

# Ducane™

## AIR CONDITIONING AND HEATING

Upflow / Horizontal, Upflow, Counterflow

### 95% Gas Furnace Two Stage - Variable Speed

Form No. DCG95-V-100 (10/09)

## CG95-V

### Features and Benefits

#### HEAT EXCHANGER DESIGN

- Aluminized primary heat exchanger material
- Weldless crimped S-curve primary heat exchanger design for maximum durability

#### BURNERS

- Aluminized steel in-shot burners for smooth ignition

#### CABINET CONSTRUCTION

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

#### AIR DELIVERY SYSTEM

- ECM™ variable speed blower motor
- Motor features “soft start” and “soft stop” for quiet operation
- Active and passive dehumidification feature
- Easily removable slide-out blower design

#### CONTROLS

- Two-stage gas valve
- Integrated ignition and fan control
- Control board features five (5) fault codes with push button memory recall, regardless of power interruption
- Hot surface ignition system uses high density mini ignitor with stainless steel shroud
- Compatible with single- or two-stage thermostats for heating

Two-stage thermostat is required when installed with two-stage cooling unit.

#### VENTING

- 2-Speed induced draft motor with stainless steel shaft, steel ball bearings, and fan cooled for long life
- Certified for direct and non-direct vent application



Upflow/Horizontal shown



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

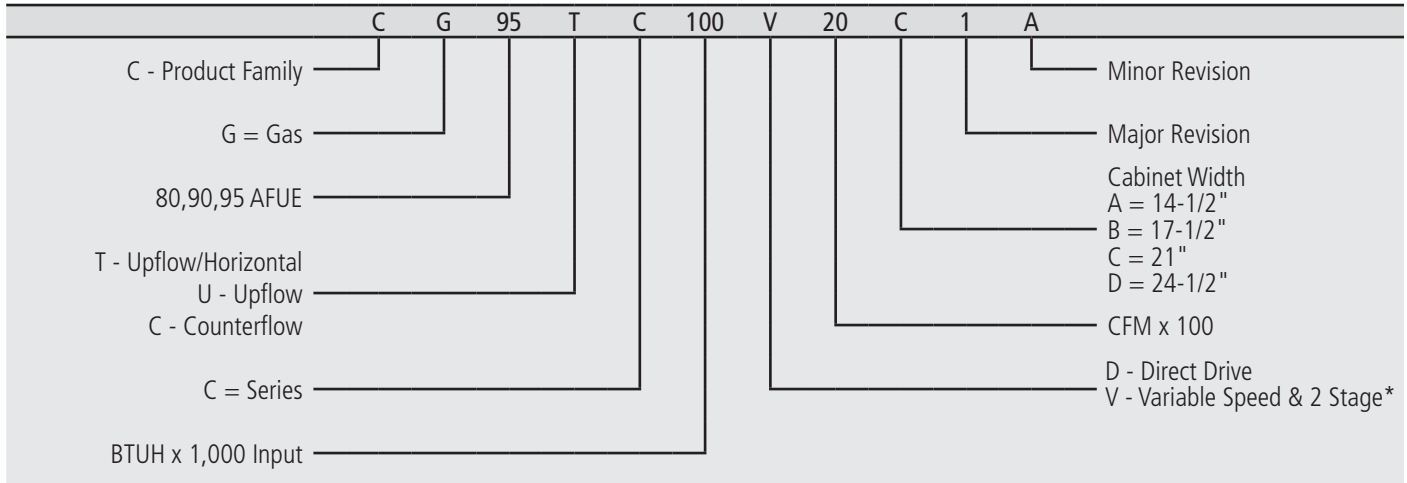
- Left or right gas and electric entry

#### WARRANTY

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

# 95% Gas Furnace with Variable Speed

## Model Number Guide



\* "V" indicates 2 stage heating and variable speed air delivery

## Physical and Electrical Data

Model	First Stage		Second Stage		AFUE	Nom. Cooling Cap.	Gas Inlet (In.)	Voltz/ Hz/Phase	Min. Time Delay Breaker or Fuse	Nominal F.L.A.	Trans. (V.A.)	Weight (lbs.)
	Input (Btuh)	Output (Btuh)	Input (Btuh)	Output (Btuh)								
CG95(T,C)C040V12B	28,000	26,600	40,000	38,000	95.0%	1.5-3.0	1/2	120/60/1	15	5.3	40	170
CG95(T,C)C060V14B	42,000	39,900	60,000	57,000	95.0%	1.5-3.5	1/2	120/60/1	15	5.3	40	195
CG95(T,C)C080V16C	56,000	53,280	80,000	76,000	95.0%	2.5-4.0	1/2	120/60/1	15	5.3	40	205
CG95(T,C)C080V20C	56,000	53,280	80,000	76,000	95.0%	3.5-5.0	1/2	120/60/1	15	6.8	40	210
CG95(T,C)C100V20	70,000	66,500	100,000	95,000	95.0%	3.5-5.0	1/2	120/60/1	15	6.8	40	230
CG95(T,C)C125V20	87,500	82,250	125,000	117,500	94.0%	3.5-5.0	1/2	120/60/1	15	6.8	40	230
CG95UC125V20D*	87,500	82,250	125,000	117,500	94.0%	3.5-5.0	1/2	120/60/1	15	6.8	40	235

