# TECHNICAL GUIDE

# SEALED COMBUSTION DOWNFLOW GAS FURNACES

**MODELS: DGAX SERIES** 











Due to continuous product improvement, specifications are subject to change without notice.

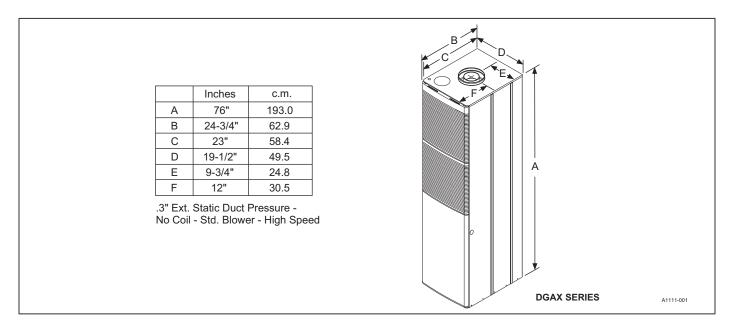
Additional efficiency rating information can be found at www.gamanet.org.

#### **DESCRIPTION**

The DGAX Series gas furnace is actually two systems in one. As a powerful air handler, it can handle up to 4 tons of cooling. As a gas furnace, its range of heating capacities make it a perfect match for the heating requirements of almost any manufactured home.

#### **FEATURES**

- Zero Clearance Feature Allows these furnaces to be installed where space is a premium.
- **Molded Contoured White Upper Panel -** Provides an attractive modern appearance and offers a scratch-resistant, durable appliance finish.
- Pre-Painted Contoured White Lower Panels provide an attractive scratch-resistant appliance finish.
- Built-in Coil Cabinet Is design-matched to work in conjunction with Coleman heat pumps and air conditioners, providing ease of installation and highly efficient operating performance. (DGAX model).
- Standard ECM Blower Provides energy efficiency while providing 5 speed tap options.
- Air Conditioner Ready DGAX Models have blowers capable of handling up to 4 tons of air conditioning.
- Aluminized Steel Heat Exchanger Provides efficient operation and unmatched corrosion resistance.
- Universal Disposal Filters Clean the air and are easy to replace.
- Sealed Combustion Design draws in combustion air directly from outside, providing quiet operation while increasing operating efficiency and reducing cold drafts.
- Conversion to propane gas is fast and easy. All models are provided with a convertible gas valve and gas orifices for both natural and propane gas.



# **TECHNICAL SPECIFICATIONS**

MODEL NUMBER	DGAX056BDTA	DGAX070BDTA	DGAX077BDTA	DGAX090BDTA				
Factory Equipped Fuel	Natural Gas							
Ignition Type	Automatic Hot Surface Ignition							
A/C Controls		A/C Ready						
Input Rate, BTUH	56,000	56,000 70,000 77,000						
Output, BTUH	45,000	56,000	62,000	72,000				
AFUE, % (Nat./LP)	80.0	80.0	0.0 80.0					
High Altitude	For elevations above	For elevations above 2,000 feet, reduce input 4% for each 1,000 feet of elevation above sea level						
Air Temperature RiseRange, °F		45-75						
Designed Maximum Outlet Air Temperature, °F		165						
Maximum External Static Pressure, in. W.C.	0.3							
Furnace Flue Pipe		Must use 4000 Series Roof Jacks						
Gas Connection		1/2" NFPT						
Electric Service		115 VAC, 60 Hz, 1 Phase						
Fuse or Circuit Breaker		15 Amp						
Thermostat Circuit		24 VAC 60 Hz						
Filters	Two 16" x 20" x 1"							

MINIMUM DISTANCE TO COMBUSTIBLE MATERIALS														
Т		ор	Front		Rear		Sides		Roof Jack Flue		Floor <sup>1</sup>		Duct <sup>1</sup>	
Application	Closet	Alcove	Closet	Alcove	Closet	Alcove	Closet	Alcove	Closet	Alcove	Closet	Alcove	Closet	Alcove
	ln.	ln.	ln.	ln.	ln.	ln.								
Downflow	2	2	6	24	0	0	0	0	0	0	0	0	0	0

<sup>1.</sup> Approved duct connector required for use on combustible floor.

## **BLOWER PERFORMANCE CFM - DOWNFLOW WITHOUT FILTERS**

			Airflow Data (SCFM)  Ext. Static Pressure (in. H <sub>2</sub> 0)									
Models	BTU/H (kW) Input/Output	Speed Tap										
			Without Coil					With Coil				
			0.1	0.2	0.3	0.4	0.5	0.1	0.2	0.3	0.4	0.5
		High	1441	1404	1366	1332	1292	1342	1311	1278	1250	1224
		Medium High	1233	1197	1164	1130	1094	1164	1138	1111	1083	1051
DGAX056	56/45 (16.4/13.1)	Medium	1074	1035	998	964	922	1016	989	960	928	898
		Medium Low	1000	962	923	885	845	953	923	890	854	821
		Low	731	687	637	588	529	689	664	620	574	529
	High	1441	1404	1366	1332	1292	1342	1311	1278	1250	1224	
		Medium High	1233	1197	1164	1130	1094	1164	1138	1111	1083	1051
DGAX070 70/56 (20.5/16.4)	70/56 (20.5/16.4)	Medium	1074	1035	998	964	922	1016	989	960	928	898
		Medium Low	1000	962	923	885	845	953	923	890	854	821
		Low	731	687	637	588	529	689	664	620	574	529
		High	1441	1404	1366	1332	1292	1342	1311	1278	1250	1224
		Medium High	1233	1197	1164	1130	1094	1164	1138	1111	1083	1051
DGAX077	77/62 (22.5/18.5)	Medium	1074	1035	998	964	922	1016	989	960	928	898
		Medium Low	1000	962	923	885	845	953	923	890	854	821
		Low	731	687	637	588	529	689	664	620	574	529
DGAX090 90/7.		High	1441	1404	1366	1332	1292	1342	1311	1278	1250	1224
		Medium High	1233	1197	1164	1130	1094	1164	1138	1111	1083	1051
	90/72 (26.3/21.1)	Medium	1074	1035	998	964	922	1016	989	960	928	898
		Medium Low	1000	962	923	885	845	953	923	890	854	821
		Low	731	687	637	588	529	689	664	620	574	529

### **ACCESSORIES**

MODEL NO.	DESCRIPTION	USED WITH			
S1-1PS0166	High Altitude Kit for Natural Gas	All Models			
S1-1PS0167	High Altitude Kit for Propane (LP) Gas	All Models			
7900-7631	Upper Furnace Door	All Models			

Use Low speed tap(5) for DGAX056 for compliance with Fan Efficiency Rating test.
Use Medium Low(4) speed tap for DGAX070 for compliance with Fan Efficiency Rating test.

Use Medium(3) speed tap for DGAX077 for compliance with Fan Efficiency Rating test.
Use Medium High(2) speed tap for DGAX090 for compliance with Fan Efficiency Rating test.

Applications with static pressures higher than 0.3" are not recommended.

# **NOTES**