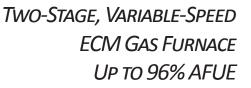
Goodman Air Conditioning & Heating

GCVC96 (B)

HEATING INPUT: 40,000–120,000 BTU/H





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Standard Features

- Integrated communicating ComfortBridge[™] Technology
- Commissioning and diagnostics via on board Bluetooth with the CoolCloud phone and tablet application
- Heavy-duty aluminized-steel tubular heat exchanger
- Stainless-steel secondary heat exchanger
- Two-stage gas valve provides quiet, economical heating
- Durable Silicon Nitride igniter
- Quiet two-speed induced draft blower
- Compatible with any single-stage thermostat
- Self-diagnostic control board with constant memory fault code history output to a triple 7-segment display
- Color-coded low-voltage terminals with provisions for electronic air cleaner
- Efficient and quiet variable-speed airflow system gently ramps up or down according to heating or cooling demand
- Multiple continuous fan speed options offer quiet air circulation
- Auto-Comfort and enhanced dehumidification modes available
- All models comply with California 40 ng/J Low NOx emissions standard
- For installation in California's South Coast Air Quality Management District (SCAQMD) only: This furnace does not meet the SCAQMD Rule 1111 14 ng/J NOx emission limit, and thus is subject to a mitigation fee of up to \$450. This furnace is not eligible for the SCAQMD Clean Air Furnace Rebate Program: www.CleanAirFurnaceRebate.com.
- AHRI Certified; ETL Listed

Cabinet Features

- Designed for multi-position installation downflow, horizontal left or right
- Certified for direct vent (2-pipe) or non-direct vent (1-pipe)
- Easy-to-install top venting with optional side venting
- Convenient left or right connection for gas and electrical service
- Cabinet air leakage ≤ 2%
- · Heavy-gauge steel cabinet with durable finish
- Fully insulated heat exchanger and blower section
- Airtight solid bottom or side return with easy-cut tabs for effortless removal in bottom air-inlet applications



Complete warranty details available from your local dealer or at www.goodmanmfg.com. To receive the Lifetime Heat Exchanger Limited Warranty (good for as long as you own your home), 10-Year Unit Replacement Limited Warranty and 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Québec.

	G	С	V	С	96	060	3	В	N	**	
Г	1	2	3	4	5,6	7,8,9	10	11	12	13,14	i 1
Brand											Engineering
G - Goodman [®] Brand										*	Major / Minor Revisions
CONFIGURATION											NOx
M - Upflow/Horizonta	I										N - Low NOx
C - Downflow/Horizon	tal										
											CABINET WIDTH
Motor									В	- 17½″	C - 21"
V - Variable Speed ECN	Л / Cor	nfortBrid	ge								D - 24½"
E - Multi-Speed ECM											
S - Single Speed											MAXIMUM CFM
									2 - 800) CFM	4 - 1600 CFM
GAS VALVE									3 - 120	DO CFM	5 - 2000 CFM
M - Modulating											
C - Two- Stage											MBTU/H
S - Single Stage											040 - 40,000 BTU/h
											060 - 60,000 BTU/h
AFUE											120 - 120,000 BTU/h
97 - 97% AFUE	96 - 96	5% AFUE									
92 - 92% AFUE											

ACCESSORIES

Model	Description	GCVC96 0403BNB	GCVC96 0603BNB	GCVC96 0804CNB	GCVC96 1005CNB	GCVC96 1205DNB
CVENT-2	Concentric Vent Kit (2")	V	V	V	V	
CVENT-3	Concentric Vent Kit (3")	V	V	V	V	V
CFSB17	Downflow Sub-Base 17.5"	V	V			
CFSB21	Downflow Sub-Base 21"			V	V	
CFSB24	Downflow Sub-Base 24"					V
RF000142	Drain Kit -Horizontal Left Vertical Flue	V	V	V	V	V
0170K00000S	Flush Mount Vent Kit - 3" or 2"	V	V	V	V	V
0170K00001S	Flush Mount Vent Kit - 2"	V	V	V	V	
HASFK	High-Altitude Natural Gas Kit	HASFK-1	HASFK-1	HASFK-2	HASFK-3	HASFK-3
HASFK	High-Altitude LP Gas Kit	HASFK-1	HASFK-1	HASFK-2	HASFK-2	HASFK-3
LPLP03	Low LP Gas Pressure Switch	V	V	V	V	V
LPM-08	LP Conversion Kits	V	V	V	V	V