\* Available in Upflow only

## Accessories

Kit Number	Catalog Number	Description	Used with
ABASE512	1.841015	Combustible floor base for 17.5" wide units	All "B" Width counterflow units
ABASE568	1.841035	Combustible floor base for 21" wide units	All "C" Width counterflow units
ALPKT583	1.831024	Propane conversion kit	All 95% 2 Stage models
ACVK2	1.851001	Concentric vent kit	All 90% models
AFITLHA7	1.841005	Single side air return kit 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
AFILT525	1.841019	Counterflow filter kit	All Counterflow Gas Furnaces

# 95% Gas Furnace with Variable Speed

## Blower Performance Data

Direction	Model	Motor Size (hp)	Blower Size	Temp. Rise (°F)	Blower Speed Tap	Heating CFM		Cooling Adjustment	Cooling CFM @ .50 in W.C. ext. static pressure				
						Low Fire	High Fire		Setting "A"	Setting "B"	Setting "C"	Setting "D"	
Upflow/ Horizontal, Counterflow	CG95(T,C)C040V12B	1/2	10 x 8	40-50		-	-	Nom.	1185	980	775	565	
						-	-	(+)	1350	1125	905	670	
						-	-	(-)	1005	815	655	500	
						A Tap Setting*	575	865	-	-	-	-	
	CG95(T,C)C060V14B	1/2	10 x 8	50-60			-	-	Nom.	1405	1235	1040	815
							-	-	(+)	1615	1410	1185	960
							-	-	(-)	1230	1055	870	690
						A Tap Setting*	650	1020	-	-	-	-	
	CG95(T,C)C080V16C	3/4	12 x 10	50-60			-	-	Nom.	1600	1415	1215	1005
							-	-	(+)	1850	1610	1395	1150
							-	-	(-)	1360	1190	1020	890
						A Tap Setting*	950	1490	-	-	-	-	
CG95(T,C)C080V20	1	12 x 10	50-60			-	-	Nom.	1985	1780	1590	1330	
						-	-	(+)	2180	2045	1785	1590	
						-	-	(-)	1690	1495	1305	1105	
					C,D Tap Setting*	950	1385	-	-	-	-		
Upflow/ Horizontal	CG95TC100V20C	1	12 x 10	50-60		-	-	Nom.	1935	1765	1560	1355	
						-	-	(+)	2210	1985	1790	1560	
						-	-	(-)	1645	1485	1315	1170	
						B Tap Setting*	1105	1630	-	-	-	-	
	CG95TC125V20C	1	12 x 10	50-60			-	-	Nom.	1935	1765	1560	1355
							-	-	(+)	2210	1985	1790	1560
-							-	(-)	1645	1485	1315	1170	
					A Tap Setting*	1450	2115	-	-	-	-		
Upflow Only	CG95UC125V20D**	1	12 x 10	50-60		-	-	Nom.	2045	1840	1630	1400	
						-	-	(+)	2280	2100	1860	1595	
						-	-	(-)	1735	1570	1355	1190	
					A Tap Setting*	1450	2115	-	-	-	-		
Counterflow	CG95CC100V20D	1	12 x 10	50-60		-	-	Nom.	1890	1705	1490	1270	
						-	-	(+)	2205	1970	1745	1495	
						-	-	(-)	1600	1410	1225	1080	
						B Tap Setting*	1105	1630	-	-	-	-	
	CG95CC125V20D	1	12 x 10	50-60			-	-	Nom.	1890	1705	1490	1270
							-	-	(+)	2205	1970	1745	1495
-							-	(-)	1600	1410	1225	1080	
					A Tap Setting*	1450	2115	-	-	-	-		

