

Heating & Air Conditioning **Amana** LASTS AND LASTS AND LASTS.™

Product Data Book



92% AFUE

Heating Capacity:
46,000 - 115,000 BTUH

LIMITED WARRANTY

- 10-Year Replacement of Entire Unit if Heat Exchanger or Recuperative Coil Fails
- Lifetime—Heat Exchanger or Recuperative Coil
- 5-Year—Parts



Asure
EXTENDED SERVICE PLAN

**MILLION-AIR
HEAT EXCHANGER**

SureStart
SILICON NITRIDE IGNITER



GUVA/GCVA AIR COMMAND™

Gas Furnace

The GUVA/GCVA Air Command™ 2-stage, variable-speed gas furnace is the ultimate indoor comfort system. With its 2-stage gas valve, super-efficient, variable-speed circulator blower and extra-tough silicon nitride ignition system, the GUVA/GCVA provides uniform, comfortable temperature from room-to-room and floor-to-ceiling. The GUVA/GCVA runs longer at a reduced speed so air is circulated in your home quietly and constantly, allowing air filters to remove more impurities. Our quietest furnace delivers money-saving efficiencies up to 96% AFUE. The stainless steel heat exchanger and recuperative coil come with a lifetime limited replacement warranty. If either heat exchanger or recuperative coil should ever fail, the original owner will receive a new furnace.

40" Height simplifies installation in attics, closets and crawl spaces and leaves more room for high-efficiency air conditioning coils.

Multi-Position. The GUVA/GCVA furnaces can lay on their left or right sides by moving the location of a few internal components. Horizontal left or right airflow configurations in upflow models are allowed.

409 Stainless Steel Tubular Heat Exchanger. Patented long-lasting tubular design offers superior corrosion resistance and a lifetime limited warranty.

Stainless Steel Recuperative Coil is the key to achieving 90%+ efficiency. It captures the heat that escapes up the chimney in standard furnaces, and it extracts enough additional heat to produce up to 92% annual fuel utilization efficiencies (AFUE). All the tubes and front header plate are constructed of AL29-4C stainless steel for excellent corrosion resistance. Return air passes over the coil, causing water vapor in the exhaust to condense, giving up heat to the household air. Condensate drains to the front of the unit because of the coil's forward tilt, and then to the floor drain or other suitable location.

Multiple Safety Controls include rollout and auxiliary limit switches with manual reset, as well as a high-temperature limit switch with auto reset. In addition, there are dual automatic low-pressure switches (one for each stage). Remote flame sensor device ensures positive ignition.

Induced Draft Blower draws combustion air and mixes it with gas to deliver the precise gas/air mixture for optimum combustion efficiency. The induced draft feature restricts the vent during off cycles to minimize up-the-chimney heat loss and reduce outside air infiltration.

Integrated Electronic Control produces rapid, sure ignition and fast heating. Includes a control module and hot surface ignitor that heats to 2,500 °F for surefire ignition. The flame sensor proves ignition and constantly monitors burner operation for any interruption. Adjustable heating blower-off timing allows customized comfort settings. Should furnace need service, a blinking diagnostic light visible through a viewport alerts the homeowner to most problems without removing cabinet doors. In addition, installation of accessories, such as an electronic air cleaner and humidifier, are simplified by terminals provided on the control module.

Two-Stage Gas Valve maintains a consistent, comfortable and preferred temperature within the home, reducing temperature swings.

Venting. One PVC pipe is required for venting exhaust gases. A second pipe for combustion air is optional. These pipes must run parallel to each other, either vertically or horizontally. Under some conditions, insulation of one or both pipes may be required.

Variable-Speed Blower Motor. Allows a wide range of air flow options, while improving SEER ratings and lowering operating costs.

Efficient, Long Life Burners are specially designed for dependable operation on natural or propane gas. In-shot design with built-in cross-lighter eliminates need for adjustable air shutters.

