



Making your home Green & Smart



ECOER GAS FURNACE

80% AFUE

Upflow & Horizontal

Welcome to a new era of home heating with the Ecoer 80% AFUE Gas Furnace. Engineered for maximum comfort and affordability, this innovative furnace guarantees a comfortable and energy-saving environment for families. Boasting an 80% Annual Fuel Utilization Efficiency, it keeps our consumers warm during the harshest winters with highly affordable cost.

- 01 Brushless DC (ECM) Multi-speed Direct Drive Blower** – Engineered for energy efficiency, offers a broad spectrum of cooling capacities. Its printed circuit board (PCB) features dip switches for straightforward motor speed adjustment
- 02 Fully Tested** – Every unit and its individual components undergo 100% firing and testing on the production line.
- 03 Industry-leading Packaging** - The distinctive corner post design ensures that the product reaches the homeowner without any dents.
- 04 Low Body Design** - Ideal for applications with low ceilings, compatible with taller high SEER coils, and offers easier handling and installation.
- 05 Primary Heat Exchanger with Tubular Design** - The robust construction of the heat exchanger, made from heavy-gauge aluminized steel, ensures a prolonged lifespan.
- 06 30 Second Post Purge** – extend the lifespan of the heat exchanger
- 07 30-Second Delay for Blower Activation** - Guarantees the ducts are warm when the furnace initiates. Features customizable blower shut-off timings of 60, 90, 120, and 180 seconds.
- 08 Hot Surface Igniter** – The furnace employs an innovative silicon nitride igniter, incorporating the reliable Smartlite® technology.
- 09 High Static Blowers** - Every model comes with high static blowers.
- 10 60-Second Cooling Cycle Blower-Off Delay (TDR)** - Enhances cooling performance when paired with a Ecoer coil.
- 11 Integrated Control Board** - This control board includes connections for an electronic air cleaner and humidifier.
- 12 Two-Piece Door Design** - Enhances the aesthetic of the furnace while using captured screws to avoid misplacing door screws.
- 13 Ultra-quiet Operation** – high insulation with blower compartment
- 14 Air Leakage Compliance** - These furnaces meet the Energy Star requirement for cabinet air leakage, which is less than or equal to 2%, ensuring efficient distribution of conditioned air.
- 15 Color-coded Wire Harness** - tailored to seamlessly accommodate components, each equipped with quick-connect fittings for effortless servicing and replacement.

Dimensions

Models	Height	Weight	Depth
FG7SA-054C-T23AP	34-1/2"	14-1/4"	28"
FG7SA-072C-T24BP	34-1/2"	17-1/2"	28"
FG7SA-090C-T24BP	34-1/2"	17-1/2"	28"
FG7SA-090C-T35CP	34-1/2"	21"	28"
FG7SA-108C-T35CP	34-1/2"	21"	28"

Specifications

Product Information	Model		FG7SA-054C-T23AP	FG7SA-072C-T24BP	FG7SA-090C-T24BP	FG7SA-090C-T35CP	FG7SA-108C-T35CP	
Heating Performance	AFUE	%	80					
	Input	Btu/h	52000	70000	90000	85000	108000	
	Heating Capacity	Btu/h	42000	56000	72000	68000	86000	
	Air Temperature Rise	°F	30-60			35-65		
	Design Max. Outlet Air Temperature	°F	200	180	195			
Static Pressure	Rated External Static Pressure	in. WC	0.5					
Electrical Data	Power supply	V-Hz-	120-60-1					
	Max Overcurrent	Amps	15	15	15	20	20	
	Max. Furnace Amps.	Amps	6.8	9.2	9.2	11.9	11.9	
	Blower motor full load	Amps	6.2	8.8	8.8	8.8	11.5	
Blower Data	Blower	Diameter blower wheel	Inch	10	11	11	10	11
		Height blower wheel	Inch	6	8	8	10	10
	Fan Motor	Type	-	ECM				
		Motor Horsepower	HP	1/2	3/4	3/4	3/4	1
	Motor Speeds		# setting	5* High / Mid-High / Mid-Low / Alternate / Low				
	Combustion System Specifications	Max. Inlet Gas Press	in. WC	10				
Min. Inlet Gas Press		in. WC	4.5					
Gas Connection Size		in.	1/2					
Igniter Device		-	Hot surface					
Number of Burners		#	3	4	5	5	6	
Flue Vent Diameter	Inch	4						
Cabinet Size	Cabinet Type		-	A		B		C
	Cabinet Size	Width	Inch	14-1/4"	17-1/2"		21	
	Cabinet Size	(DxH)	Inch	34-1/2"×28				
Dip Switches	Heating Blower Control (Heating Off-Delay)		-	Adjustable: 60, 90, 120 and 180 seconds				
	Cooling Blower Control (Cool Off-Delay)		-	60 second				
Shipping Data	Packing Dimension (without pallet)	(WxDxH)	Inch	17-3/4 x 31 x 35-3/4	21-1/4 x 31 x 35-3/4		25 x 31 x 35-3/4	
	Shipping weight		lbs	95	110	115	134	136

* Unit ships with (4) speeds pre-wired. Use of the fifth speed will require changing the appropriate wires at the motor connection. Consult the wiring diagram for more information.



43671 Trade Center Place, Suite 100
Dulles, VA 20166



+1 (703) 348-2538



www.ecoer.com



info@ecoer.com