



Air Conditioning & Heating

GMSS96 / GCSS96

HEATING INPUT: 40,000–120,000 BTU/H

SINGLE-STAGE, MULTI-SPEED

GAS FURNACE

UP TO 96% AFUE



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Standard Features

- Heavy-duty aluminized-steel tubular heat exchanger
- Stainless-steel secondary heat exchanger
- Single-stage gas valve
- Durable Silicon Nitride igniter
- Quiet single-speed induced draft blower
- Self-diagnostic control board with constant memory fault code history output to a LED
- All models comply with California 40 ng/J Low NOx emissions standard
- AHRI Certified; ETL Listed

Cabinet Features

- Designed for multi-position installation — GMSS96: upflow, horizontal left or right GCSS96: 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 ($Q_{Leak} \leq 2\%$)
- 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

LIFETIME HEAT EXCHANGER LIMITED WARRANTY

10 YEAR REPLACEMENT LIMITED WARRANTY

10 YEAR PARTS LIMITED WARRANTY



* Complete warranty details available from your local dealer or at www.amana-hac.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	M	S	S	96	060	3	B	N	**				
	1	2	3	4	5,6	7,8,9	10	11	12	13,14				
BRAND	G - Goodman® Brand											ENGINEERING		
												Major / Minor Revisions * Not used for inventory control.		
CONFIGURATION	M - Upflow/Horizontal C - Downflow/Horizontal											NOx		
												N - Low NOx		
MOTOR	V - Variable Speed ECM / ComfortNet E - Multi-Speed ECM S - Single Speed											CABINET WIDTH		
												B - 17½" C - 21" D - 24½"		
GAS VALVE	M - Modulating C - Two- Stage S - Single Stage											MAXIMUM CFM		
												2 - 800 CFM 3 - 1200 CFM 4 - 1600 CFM 5 - 2000 CFM		
AFUE	97 - 97% AFUE 92 - 92% AFUE		96 - 96% AFUE											MBTU/h
														040 - 40,000 BTU/h 060 - 60,000 BTU/h 120 - 120,000 BTU/h

	GMSS96 0402BNA	GMSS96 0603BNA	GMSS96 0803BNA	GMSS96 0804CNA	GMSS96 0805CNA	GMSS96 1005CNA	GMSS96 1205DNA
HEATING DATA							
High Fire Input ¹	40,000	60,000	80,000	80,000	80,000	100,000	120,000
High Fire Output ¹	38,400	57,600	76,800	76,800	76,800	96,000	115,200
AFUE ²	96	96	96	96	96	96	96
Temperature Rise Range (°F)	25 - 55	35 - 65	35 - 65	25 - 55	25 - 55	30 - 60	35 - 65
Vent Diameter ³	2" - 3"	2" - 3"	2" - 3"	2" - 3"	2" - 3"	2" - 3"	3"
No. of Burners	2	3	4	4	4	5	6
CIRCULATOR BLOWER							
Available AC @ 0.5" ESP	1.5 - 3	1.5 - 3	1.5 - 3	1.5 - 4	3 - 5	3 - 5	3 - 5
Size (D x W)	10" x 8"	10" x 8"	10" x 8"	10" x 10"	11" x 10"	11" x 10"	11" x 11"
Horsepower @ 1075 RPM	1/3	1/3	1/2	1/2	3/4	3/4	3/4
Speed	4	4	4	4	4	4	4
ELECTRICAL DATA							
Min. Circuit Ampacity ⁴	9.6	9.6	12.8	11.7	13.7	13.7	13.7
Max. Overcurrent Device (amps) ⁵	15	15	15	15	15	15	15
SHIPPING WEIGHT (LBS)							
	111	114	116	139	140	142	154

¹ Natural Gas BTU/h

² DOE AFUE based upon Isolated Combustion System (ICS)

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.

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 1/2" 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.