Strong Steel Cabinet. The heavy steel cabinet provides strength for quiet, rattle-free operation. Foil-faced insulation lines the heat exchanger compartment to reduce heat loss and noise. On upflow models, the return air can be from left side, right side, or bottom or cabinet.

High-Quality Painted Steel Cabinet has a finish that is long-lasting and corrosion-resistant for years of dependable operation.

Quality Assurance. Our name has stood for quality for over 50 years. All of our products are fully tested to meet strict engineering standards and to assure you of a quality product. Every unit is individually leak-checked and functionally tested prior to shipment. The ISO 9001 registration is an internationally recognized standard of excellence. Our Fayetteville, Tenn., manufacturing facility, which builds this unit, was the first in the heating and air conditioning industry to be awarded this certificate of registration for quality assurance systems.

Product Data Book

GUVA Specifications

Model	High Fire Rates		Low Fire Rates		AFUE	Temp. Rise Range (°F)	Number of Burners	Minimum* Circuit Ampacity (Amps)	Maximum** Overcurrent Protection (Amps)	Circulator Blower		Tons AC @ 0.5" ESP	Pressure ¹ Switch Settings (Inches W.C.)			Shipping Weight (lbs)
	Input (BTU/Hr)	Output (BTU/Hr)	Input (BTU/Hr)	Output (BTU/Hr)						Size (D" x W")	HP		ID Blwr (Low)	ID Blwr (High)	Front Cover	
GUVA045BX30	46,000	44,300	32,000	30,800	96.0	30 - 60	2	10.4	15.0	11 X 7	1/2	1.5 - 3.0	-0.30	-0.75	-0.10	133
GUVA070BX40	69,000	66,900	48,000	46,400	95.5	30 - 60	3	12.8	15.0	11 X 9	3/4	1.5 - 4.0	-0.30	-0.75	-0.10	157
GUVA090BX50	92,000	88,800	64,000	61,700	95.7	30 - 60	4	14.6	15.0	11 X 10	1	2.0 - 5.0	-0.50	-1.10	-0.10	172
GUVA115BX50	115,000	111,100	80,000	77,400	95.8	35 - 65	5	14.6	15.0	11 X 10	1	2.0 - 5.0	-0.50	-1.10	-0.10	184

*Minimum Circuit Ampacity = (1.25 x Circulator Blower Amps) + ID Blower Amps.

**Maximum Overcurrent Protection refers to maximum recommended fuse or circuit breaker size.

1) As shipped for installations below 7000 ft.

2) For installation in Canada, gas furnaces are certified only to 4,500 ft.

