



# Gas Furnaces CG80

## PRODUCT SPECIFICATIONS

### INSTALLATION OPTIONS

- Available in Upflow/Horizontal and Counterflow/Horizontal models

### HEAT EXCHANGER

- Aluminized steel tapered design heat exchanger with crimped construction for long life

### BURNERS

- Aluminized steel inshot burners for smooth combustion

### CABINET CONSTRUCTION

- Unitized construction for cabinet integrity
- Open base cabinet design
- Baked on pre-painted steel cabinet finish
- Left or right side gas and electric entry

### BLOWER

- Easily removable slide-out blower design
- PSC multi-speed permanently lubricated blower motor for low maintenance and optimum efficiency

### CONTROLS

- Single stage gas valve
- Integrated ignition and fan control board features self diagnostics
- Hot surface ignitor

### VENTING

- Permanently lubricated draft motor is air cooled for long life
- "L" designated units comply with California's South Coast Air Quality Management District Low NOx requirements

**80% AFUE**  
**50,000 to 125,000 Btuh Input**  
**1.5 to 5 Tons Add-On Cooling**



Upflow /  
Horizontal



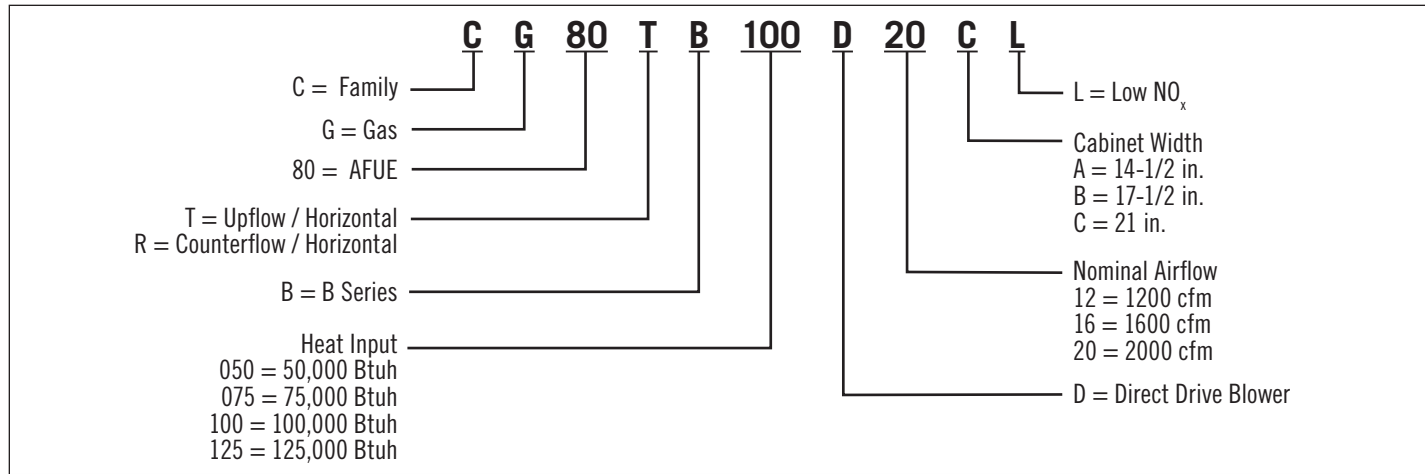
Counterflow /  
Horizontal

**Warranty**  
Heat Exchanger - 20 Year Limited  
Parts - 5 Year Limited

# Gas Furnaces

## CG80

### Model Number Identification



### Specifications

Model No.	Upflow/Horizontal	CG80TB050D12AL	CG80TB075D12AL	CG80TB075D16BL	CG80TB100D20CL	CG80TB125D20C
	Counterflow/Horizontal	CG80RB050D12AL	CG80RB075D12AL	- - -	CG80RB100D20CL	- - -
Input Btuh		50,000	75,000	75,000	100,000	125,000
Output Btuh		40,000	60,000	60,000	80,000	100,000
AFUE (Isolated Comb. System)		80%	80%	80%	80%	80%
Temperature Rise (°F)		30 - 60	40 - 70	35 - 65	35 - 65	50 - 80
Gas Pipe Size (in.)		1/2	1/2	1/2	1/2	1/2
Flue Size (in.) Diameter		4	4	4	5	5
Volts/Hertz/Phase		120/60/1	120/60/1	120/60/1	120/60/1	120/60/1
Blower Motor Horsepower		1/3	1/3	1/2	3/4	3/4
Add-On Cooling (tons)		1.5 - 3	1.5 - 3	2.5 - 4	3 - 5	3 - 5
Circuit Breaker or Fuse		15	15	15	15	15
Full Load Amps		5.8	5.6	7.7	11.2	10.5
Blower Wheel Size - in. (Dia. x Width)		10 x 6	10 x 6	10 x 8	12 x 10	12 x 10
Shipping Weight (lbs.)		125	130	140	170	180

