

# Upflow / Horizontal

95% Gas Furnace

## CG95

### Features and Benefits

#### HEAT EXCHANGER DESIGN

- Aluminized steel tapered S-curve design primary exchanger with crimped no weld construction
- AL29-4C Stainless steel secondary heat exchanger

#### BURNERS

- Aluminized steel inshot burners for smooth ignition

#### CABINET CONSTRUCTION

- Unitized construction for cabinet integrity
- Baked on prepainted steel cabinet finish

#### AIR DELIVERY SYSTEM

- Standard multi-speed PSC blower motor
- Easily removable slide out blower design

#### CONTROLS

- Single stage control gas valve
- Integrated ignition and fan control
- Self diagnostics saving last five (5) fault codes regardless of power interruption
- Hot surface mini ignitor

#### VENTING

- Permanently lubricated draft motor with stainless steel shaft, ball bearings, and air cooled for long life
- Design certified for direct and non-direct vent applications



Proper sizing and installation of equipment is critical to achieve optimal performance. Ask your contractor for details or visit [www.energystar.gov](http://www.energystar.gov)

#### INSTALLATION FEATURES

- Left or right gas and electric entry

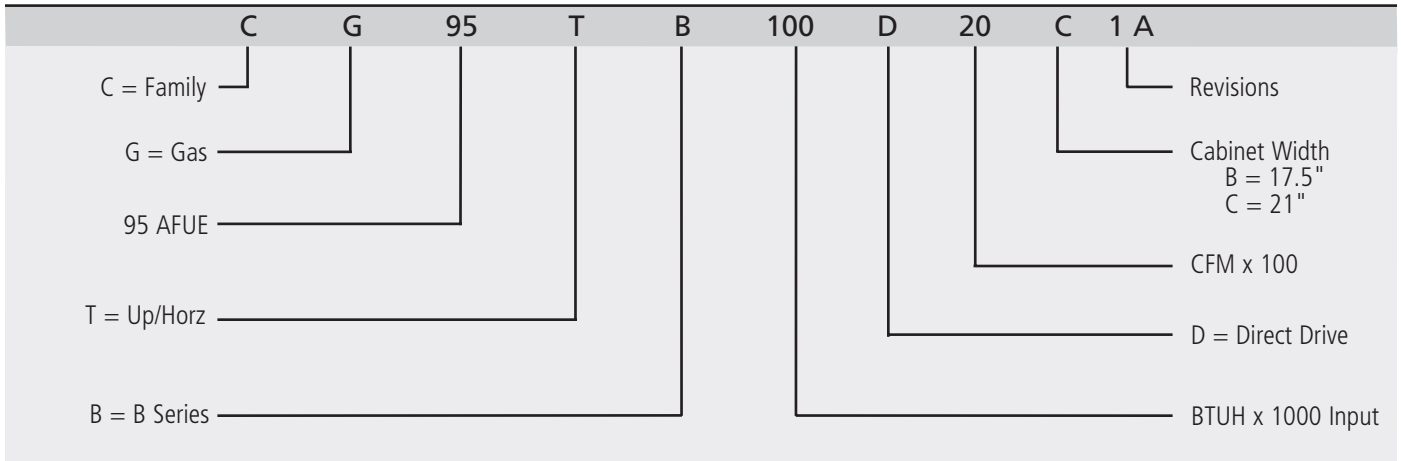
#### WARRANTY

- 10 year limited parts warranty / lifetime heat exchanger warranty available. See limited warranty document for details.

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Quality heating and cooling products

# 95% Gas Furnace

## Model Number Guide



## Physical and Electrical Data

Configuration	Model	Input (Btuh)	Output (Btuh)	AFUE (ICS)	Nominal Cooling Capacity	Gas Inlet (in.)	Volts/ Hz/ Phase	Minimum Time Delay Breaker or Fuse	Nominal F.L.A.	Trans. (V.A.)	Approx. Weight (lbs.)
Upflow / Horizontal	CG95TB040D12B	40,000	38,000	95.0%	1.5 - 3.0	1/2	120 / 60 / 1	15	5.4	40	160
	CG95TB060D12B	60,000	57,000	95.0%	1.5 - 3.0	1/2	120 / 60 / 1	15	6.1	40	185
	CG95TB080D16C	80,000	76,000	95.0%	2.5 - 4.0	1/2	120 / 60 / 1	15	7.2	40	195
	CG95TB100D20C	100,000	95,000	95.0%	3.0 - 5.0	1/2	120 / 60 / 1	15	10.4	40	215

## Blower Performance Data

Configuration	Model	Motor Size (hp)	Blower Size	Temp. Rise °F	Blower Speed	CFM @ ext. Static Pressure - in W.C. with Filter(s)							
						.20	.30	.40	.50	.60	.70	.80	.90
Upflow / Horizontal	CG95TB04012B	1/3	10 x 8	30 - 60	High	1,355	1,305	1,255	1,200	1,120	1,060	980	880
					Med/High	1,085	1,075	1,045	1,010	965	915	840	750
					Med	865	855	840	815	780	740	680	605
					Low	740	730	720	680	665	620	575	500
	CG95TB06012D	1/3	10 x 8	40 - 70	High	1,390	1,335	1,270	1,205	1,140	1,065	950	860
					Med/High	1,230	1,175	1,135	1,080	1,010	930	840	720
					Med	1,010	985	955	910	870	805	720	585
					Low	870	845	835	800	760	690	600	495
	CG95TB080D16C	3/4	12 x 10	40 - 70	High	1,975	1,925	1,865	1,805	1,745	1,665	1,580	1,495
					Med/High	1,705	1,665	1,620	1,585	1,535	1,475	1,400	1,300
					Med	1,480	1,455	1,425	1,395	1,345	1,300	1,240	1,180
					Med/Low	1,260	1,240	1,215	1,185	1,140	1,100	1,045	975
					Low	970	945	910	890	860	790	745	675
	CG95TB100D20C	.9	12 x 10	40 - 70	High	2,135	2,035	1,930	1,840	1,735	1,645	1,545	1,505
					Med/High	2,020	1,950	1,880	1,830	1,725	1,630	1,530	1,440
					Med	1,930	1,865	1,810	1,720	1,660	1,555	1,480	1,345
					Med/Low	1,720	1,665	1,575	1,525	1,415	1,315	1,240	1,160
					Low	1,505	1,435	1,335	1,320	1,250	1,185	1,085	995