GUVA Heating Speeds

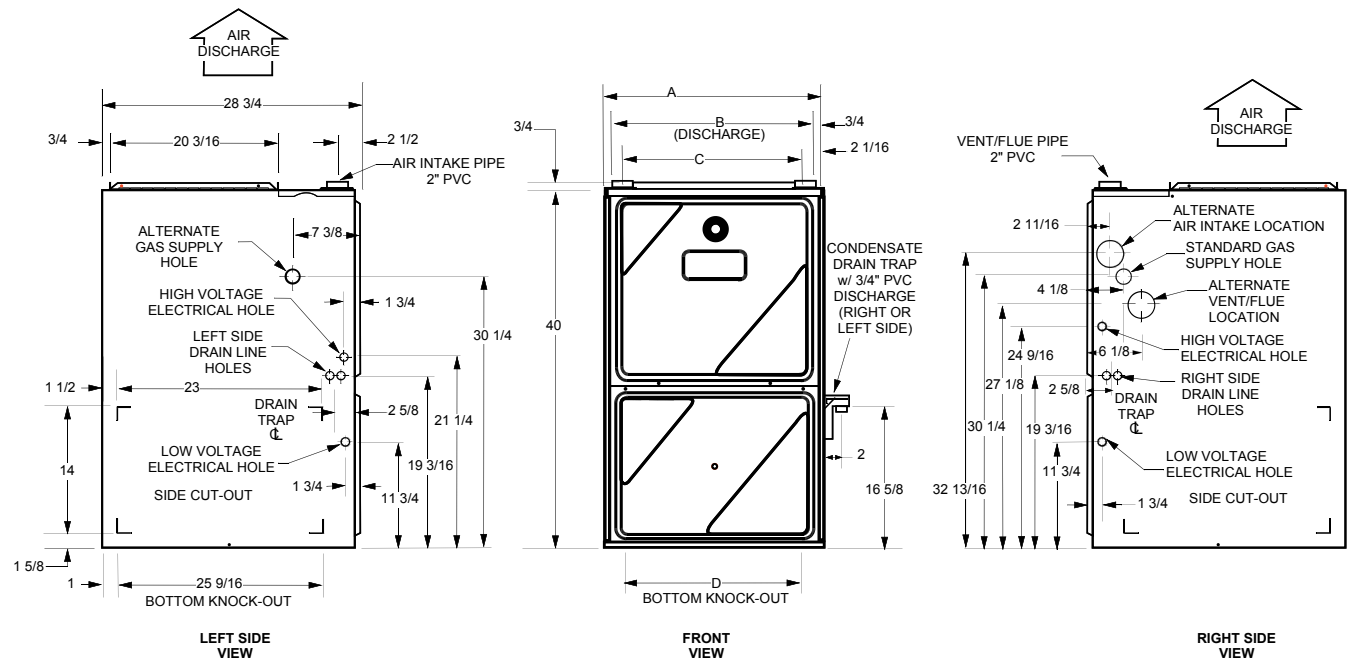
GUVA045BX30 (Rise Range: 30 - 60°F)				
Heating Speed Tap	Adjust Tap	Low Stage CFM @ .1" to .5" W.C. ESP	High Stage CFM @ .1" to .5" W.C. ESP	Rise (°F)
A	Minus (-)	495	713	57
	Normal	550	792	51
	Plus (+)	605	871	46
B	Minus (-)	540	778	52
	Normal	600	864	47
	Plus (+)	660	950	43
C	Minus (-)	585	842	48
	Normal	650	936	43
	Plus (+)	715	1030	39
D	Minus (-)	630	907	45
	Normal	700	1008	40
	Plus (+)	770	1109	36

GUVA070BX40 (Rise Range: 30 - 60°F)				
Heating Speed Tap	Adjust Tap	Low Stage CFM @ .1" to .5" W.C. ESP	High Stage CFM @ .1" to .5" W.C. ESP	Rise (°F)
A	Minus (-)	756	1089	56
	Normal	840	1210	50
	Plus (+)	924	1331	46
B	Minus (-)	828	1192	51
	Normal	920	1325	46
	Plus (+)	1012	1457	42
C	Minus (-)	900	1296	47
	Normal	1000	1440	42
	Plus (+)	1100	1584	38
D	Minus (-)	972	1400	43
	Normal	1080	1555	39
	Plus (+)	1188	1711	35

GUVA090BX50 (Rise Range: 30 - 60°F)				
Heating Speed Tap	Adjust Tap	Low Stage CFM @ .1" to .5" W.C. ESP	High Stage CFM @ .1" to .5" W.C. ESP	Rise (°F)
A	Minus (-)	1013	1458	56
	Normal	1125	1620	50
	Plus (+)	1238	1782	45
B	Minus (-)	1076	1549	52
	Normal	1195	1721	47
	Plus (+)	1315	1893	43
C	Minus (-)	1139	1639	49
	Normal	1265	1822	44
	Plus (+)	1392	2004	40
D	Minus (-)	1202	1730	47
	Normal	1335	1922	42
	Plus (+)	1469	2115	38

GUVA115BX50 (Rise Range: 35 - 65°F)				
Heating Speed Tap	Adjust Tap	Low Stage CFM @ .1" to .5" W.C. ESP	High Stage CFM @ .1" to .5" W.C. ESP	Rise (°F)
A	Minus (-)	1107	1594	63
	Normal	1230	1771	57
	Plus (+)	1353	1948	52
B	Minus (-)	1139	1639	62
	Normal	1265	1822	56
	Plus (+)	1392	2004	50
C	Minus (-)	1170	1685	60
	Normal	1300	1872	54
	Plus (+)	1430	2059	49
D	Minus (-)	1202	1730	58
	Normal	1335	1922	53
	Plus (+)	1469	2115	48

