

ecoer



# ECOER GAS FURNACE

96% AFUE High Efficiency



# Ecoer Furnace

# MGH Series

## Ecoer Furnace Will Warm Your Home

Ecoer launched its first condensing furnace MGH series. It is an ideal solution for heating your home with an AFUE heating efficiency of 96%. Ecoer utilizes multiple technologies to provide its customers a high-quality furnace that saves energy. At Ecoer, we believe it is time for a new era of heating through your furnace.

Ecoer is committed to creating a comfortable home environment. The MGH Series furnace will heat your entire home while providing the warmth your family needs during the winter months.



# Features

- 96% AFUE
- Energy Star Rated
- Two-Stage Design



- Multipoise Design
- 13-ECM Motors
- Flexibility

## Benefits

- High Efficiency:** Up to 96% AFUE heating efficiency that is ENERGY STAR rated.
- Comfortable:** Designed with two-stages to prevent drastic temperature swings and to keep your furnace running longer.
- 3-way multipoise design:** Flexibility in multiple types of installations, available in upflow (right or left return) and horizontal orientations.
- Hassle-free installation:** All furnaces come standard with a natural gas to propane gas conversion kit.
- 2 stage x13 ECM motors:** All Ecoer models operate efficiently and quietly.
- Hot-surface ignition:** Dependable ignition, more reliable performance.
- Durable parts:** Durable aluminized steel tubular heat exchanger and stainless-steel secondary heat exchanger.
- Pairs with Ecoer heat pump:** Achieving up to 18 SEER.
- Compact design:** Low Profile cabinet construction allows for installation in tight spaces. Convenient left or right-hand connection for gas and electric service.
- High-quality cabinet:** The cabinet is painted, galvanized steel with an anti-rust coating, that passes a 500-hour salt spray test.
- LED fault diagnostics:** Quick and easy service calls.

## Why Ecoer

### 96% Efficiency

- Up to 96% AFUE heating efficiency
- ENERGY STAR rated
- Save on your energy bills
- Economical for your family
- High and Low Fire Setting
- Easy Switch



### Flexibility

#### Multiple types of installations

Available in up-flow (right or left return) and horizontal orientations

#### Pairs with Ecoer Heat Pump

Works well with Ecoer products, achieving up to 18 SEER

### Warranty

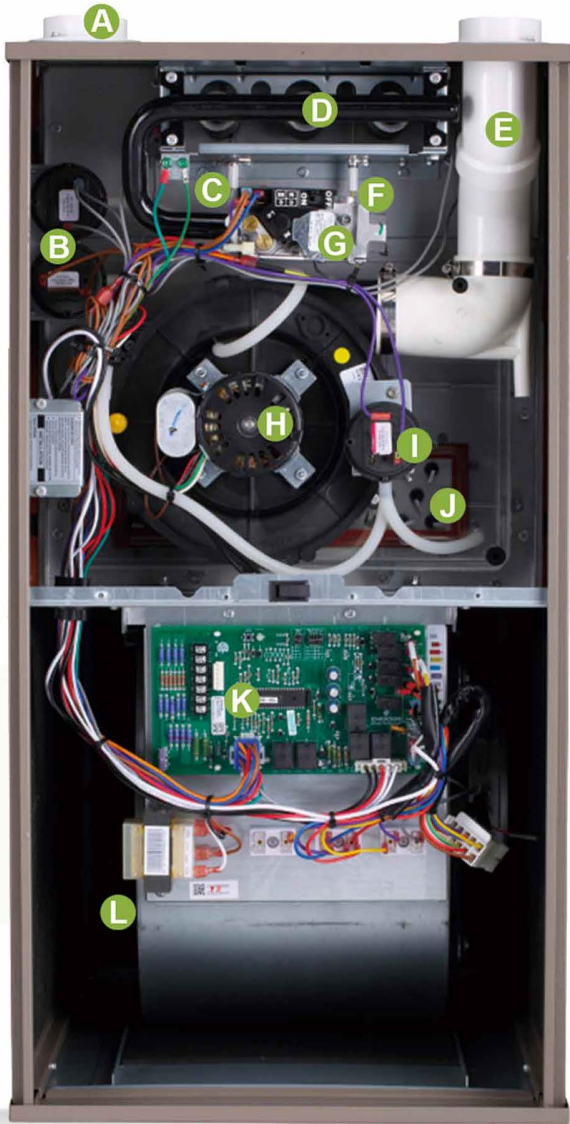
- 5-year parts limited warranty
- 20-year heat exchanger limited warranty



**Note:**

- (1) For full details on the warranty terms and conditions visit [www.ecoer.com](http://www.ecoer.com)
- (2) Required to be qualified for local regulations and HVAC standards