### Filter Requirements

<sup>1</sup> Maximum Airflow cfm	<sup>2</sup> Disposable Filters			<sup>2</sup> Permanent (Cleanable) Filters		
	<sup>3</sup> Minimum Area - sq. in.	<sup>3</sup> Size - in.	Quantity	<sup>3</sup> Minimum Area in <sup>2</sup>	<sup>3</sup> Size - in.	Quantity
1200	576	16 x 20	2	288	16 x 20	1
1600	768	20 x 20	2	384	20 x 20	1
2000	960	20 x 25	2	480	20 x 25	1

- Notes:
- <sup>1</sup> The Airflow Descriptor is the two digits following the "D" in the model number; e.g. "20" is the Airflow Descriptor for CG80TB100D20C (2000 cfm).
  - <sup>2</sup> Areas and dimensions shown for cleanable filters are based on filters rated at 600 feet per minute face velocity.
  - <sup>3</sup> Typical filter sizes are shown, however, any combination of filters whose area equals or exceeds the minimum area shown is acceptable.  
**Note: Two filters are required for airflow exceeding 1600 cfm.**

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## Blower Data - Upflow / Horizontal

Model	Blower Speed	<sup>1</sup> CFM @ External Static Pressure - in w.c. With Filter(s)							
		.20	.30	.40	.50	.60	.70	.80	.90
CG80TB050D12AL	High	1310	1270	1210	1165	1090	1015	650	850
	Med/High	1060	1045	1025	990	955	895	800	775
	Med	870	860	845	820	790	755	685	610
	Low	785	765	745	715	665	640	580	525
CG80TB075D12AL	High	1270	1235	1195	1145	1080	1025	945	860
	Med/High	1035	1015	990	965	925	895	860	820
	Med	845	845	820	795	760	720	680	620
	Low	720	715	690	675	645	620	572	525
CG80TB075D16BL	High	1780	1680	1635	1540	1445	1335	1265	1125
	Med/High	1560	1510	1480	1400	1340	1235	1115	995
	Med	1305	1285	1270	1215	1175	1100	1030	895
	Low	1115	1060	1040	985	905	805	615	385
CG80TB100D20CL	High	2160	2135	2100	2040	2005	1945	1860	1785
	Med/High	1790	1765	1745	1720	1685	1645	1590	1525
	Med	1560	1525	1515	1495	1455	1410	1375	1320
	Med/Low	1285	1260	1245	1210	1185	1150	1100	1070
	Low	1005	970	925	890	850	810	740	685
CG80TB125D20C	High	2095	2080	2035	1970	1925	1820	1735	1750
	Med/High	1780	1755	1735	1710	1645	1565	1530	1465
	Med	1570	1530	1520	1485	1435	1395	1350	1235
	Med/Low	1310	1285	1255	1225	1190	1155	1095	1020
	Low	1015	975	950	905	830	775	720	655

Notes:

<sup>1</sup> Maximum approved external static pressure is 0.50 in. w.c.

# Gas Furnaces

## CG80

### Blower Data - Counterflow / Horizontal

Model	Blower Speed	<sup>1</sup> CFM @ External Static Pressure - in w.c. With Filter(s)							
		.20	.30	.40	.50	.60	.70	.80	.90
CG80RB050D12AL	High	1330	1290	1235	1170	1135	1035	935	865
	Med/High	1100	1085	1055	1020	970	915	830	755
	Med	890	875	860	830	805	755	695	645
	Low	760	740	730	715	685	645	605	530
CG80RB075D12AL	High	1295	1250	1200	1135	1075	1020	935	860
	Med/High	1045	1035	1010	975	935	880	815	750
	Med	850	845	830	815	780	745	690	625
	Low	730	720	705	685	660	620	580	500
CG80RB100D20CL	High	2165	2140	2090	2055	2000	1925	1905	1815
	Med/High	1785	1755	1725	1700	1670	1600	1525	1410
	Med	1580	1545	1535	1515	1460	1405	1315	1135
	Med/Low	1325	1305	1275	1230	1195	1135	1025	970
	Low	1015	995	955	905	845	785	690	650

Notes:

<sup>1</sup> Maximum approved external static pressure is 0.50 in. w.c.