\* Speed tap for temperature rise within rise range.

\*\* Available in Upflow only

## Filter Requirement Data

Maximum Airflow (CFM) <sup>1</sup>	Disposable Filters			Permanent (Cleanable) Filters <sup>2</sup>		
	Min. Area (sq. in.) <sup>3</sup>	Size (in.) <sup>3</sup>	Quantity	Min. Area (sq. in.) <sup>3</sup>	Size (in.) <sup>3</sup>	Quantity
1200	576	16 x 20	2	288	16 x 20	1
1400	672	20 x 20	2	336	20 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

<sup>1</sup> The Maximum Airflow is the two digits following the "V" in the model number x 100; e.g. "14 x 100=1400" is the maximum airflow for CG95TC60V14.

<sup>2</sup> Areas and dimensions shown for permanent (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 satisfactory.

## 95% Gas Furnace with Variable Speed

### Vent Length Specifications - Maximum

Model	Pipe Size (in.)		
	2	2-1/2	3
CG95(T,C)C040	60ft	90ft	90ft
CG95(T,C)C060	60ft	90ft	90ft
CG95(T,C)C080	40ft	60ft	90ft
CG95(T,C)C100	40ft	60ft	90ft
CG95(T,C)C125	NR	50ft	60ft
* CG95UC125	NR	50ft	60ft

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 at altitudes above 4,000 ft.  
 3" diameter required for altitudes above 5,000 ft.

### Upflow, Counterflow Clearances to Combustibles (in.)

Model	Top	Side	Front	Back	Vent
CG95(T, C)C040V12B	1	0	2	0	0
CG95(T, C)C060V14B					
CG95(T, C)C080V16C					
CG95(T, C)C080V20C					
CG95(T, C)C100V20					
CG95(T, C)C125V20					
CG95UC125V20D*					

\* Available in upflow only

### Horizontal Clearances to Combustibles (in.)

Model	Top	Right Side	Left Side	Front	Back	Vent
CG95TC040V12B	0	0	0	18	0	0
CG95TC060V14B						
CG95TC080V16C						
CG95TC080V20C						
CG95TC100V20C						
CG95TC125V20C						

