

# TECHNICAL GUIDE

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## SEALED COMBUSTION DOWNFLOW GAS FURNACES

### MODELS: DGAA SERIES DGAH SERIES

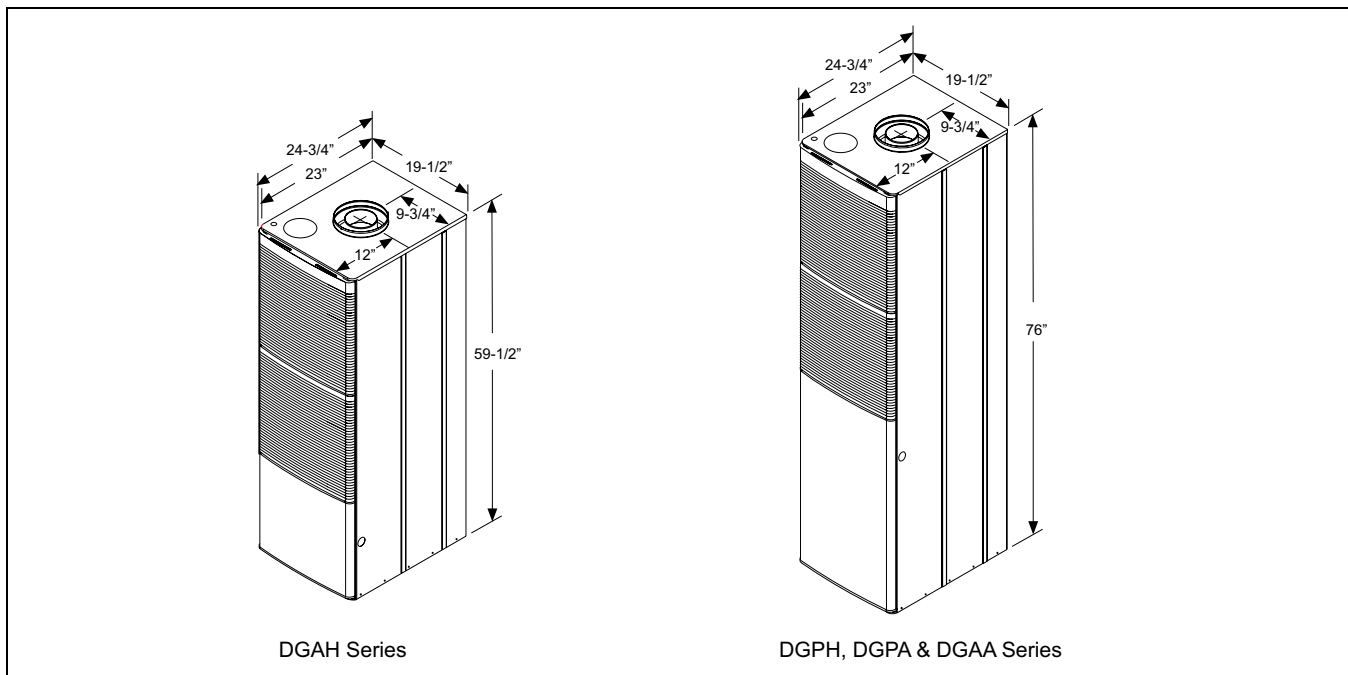


## DESCRIPTION

The DG Series gas furnace is actually two systems in one. As a powerful air handler, it can handle up to 4 tons of cooling. Additional blower accessories will provide 5 tons of cooling. As a gas furnace, its range of heating capacities makes 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. (DGAA model).
- AIR CONDITIONER READY DGAA 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	DGAA056BDTB	DGAA070BDTB	DGAA077BDTB	DGAA090BDTB	DGAH056BBSB	DGAH077BBSB
Factory Equipped Fuel	Natural Gas					
Ignition Type	Automatic Hot Surface Ignition					
A/C Controls	A/C Ready				N/A	
Input Rate, BTUH	56,000	70,000	77,000	90,000	56,000	77,000
Output, BTUH	45,000	56,000	62,000	72,000	45,000	62,000
AFUE, % (Nat./LP)	80.0	80.0	80.0	80.0	80.0	80.0
High Altitude	For elevations above 2,000 feet, reduce input 4% for each 1,000 feet of elevation above sea level					
Air Temperature Rise Range, °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 Maximum					
Thermostat Circuit	24 VAC 60 Hz					
Filters	Two 16" x 20" x 1"					