	GCSS96 0402BNA	GCSS96 0603BNA	GCSS96 0804CNA	GCSS96 1005CNA	GCSS96 1205DNA
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	95,000	114,000
AFUE ²	96	96	96	95	95
Temperature Rise Range (°F)	25 - 55	35 - 65	35 - 65	40 - 70	45 - 75
Vent Diameter ³	2" - 3"	2" - 3"	2" - 3"	2" - 3"	3"
No. of Burners	2	3	4	5	6
CIRCULATOR BLOWER					
Available AC @ 0.5" ESP	1.5 - 3	1.5 - 3	2.5 - 4	3 - 5	3 - 5
Size (D x W)	10" x 8"	10" x 8"	10" x 10"	11" x 10"	11" x 11"
Horsepower @ 1075 RPM	1/3	1/3	1/2	3/4	3/4
Speed	4	4	4	4	4
ELECTRICAL DATA					
Min. Circuit Ampacity ⁴	9.6	9.6	11.7	13.7	13.7
Max. Overcurrent Device (amps) ⁵	15	15	15	15	15
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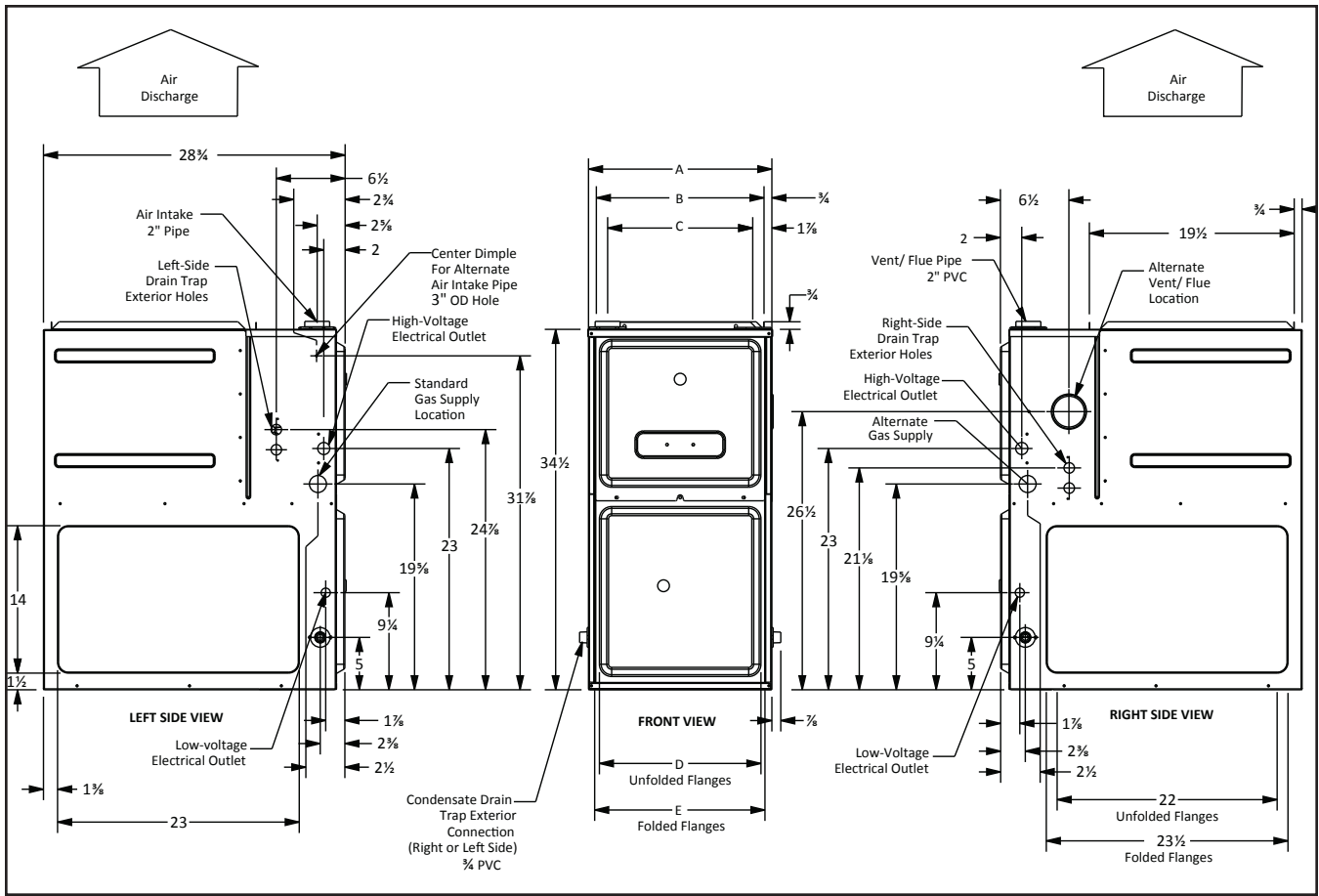
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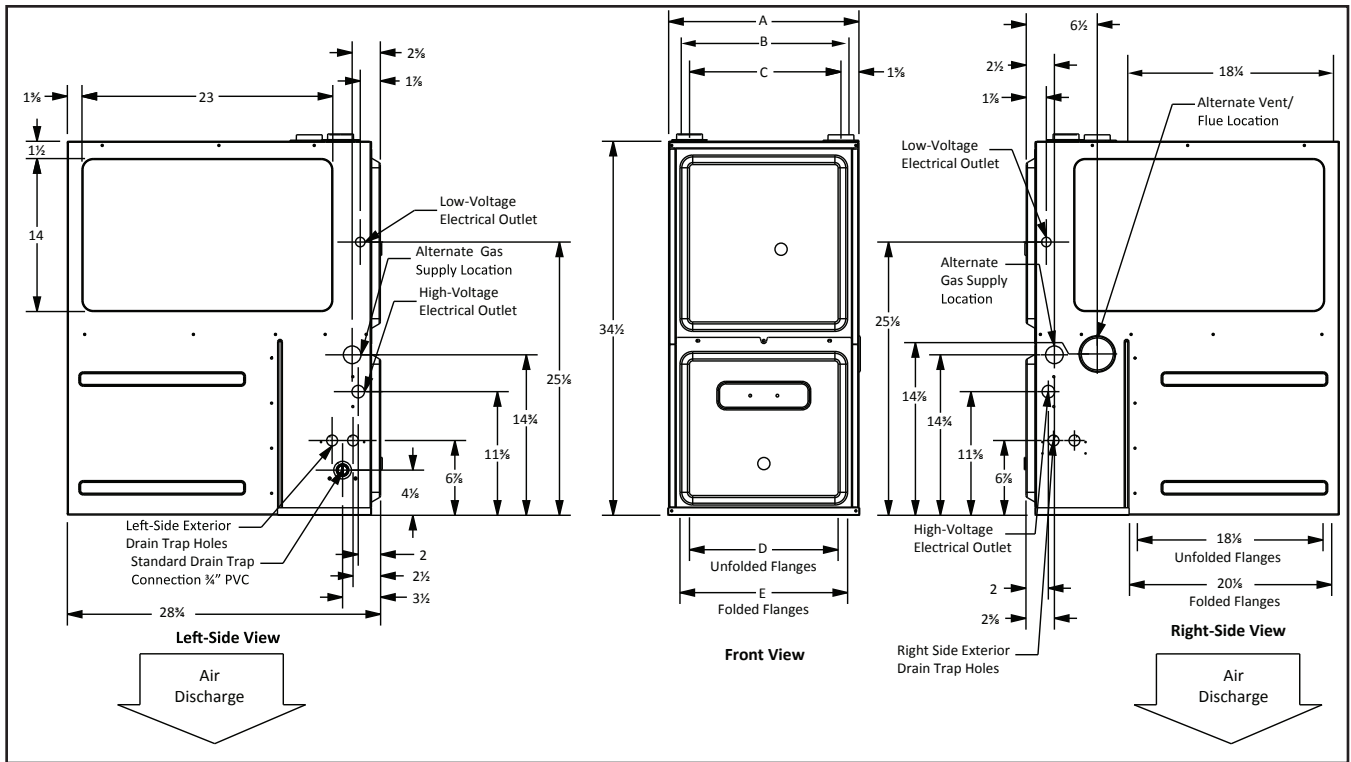
MODEL	W	D	H
GMSS960402BNA	17 1/2"	28 7/8"	34 1/2"
GMSS960603BNA	17 1/2"	28 7/8"	34 1/2"
GMSS960803BNA	17 1/2"	28 7/8"	34 1/2"
GMSS960804CNA	21"	28 7/8"	34 1/2"
GMSS960805CNA	21"	28 7/8"	34 1/2"
GMSS961005CNA	21"	28 7/8"	34 1/2"
GMSS961205DNA	24 1/2"	28 7/8"	34 1/2"