## Accessories

### Upflow / Horizontal

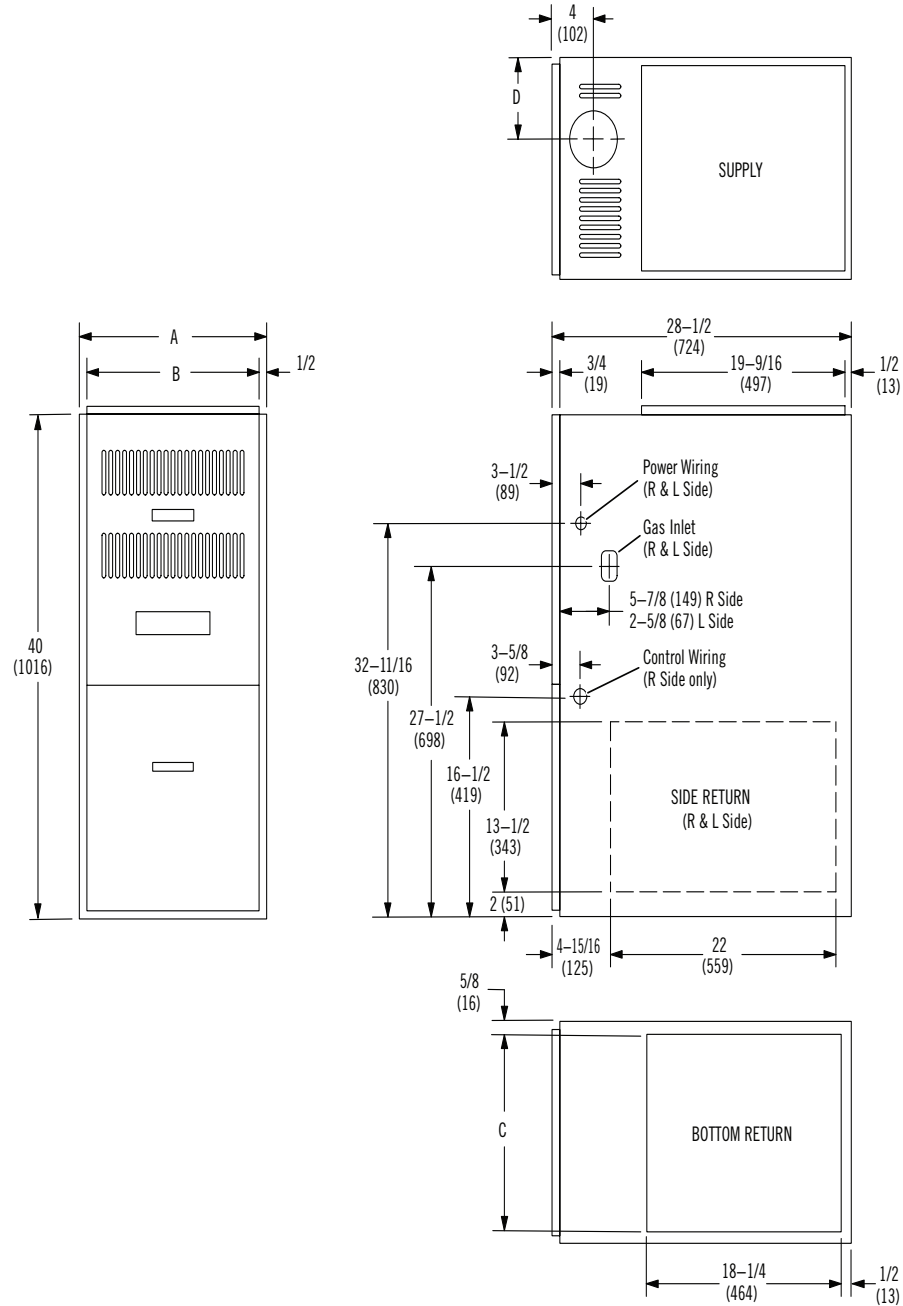
Model No.	CG80TB050D12AL	CG80TB075D12AL	CG80TB075D16BL	CG80TB100D20CL	CG80TB125D20C
Natural to LP Gas Conversion Kit	52W13	52W13	52W13	52W13	52W13
Twinning Kit	1.841136	1.841136	1.841136	1.841136	1.841136

### Counterflow / Horizontal

Model No.	CG80RB050D12AL	CG80RB075D12AL	CG80RB100D20CL
Combustible Floor Base	1.841014	1.841014	1.841035
Natural to LP Gas Conversion Kit	52W13	52W13	52W13
Twinning Kit	1.841136	1.841136	1.841136