	GCVC96 0403BNB	GCVC96 0603BNB	GCVC96 0804CNB	GCVC96 1005CNB	GCVC96 1205DNB
HEATING DATA					
High Fire Input ¹	40,000	60,000	80,000	100,000	120,000
High Fire Output ¹	38,400	57,600	76,800	96,000	115,200
Low-Fire Steady-State Input ¹	28,000	42,000	56,000	70,000	84,000
Low-Fire Steady-State Output ¹	26,880	40,320	53,760	67,200	80,640
AFUE ²	96	96	96	96	96
Temperature Rise Range (°F)	20 - 50	35 - 65	25 - 55	45 - 75	35 - 65
Vent Diameter ³	2" - 3"	2" - 3"	2" - 3"	2" - 3"	2" - 3"
No. of Burners	2	3	4	5	6
CIRCULATOR BLOWER					
Available AC @ 0.5" ESP	1.5 - 3	1.5 - 3	1.5 - 4	2 - 5	2 - 5
Size (D x W)	10" x 8"	11" x 8"	11" x 10"	11" x 10"	11" x 11"
Horsepower @ 1075 RPM	1/2	1/2	3⁄4	1	1
Speed	VS ECM				
ELECTRICAL DATA					
Min. Circuit Ampacity ⁴	7.8	7.8	10.6	14.4	14.4
Max. Overcurrent Device (amps)⁵	15	15	15	20	20
Shipping Weight (lbs)	116	119	143	145	158

¹ Natural Gas BTU/h

² DOE AFUE based upon Isolated Combustion System (ICS)

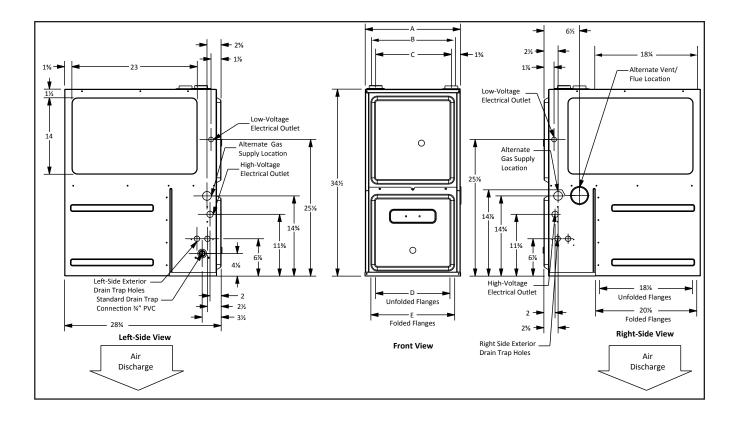
⁴ Minimum Circuit Ampacity = (1.25 x Circulator Blower Amps) + ID Blower amps. Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

⁵ Maximum Overcurrent Protection Device refers to maximum recommended fuse or circuit breaker size. May use fuses or HACR-type circuit breakers of the same size as noted.

NOTES

- All furnaces are manufactured for use on 115 VAC, 60 Hz, single-phase electrical supply.
- Gas Service Connection ½" FPT
- Important: Size fuses and wires properly and make electrical connections in accordance with the National Electrical Code and/or all existing local codes.
- For bottom return: Failure to unfold flanges may reduce airflow by up to 18%. This could result in performance and noise issues.
- For servicing or cleaning, a 24" front clearance is required. Unit connections (electrical, flue and drain)
 may necessitate greater clearances than the minimum clearances listed above. In all cases, accessibility
 clearance must take precedence over clearances from the enclosure where accessibility clearances are greater.

³ Installer must supply one or two PVC pipes: one for combustion air (optional) and one for the flue outlet (required). Vent pipe must be either 2" or 3" in diameter, depending upon furnace input, number of elbows, length of run and installation (1 or 2 pipes). The optional Combustion Air Pipe is dependent on installation/code requirements and must be 2" or 3" diameter PVC.



		Air Return			Air Discharge
Model	A	В	С	D	E
GCVC960403BNB	17½"	14%"	14"	14½"	16"
GCVC960603BNB	17½"	14%"	14"	14½"	16"
GCVC960804CNB	21"	18¼"	17½"	18"	19½"
GCVC961005CNB	21"	181⁄8"	17½"	18"	19½"
GCVC961205DNB	24½"	21%"	21"	21½"	23"

MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS

Position	SIDES	REAR	FRONT	Воттом	FLUE	Тор
Downflow	0"	0"	3"	NC	0"	1"
Horizontal	6"	0"	3"	С	0"	6"

C = If placed on combustible floor, the floor MUST be wood ONLY.

NC = For installation on non-combustible floors only. A combustible floor sub-base must be used for installations on combustible flooring.