# COMPONENTS



- A** Air Intake
- B** High/Low Fire Pressure Switches
- C** Ignitor
- D** Burners
- E** Flue
- F** Flame Sensor
- G** Gas Valve
- H** Inducer
- I** Condensate Overflow Switch
- J** Secondary Heat Exchanger
- K** Control Board
- L** Blower Motor



Warm Your Home  
with Ecoer Gas Furnace



# Technical Information

Technical Information	Unit	MGH96M060B3A	MGH96M080B3A	MGH96M080C4A	MGH96M100C5A	MGH96M100D5A	MGH96M120D5A	
Cabinet Size(W)	Inch	17.5		21		24.5		
Cabinet Size(D*H)	Inch	(28-1/2)*(33-3/4)						
Gas Type		Natural Gas/Propane Gas						
AFUE	%	96						
Input	NG/LP (High)	Btu/h	60000	80000	80000	100000	100000	120000
	NG/LP (Low)	Btu/h	39000	52000	52000	65000	65000	78000
Output	NG/LP (High)	Btu/h	57000	76000	76000	95000	95000	106500
	NG/LP (Low)	Btu/h	37000	49000	49000	62000	62000	75000
Air Temperature Rise	°F	30-60		35-65			40-70	
Design Max.Outlet Air Temperature	°F	160		165			170	
Certified EXT Static Pressure	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
Tons AC	Tons	1.5/2/2.5/3		2.5/3/3.5/4		3.5/4/4.5/5		
Power supply	V-Ph-Hz	115V/60HZ/1 PH						
Max Overcurrent Protection (MOP)	Amps	15			20			
Blower Motor Full Load	Amps	8	8	7.8	11.5	10.5	10.5	
Circulating Blower Motor	Type		x13 ECM					
	Diameter Blower	Inch	12 3/8		12 3/4			
	Height Blower	Inch	8		11 1/4			
Motor Speeds	Number of speeds	5						
	Speed Settings	High/Mid-High/Mid/Mid-Low/Low						
	RPM	1050 (rated)						
Power Input	(High)	W	63±10%					
	(Low)	W	39±10%		44±10%			
Circulating Fan Motor	Motor Horsepower	HP	3/4		1			
Max.Inlet Gas Pressure	Nature Gas	in.WC	10.5					
	Propane Gas	in.WC	13					
Min.Inlet Gas Pressure	Nature Gas	in.WC	4.5					
	Propane Gas	in.WC	11					
Nature Gas Working Pressure	in.WC	High Fire: 3.5 Low Fire: 1.6						
Propane Gas Working Pressure	in.WC	High Fire: 10 Low Fire: 4						
Natural Gas Orifice (0-2000 Feet)	#	45						
Propane Gas Orifice (0-2000 Feet)	#	55						
Number of Burners		3	4	4	5	5	6	
Primary Heat Exchanger Diameter	Inch	1 3/4						
Primary Heat Exchanger	# Tubes	3	4	4	5	5	6	
Secondary Exchanger Diameter	Inch	3/8						
Secondary Heat Exchanger	# Tubes	33	33	39	39	48	48	
Pressure Switch Factory Setting	(High)	in.WC	1.1					
	(Low)	in.WC	0.55					
Rollout Switch - Resettable	Off/On	°F	300					
Inlet High Temperature Limit Switch	Off/On	°F	150/120	130/100	150/120			
Gas Connection Size	in NPT	1/2						
Ignition Type		Hot surface						
Net Weight	lb	135	141	152	162	169.9	174	

\* All units come standard with a natural gas to propane gas conversion kit

# About Ecoer

## The Most Innovative Residential Ducted Heat Pump and AC System Available

Since 2016, at Ecoer we've used our proprietary and patented Inverter and "Smart" IoT Technology to create the best ducted Residential Air Conditioner and Heat Pump Systems available. Period.

Our passion and commitment to excellence has bolstered our tremendous growth into multiple locations in four countries; from our US base, to Canada, Japan, and China.

Ecoer is meant for everyone. Our clearly-defined corporate goals are to provide the best high-efficiency product at an affordable price, simplifying the inverter installation process, and connecting the contractor to homeowners and their systems.

By staying true to our original mission, we will see our inverter technology used more often in the US residential market. We have a boundless determination toward making the process easier and faster for the contractor; all while saving the homeowner significant money on their power bills and making the world just a bit greener!

**It matters who you choose for your air conditioner and heat pump systems.**

**We're here, and we're ready to help!**

**Ecoer's Mission Statement is:  
Making your home Green and Smart.**



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