

ComfortStar®

Air conditioning and Heating
Residential Product Line

Comfort it's in our name

GAS FURNACE 96%



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FEATURES:

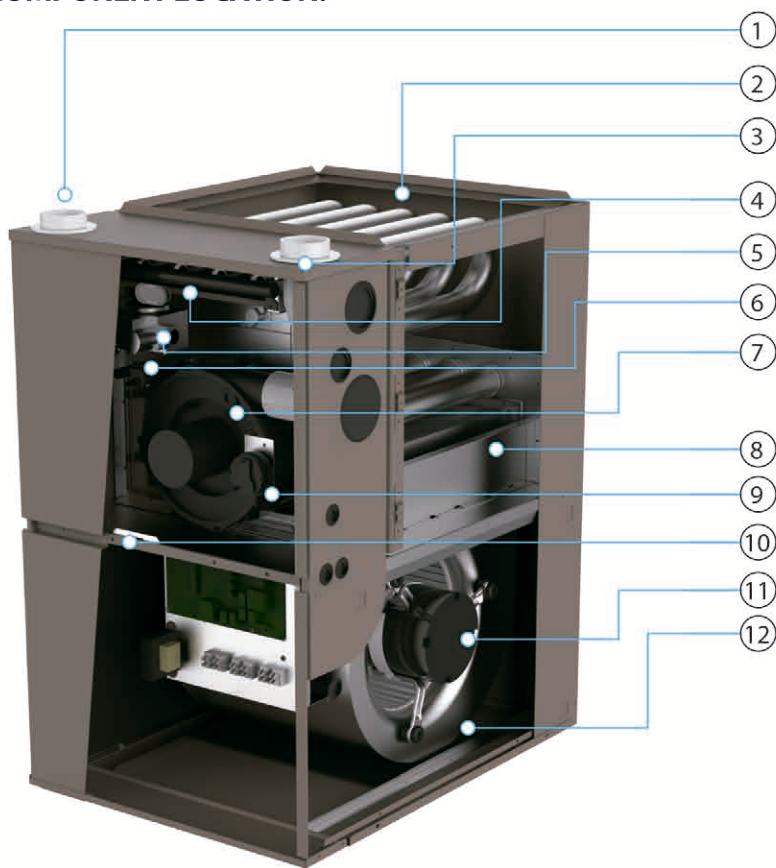
- Durable aluminized steel tubular heat exchanger.
- Stainless-steel secondary heat exchanger.
- Two-stage gas valve.
- Hot surface igniter.
- Quiet multi-speed ECM circulator blower motor.
- Control board with self-diagnostics and Low-voltage terminal block.
- Natural gas and propane (LP) convertible.
- Designed for multi-position installation: Upflow, horizontal.
- Industry-standard cabinet sizes for easy replacement, installation and add-on cooling.
- Convenient left or right connection for gas and electric service.
- Removable bottom for side or bottom return applications.





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COMPONENT LOCATION:



1. Air inlet pipe joint
2. First heat exchanger
3. Air outlet pipe joint
4. Burner
5. Gas valve
6. Condensate pan
7. Induced blower and motor
8. Second heat exchanger
9. Pressure switch
10. Blower door interlock switch
11. ECM motor of circulator blower



SPECIFICATIONS

MODEL (MGH93M)	060B3B	080B3B	080C4B	100C5B	100D5B	120D5B
Conguration	Upow / horizontal flow (left-right)					
Heating Eciency(AFUE)	96%					
Dimensions (H×W×D)(in.)	28-1/2×17-1/2×33-3/4		28-1/2×21×33-3/4		28-1/2×24-1/2×33-3/4	
Net/Gross Weight(lbs)	135.5/147.5	141/153	156/169.6	162/173	169.6/181.7	174/186