	AIR DISCHARGE			AIR RETURN	
	A	B	C	D	E
	17 1/2"	16"	13 7/8"	12 1/8"	13 5/8"
	17 1/2"	16"	13 7/8"	12 1/8"	13 5/8"
	17 1/2"	16"	13 7/8"	12 1/8"	13 5/8"
	21"	19 1/2"	17 7/8"	16"	17 1/2"
	21"	19 1/2"	17 7/8"	16"	17 1/2"
	21"	19 1/2"	17 7/8"	16"	17 1/2"
	24 1/2"	23"	20 7/8"	19 3/8"	20 7/8"

MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS

POSITION	SIDES	REAR	FRONT	BOTTOM	FLUE	TOP
Upflow	0"	0"	3"	C	0"	1"
Horizontal	6"	0"	3"	C	0"	6"

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



MODEL	AIR RETURN			AIR DISCHARGE	
	A	B	C	D	E
GCSS960402BNA	17½"	14¾"	14"	14½"	16"
GCSS960603BNA	17½"	14¾"	14"	14½"	16"
GCSS960804CNA	21"	18¾"	17½"	18"	19½"
GCSS961005CNA	21"	18¾"	17½"	18"	19½"
GCSS961205DNA	24½"	21¾"	21"	21½"	23"

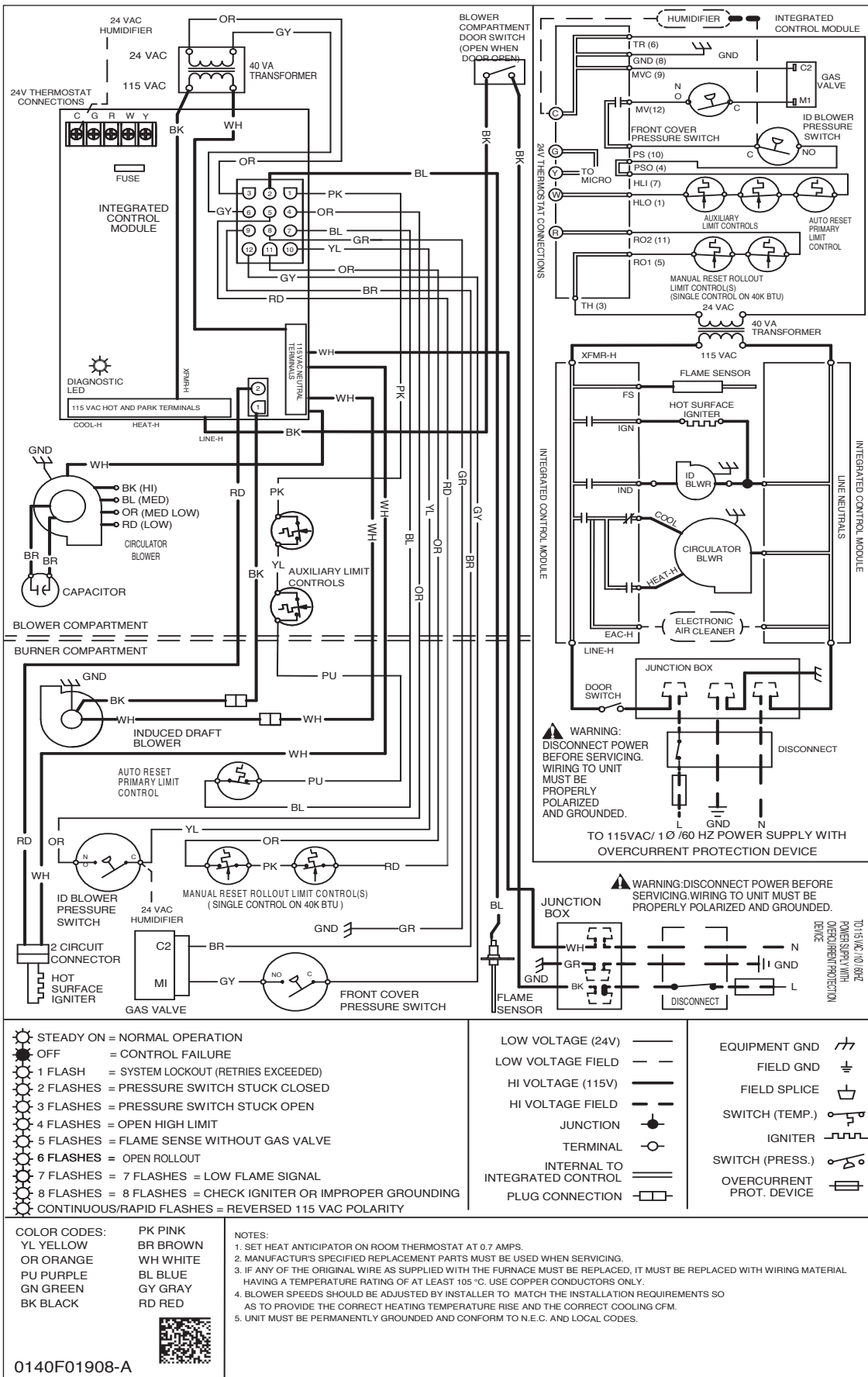
MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS

POSITION	SIDES	REAR	FRONT	BOTTOM	FLUE	TOP
Downflow	0"	0"	3"	NC	0"	1"
Horizontal	6"	0"	3"	C	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.

WIRING DIAGRAM



High Voltage: Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

WARNING

Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.