## Filter Requirement Data

Maximum Airflow (CFM) <sup>1</sup>	Disposable Filters			Permanent (Cleanable) Filters <sup>2</sup>		
	Minimum Area (sq. in.) <sup>3</sup>	Size (in.) <sup>3</sup>	Quantity	Minimum Area (sq. in.) <sup>3</sup>	Size (in.) <sup>3</sup>	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:**

1. The Airflow Descriptor is the two digits following the "D" in the model number; e.g. "20" is the Airflow Descriptor for CG95TB100D20C.
2. Areas and dimensions shown for washable filters are based on filters rated at 600 feet per minute face velocity.
3. Typical filter sizes are shown, however, any combination of filters whose area equals or exceeds the minimum area shown is satisfactory.  
**Note: Two filters are required for airflows exceeding 1600 cfm.**

## Vent Length Specifications - Maximum

Model	Pipe Size (in.)		
	2	2.5	3
CG95TB040D12B	60 ft	90 ft	90 ft
CG95TB060D12B	60 ft	90 ft	90 ft
CG95TB080D16C	40 ft	60 ft	90 ft
CG95TB100D20C	40 ft	60 ft	90 ft

Allowance for vent and air intake terminals included in lengths shown.

One 90° elbow equals 5 ft of pipe. Preferred fittings are DWV (Drain, Waste, Vent) or long sweep.

Minimum length 5 ft. and 1 elbow not including the vent and air intake terminals.

2" diameter not recommended for altitudes above 4000 ft.

3" diameter required for altitudes above 5000 ft.

## Accessories

Kit Number	Catalog Number	Description	Used with
ALPKT574	1.831022	Propane conversion kit	All CG90CB, CG92TB & CG95TB models
ATWIN579	1.841136	Twinning kit	All CG units excluding Variable speed models
AFILTHA7	1.841005	Single side air return filter kit with 5 tons airflow (double 16 x 20 filter)	All Upflow CG Gas furnaces
AFILT529	1.841020	Bottom return filter kit	All Upflow CG Gas furnaces
AFILT524	1.841018	Upflow side return filter kit (16 x 25 filter)	All Upflow CG Gas furnaces
ACVK2	1.851001	Concentric vent kit	All 90% models

## Clearances to Combustibles (in.)

Model Number	Top	Right Side	Left Side	Front	Back	Vent
CG95TB040D12B	1	0	0	2*	0	0
CG95TB060D12B	1	0	0	2*	0	0
CG95TB080D16C	1	0	0	2*	0	0
CG95TB100D20C	1	0	0	2*	0	0

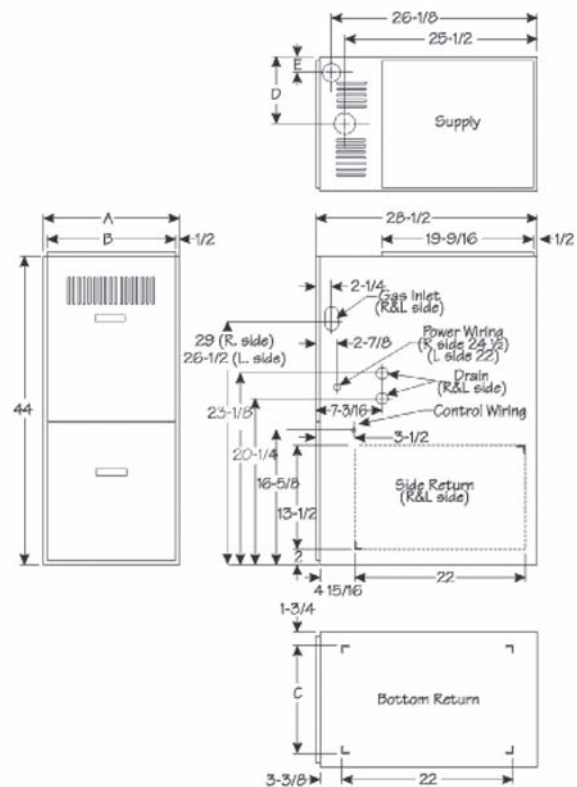
\* 18" Front Horizontal Installations

# 95% Gas Furnace

## Dimensions (in.)

Configuration	Model	A	B	C	D	E
Upflow / Horizontal	CG95TB040D12B	17-1/2	16-1/2	14	10-1/8	2
	CG95TB060D12B	17-1/2	16-1/2	14	11-3/4	2
	CG95TB080D16C	21	20	17-1/2	15	2
	CG95TB100D20C	21	20	17-1/2	16-1/2	1-5/8

T = Upflow/Horizontal



All specifications and illustrations  
subject to change without notice  
and without incurring obligations.

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