96% AFUE Gas Furnace Technical Specifications

Basic Product Information	Model			96CG060B3	96CG080B3	96CG080C4	96CG100C5	96CG100D5	96CG120D5
	Fuel Type			Natural Gas/ Propane Gas	Natural Gas/ Propane Gas	Natural Gas/ Propane Gas	Natural Gas/ Propane Gas	Natural Gas/ Propane Gas	Natural Gas/ Propane Gas
Gas Heating Performance	AFUE		%	96	96	96	96	96	96
	Input	NG/LP(HIGH)	Btu/h	60000	80000	80000	10000	10000	120000
		NG/LP(LOW)	Btu/h	39000	52000	52000	6500	6500	78000
	Output	NG/LP(HIGH)	Btu/h	57000	76000	76000	95000	95000	115000
		NG/LP(LOW)	Btu/h	16701	22268	22268	27835	27835	33695
	Air Temperature Rise		°F	30-60	35-65	35-65	35-65	35-65	40-70
Static Pressure	Design Max. Outlet Air Temperature		°F	160	165	165	165	165	170
	Certified EXT static pressure								
Circulating Blower Data	Circulating Blower	Heating	in. WC	0.12	0.15	0.15	0.2	0.2	0.2
		Cooling	in. WC	0.5	0.5	0.5	0.5	0.5	0.5
		Material	-	Metal					
		Type	-	x13 ECM					
	Diameter blower wheel	Inch		12 3/8			12 6/8		
		Inch		8			11 1/4		
	Tons AC @ 0.5" ESP		tons	1.5/2/2.5/3	1.5/2/2.5/3	2.5/3/3.5/4	3.5/4/4.5/5	3.5/4/4.5/5	3.5/4/4.5/5
	Circulating Fan Motor		Motor Horsepower	HP	3/4		1		
	Air Flow (0.5 ESP in. WC)		High	CFM	1280	1271	1312	2031	2095
	Air Flow (0.5 ESP in. WC)		Mid-High	CFM	1100	1071	1092	1836	1889
	Air Flow (0.5 ESP in. WC)		Mid	CFM	910	886	894	1573	1609
	Air Flow (0.5 ESP in. WC)		Mid-Low	CFM	690	649	625	1241	1241
Inducer Motor	Air Flow (0.5 ESP in. WC)		Low	CFM	500	539	455	820	802
	Motor Speeds		# speeds		5				
			settings		High/Mid-High/Mid/Mid-Low/Low				
			r/min		1050 (rated)				
	Power Input		(High)	W			63±10%		
	Power Input		(Low)	W	37±10%			42±10%	
	Max. Inlet Gas Press	Natural Gas	in. WC				10.5		
		Propane Gas (LP)	in. WC				13		
	Min. Inlet Gas Press	Natural Gas	in. WC				4.5		
		Propane Gas (LP)	in. WC				11		
	Natural Gas Manifold Pressure(High fire)		in. WC				3.5		
	Natural Gas Manifold Pressure(Low fire)		in. WC				1.6		
Combustion System Specifications	Propane Gas Manifold Pressure(High fire)		in. WC				10		
	Propane Gas Manifold Pressure(Low fire)		in. WC				4		
	Natural Gas Factory Orifice (0-2000 feet)		#				45		
	Propane Gas (LP) Factory Orifice (0-2000 feet)		#				55		
	Gas Connection Size		in. NPT				1/2		
	Igniton Device		-				Hot surface		
	Number of Burners		#	3	4	4	5	5	6
	Primary Heat exchanger Diameter		Inch				1 6/8		
	Primary Heat exchanger		# tubes	3	4	4	5	5	6
	Secondary Heat Exchanger Diameter		Inch				3/8		
	Secondary Heat Exchanger		# tubes	33	33	39	39	48	48
	Flue Vent Diameter		Inch	2 1/3"	2 1/3"	2 1/3"	2 1/3"	2 1/3"	3"
Safety Switch Settings	Pressure Switch Factory Setting		(High)	in. WC			1.1		
	Pressure Switch Factory Setting		(Low)	in. WC			0.55		
	Rollout switch - resettable		Off/On	°F			300		
	Inlet High Temperature Limit switch- fixed		Off/On	°F	150/120	130/100	150/120	150/120	150/120
Electrical Data	Power supply		V/Hz/PH				115V/60HZ/1PH		
	Max Overcurrent Protection (MOP)		Amps		15			20	
	MAS Unit Amps		Amps	8	8	7.8	11.5	10.5	10.5
Cabinet Size	Cabinet Type		-	B	B	C	C	D	D
	Cabinet Size		Width	Inch	17.5	17.5	21	24.5	24.5
	Cabinet Size (DxH)		(DxH)	Inch	(28-3/4)*(33-3/4)	(28-3/4)*(33-3/4)	(28-3/4)*(33-3/4)	(28-3/4)*(33-3/4)	(28-3/4)*(33-3/4)
Shipping Data	Packing Dimension (without pallet)		(WxDxH)	Inch	(20)*(31)*(35-1/2)	(20)*(31)*(35-1/2)	(23-1/2)*(31)*(35-1/2)	(23-1/2)*(31)*(35-1/2)	(27)*(31)*(35-1/2)
	Packing Dimension (with pallet)		(WxDxH)	Inch	(20)*(31)*(40)	(20)*(31)*(40)	(23-1/2)*(31)*(40)	(23-1/2)*(31)*(40)	(27)*(31)*(40)
	Net Weight (unit only)		lbs	135	141	152	162	169.6	174
	Gross Weight (shipping weight with pallet & packaging)		lbs	162.5	168.5	184.6	194.6	205.1	209.5

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