MINIMUM FILTER SIZES

	GCVC96	GCVC96	GCVC96	GCVC96	GCVC96
	0403BNB	0603BNB	0804CNB	1005CNB	1205DNB
Filter Size (in²) (Qty)	(2) 10 x 20	0 or (1) 16 x 25 (to	(1) 14 x 20 (1) 20 x 25	,	

Note: Other size filters of equal or greater dimensions may be used. Filters may also be centrally located.

MODEL/TEMP RISE RANGE (MID RISE)		0403BNB* 5 (50))603BNB*) (35)		0804CNB* 5 (40)		1005CNB* 5 (50)		.205DNB* 5 (50)
	CFM	RISE								
Recommended cfm for high heat / expected temperature rise	710	50	1400	38	1760	40	1770	50	2150	50
Lowest recommended cfm for hi heat / expected temperature rise	548	65	1072	50	1290	55	1360	65	1650	65
Maximum cfm for hi heat / expected temperature rise	1010	35	1400	38	1760	40	2200	40	2200	48

NOTE: Low Heat CFM = High Heat CFM X.7. Low Heat Temperature Rise Is Expected to Equal High Heat Temparatue Rise \pm 5%

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GCVC960403BNB* COOLING SPEED (@ .1" - .8" w.c. ESP)

Tons	HIGH-STAGE	LOW-STAGE CFM
1.5	600	420
2	800	560
2.5	1,000	700
3	1,200	840
MAX	1,400	

GCVC960804CNB* COOLING SPEED (@ .1" - .8" w.c. ESP)

Tons	HIGH-STAGE	LOW-STAGE CFM
2	800	560
2.5	1,000	700
3	1,200	840
4	1,600	1120
MAX	1,760	

GCVC960603BNB* COOLING SPEED (@ .1" - .8" w.c. ESP)

TONS	High-Stage	LOW-STAGE CFM
1.5	600	420
2	800	560
2.5	1,000	700
3	1,200	840
MAX	1,400	

GCVC961005CNB* COOLING SPEED (@ .1" - .8" w.c. ESP)

Tons	High-Stage	LOW-STAGE CFM
2	800	560
3	1,200	840
4	1,600	1,120
5	2,000	1,400
MAX	2,200	

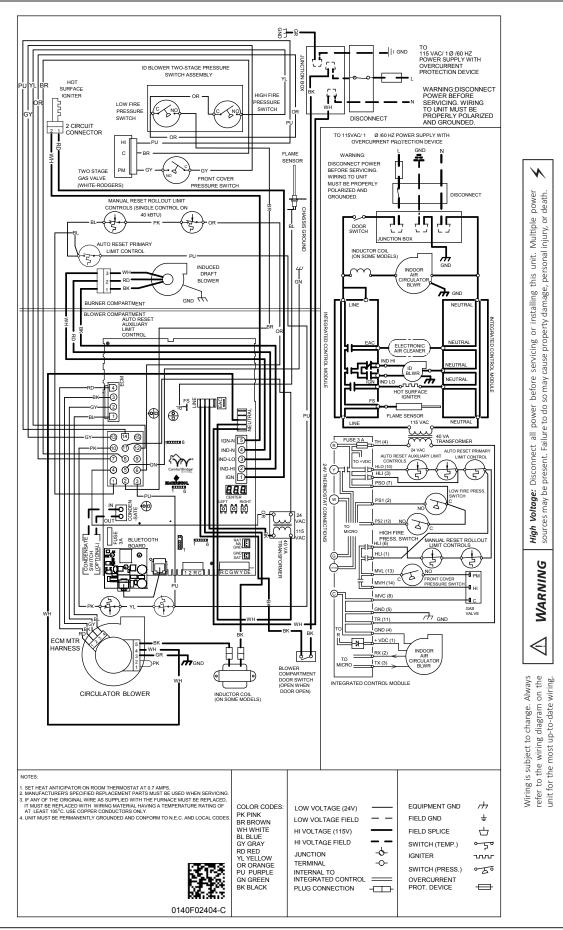
GCVC961205DNB* COOLING SPEED

(@ .1"8" w.c. ESP)		
Tons	HIGH-STAGE	LOW-STAGE CFM
2	800	560
3	1,200	840
4	1,600	1,120
5	2,000	1,400
MAX	2,200	

All furnaces ship as high speed for cooling. Installer must adjust blower speed as needed.

For most jobs, about 400 CFM per ton when cooling is desirable.

Do not operate above .5" w.c. ESP in heating mode. Operating CFM between .5" and .8" w.c. is tabulated for cooling purposes only.



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