MINIMUM DISTANCE TO COMBUSTIBLE MATERIALS														
APPLICATION	Top		Front		Rear		Sides		Roof Jack Flue		Floor <sup>1</sup>		Duct <sup>1</sup>	
	Closet	Alcove	Closet	Alcove	Closet	Alcove	Closet	Alcove	Closet	Alcove	Closet	Alcove	Closet	Alcove
	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
<b>DOWNFLOW</b>	2	2	6	24	0	0	0	0	0	0	0	0	0	0

1. Approved duct connector required for use on combustible floor.

## BLOWER PERFORMANCE

STANDARD HEATING BLOWERS			SPEED TAP	EXTERNAL STATIC PRESSURE, INCHES WC				
BTU/H INPUT/OUTPUT	NOMINAL CFM	CABINET SIZE		0.1	0.2	0.3	0.4	0.5
				CFM	CFM	CFM	CFM	CFM
56 / 45	1305	A	High No Coil	1425	1380	1305	1245	1180
			High w/Coil	1385	1315	1260	1200	1135
			Low No Coil	1250	1205	1145	1085	1030
			Low w/Coil	1235	1190	1135	1080	1015
70 / 56	1305	A	High No Coil	1425	1380	1305	1245	1180
			High w/Coil	1385	1315	1260	1200	1135
			Low No Coil	1250	1205	1145	1085	1030
			Low w/Coil	1235	1190	1135	1080	1015
77 / 62	1305	A	High No Coil	1425	1380	1305	1245	1180
			High w/Coil	1385	1315	1260	1200	1135
			Low No Coil	1250	1205	1145	1085	1030
			Low w/Coil	1235	1190	1135	1080	1015
90 / 72	1305	A	High No Coil	1425	1380	1305	1245	1180
			High w/Coil	1385	1315	1260	1200	1135
			Low No Coil	1250	1205	1145	1085	1030
			Low w/Coil	1235	1190	1135	1080	1015
7900 - 7751 AC/ACCESSORY BLOWER			SPEED TAP	EXTERNAL STATIC PRESSURE, INCHES WC				
BTU/H INPUT/OUTPUT	NOMINAL CFM	CABINET SIZE		0.1	0.2	0.3	0.4	0.5
				CFM	CFM	CFM	CFM	CFM
56 / 45	1725	A	High w/Coil	1800	1760	1725	1680	1650
			Med High w/Coil	1535	1505	1480	1445	1410
			Med Low w/Coil	1270	1240	1215	1185	1100
			Low w/Coil	1085	1055	1025	1005	980
70 / 56	1725	A	High No Coil	1800	1760	1725	1680	1650
			High w/Coil	1535	1505	1480	1445	1410
			Low No Coil	1270	1240	1215	1185	1100
			Low w/Coil	1085	1055	1025	1005	980
77 / 62	1725	A	High No Coil	1800	1760	1725	1680	1650
			High w/Coil	1535	1505	1480	1445	1410
			Low No Coil	1270	1240	1215	1185	1100
			Low w/Coil	1085	1055	1025	1005	980
90 / 72	1725	A	High No Coil	1800	1760	1725	1680	1650
			High w/Coil	1535	1505	1480	1445	1410
			Low No Coil	1270	1240	1215	1185	1100
			Low w/Coil	1085	1055	1025	1005	980

## ACCESSORIES

MODEL NO.	DESCRIPTION	USED WITH
7900-7761	AC CONTROL KIT	A/C RELAY FOR DGPH MODELS
7900-7741/A	4 TON BLOWER	4 TON, 2 SPEED BLOWER FOR DGPH, DGPA
7900-7751	5 TON BLOWER	5 TON, 4 SPEED BLOWER FOR ALL MODELS

# NOTES

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**Unitary  
Products  
Group**

**P.O.  
Box  
19014**

**Wichita  
KS  
67204-9014**