# 95% Gas Furnace with Variable Speed

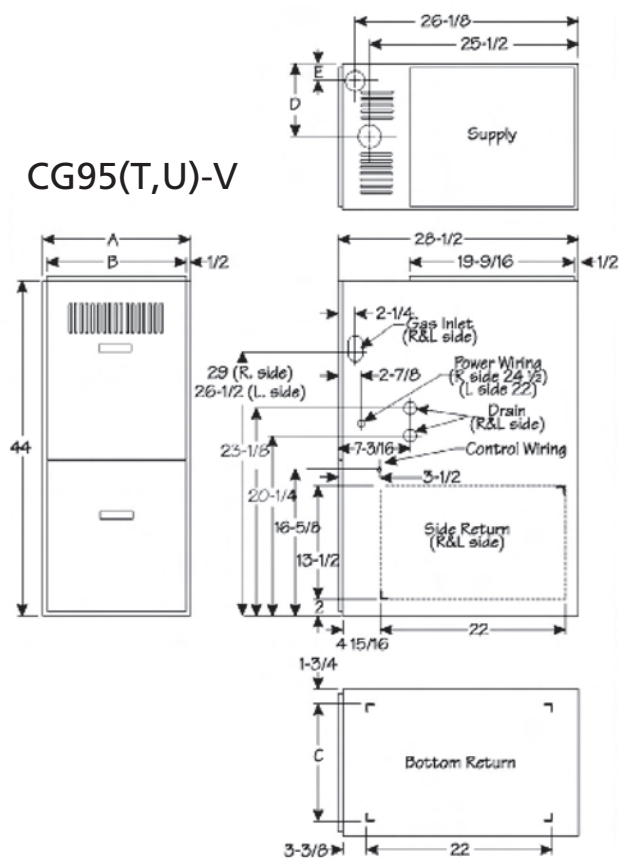
T - Upflow/Horizontal  
 U - Upflow  
 C - Counterflow

## Dimensions Upflow/Horizontal

Model	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)
CG95TC040V12B	17-1/2	16-1/2	14	10-1/8	2
CG95TC060V14B	17-1/2	16-1/2	14	11-3/4	2
CG95TC080V16C	21	20	17-1/2	15	2
CG95TC080V20C					
CG95TC100V20C	21	20	17-1/2	16-1/2	1-1/2
CG95TC125V20C					
* CG95UC125V20D	24-1/2	23-1/2	21	18-1/4	2-5/8

\* Available in Upflow only

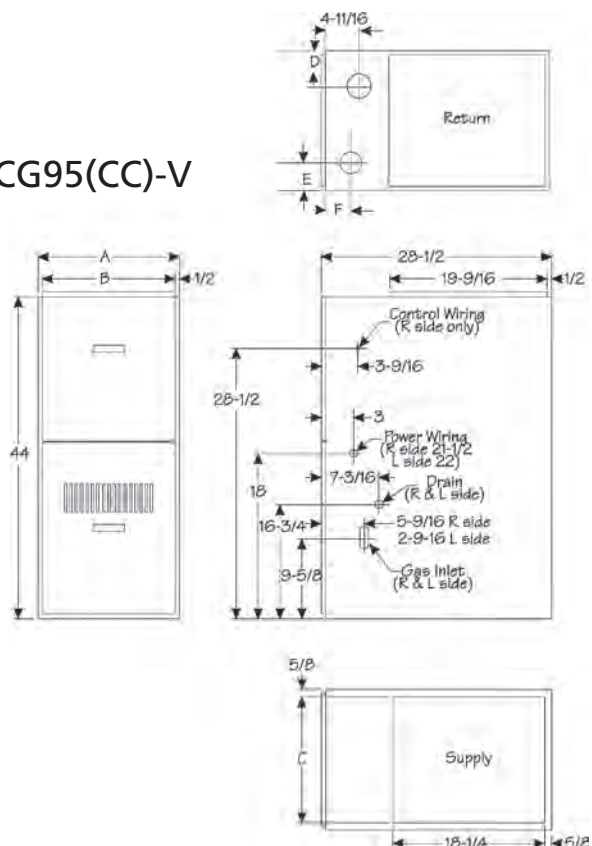
## CG95(T,U)-V



## Dimensions Counterflow

Model	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)
CG95CC040V12B	17-1/2	16-1/2	16-1/4	3-11/16	4-1/2	3
CG95CC060V14B						
CG95CC080V16C	21	20	19-3/4	5-11/16	6-1/4	3
CG95CC080V20C						
CG95CC100V20D	24-1/2	23-1/2	23-1/4	4-11/16	6-3/8	3-5/16
CG95CC125V20D						

## CG95(CC)-V



**Ducane**<sup>TM</sup>  
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AND HEATING**

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