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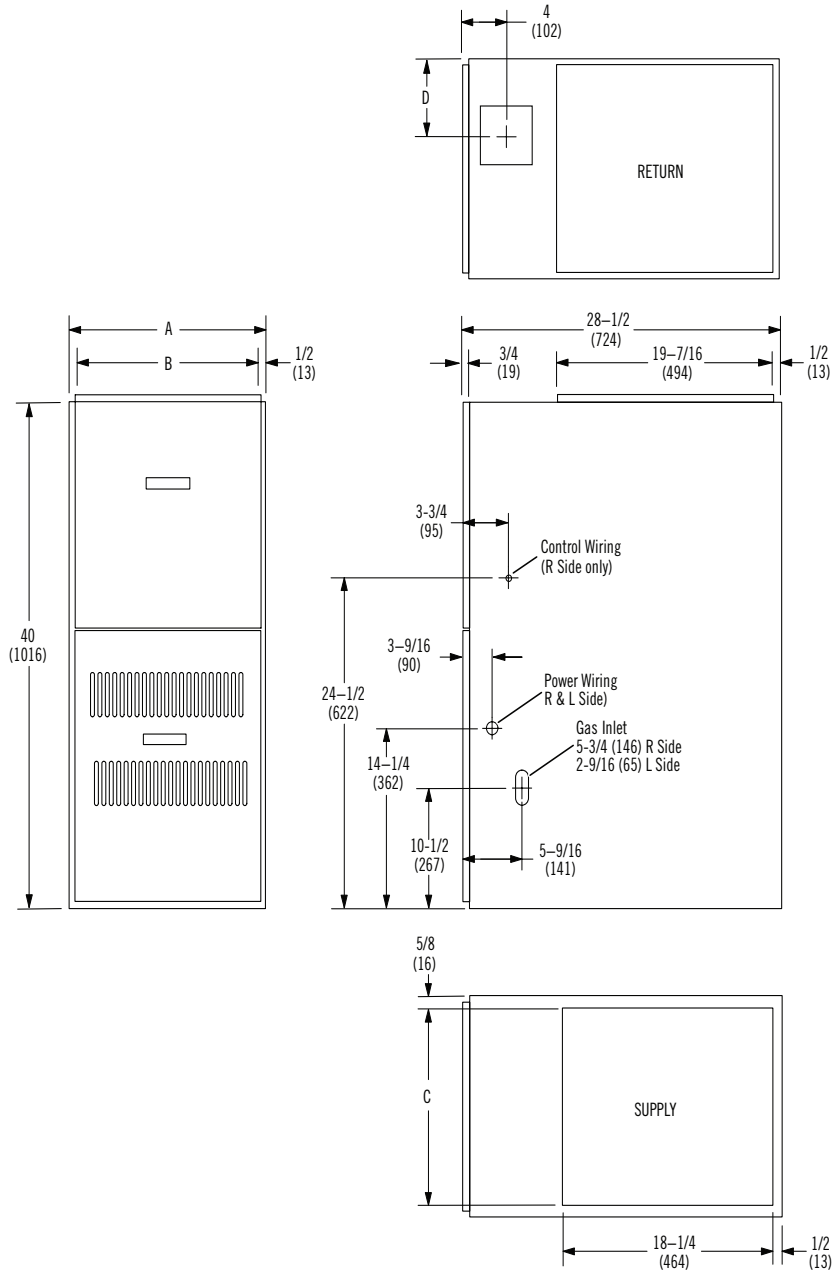
## Dimensions - inches (mm) Upflow / Horizontal



Model No.	A		B		C		D	
	in.	mm	in.	mm	in.	mm	in.	mm
CG80TB050D12AL	14-1/2	368	13-1/2	343	13-1/4	337	4-7/8	124
CG80TB075D12AL								
CG80TB075D16BL	17-1/2	445	16-1/2	419	16-1/4	413	6-1/2	165
CG80TB100D20CL	21	533	20	508	19-3/4	502	8-1/4	210
CG80TB125D20C								

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## Dimensions - inches (mm) Counterflow / Horizontal



Model No.	A		B		C		D	
	in.	mm	in.	mm	in.	mm	in.	mm
CG80RB050D12AL	14-1/2	368	13-1/2	343	13-1/4	337	4-7/8	124
CG80RB075D12AL								
CG80RB100D20CL	21	533	20	508	19-3/4	502	8-1/4	210





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