ Heating Input	Return Air Via:	Speed	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
freating input	, in the second se	Тар	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM
		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
	Bottom Only	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
-100U-T35C* 100,000		6 *	1,785	1,740	1,690	1,640	1,590	1,540	1,490	1,440
Btuh Input		5 **	1,690	1,640	1,595	1,540	1,490	1,440	1,390	1,340
95,000 Btuh Output		4	1,435	1,375	1,300	1,250	1,195	1,140	1,080	1,020
bian o'aipar		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
		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
	Botton + Side	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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## ACCESSORIES

MGC3SD KITS						
Description SKU						
Side return filter kit	541036					



#### MAYTAG

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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