GUVA Dimensions



Cabinet Size	Units	A	B	C	D
Small	045__30	16½	15	12¾	12¾
Medium	070__40	20½	19	16¾	14¾
Large	090__50 115__50	24½	23	20¾	18¾

NOTES:

1. 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.
2. Line voltage wiring can enter through the right or left side of the furnace. Low voltage wiring can enter through the right or left side of furnace.
3. Conversion kits for high altitude natural gas operation are available. Contact your Amana distributor or dealer for details.
4. Installer must supply following gas line fittings, according to which entrance is used:
Left -- Two 90° Elbows, one close nipple, straight pipe
Right -- Straight pipe to reach gas valve

Service Accessibility and Unit Connections

MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS (INCHES)						
POSITION*	SIDES	FRONT	REAR	TOP	BOTTOM	FLUE
Upflow	0	3	0	1	C	0
Horizontal	6	3	0	6	C	0

1 All positioning is determined as installed unit is viewed from the front.
 C= If placed on combustible floor, floor MUST be wood ONLY.

- For servicing or cleaning, a 36" front clearance is required.
- Unit connections (electrical, flue and drain) may necessitate greater clearances than the minimum clearances listed below.

NOTE: In all cases, accessibility clearance must take precedence over clearances from the enclosure where accessibility clearances are greater.

GCVA Specifications

Model	High Fire Rates		Low Fire Rates		AFUE	Temp. Rise Range (°F)	Number of Burners	Minimum* Circuit Ampacity (Amps)	Maximum** Overcurrent Protection (Amps)	Circulator Blower		Tons AC @ 0.5" ESP	Pressure ³ Switch Settings (Inches W.C.)			Shipping Weight (lbs)
	Input (BTU/Hr)	Output (BTU/Hr)	Input (BTU/Hr)	Output (BTU/Hr)						Size (D" x W")	HP		ID Blower (Low)	ID Blower (High)	Front Cover	
GCVA070BX40	69,000	65,300	48,000	45,000	93.3	30 - 60	3	12.8	15.0	11 X 9	3/4	1.5 - 4.0	-0.20	-0.55	-0.37	157
GCVA090BX50	92,000	86,500	64,000	60,100	92.7	30 - 60	4	14.6	15.0	11 X 10	1	2.0 - 5.0	-0.20	-0.55	-0.37	172

*Minimum Circuit Ampacity = (1.25 x Circulator Blower Amps) + ID Blower Amps.

**Maximum Overcurrent Protection refers to maximum recommended fuse or circuit breaker size.

¹ As shipped for installations below 7000 ft.

² For installation in Canada, gas furnaces are certified only to 4,500 ft.

GCVA Heating Speeds

GCVA070BX40 (Rise Range: 30 - 60°F)				
Heating Speed Tap	Adjust Tap	Low Stage CFM @ .1" to .5" W.C. ESP	High Stage CFM @ .1" to .5" W.C. ESP	Rise (°F)
A	Minus (-)	747	1076	56
	Normal	830	1195	50
	Plus (+)	913	1315	46
B	Minus (-)	824	1186	51
	Normal	915	1318	46
	Plus (+)	1007	1449	42
C	Minus (-)	900	1296	47
	Normal	1000	1440	42
	Plus (+)	1100	1584	38
D	Minus (-)	978	1408	43
	Normal	1085	1562	39
	Plus (+)	1194	1719	35

GCVA090BX50 (Rise Range: 30 - 60°F)				
Heating Speed Tap	Adjust Tap	Low Stage CFM @ .1" to .5" W.C. ESP	High Stage CFM @ .1" to .5" W.C. ESP	Rise (°F)
A	Minus (-)	999	1439	56
	Normal	1110	1598	50
	Plus (+)	1221	1758	46
B	Minus (-)	1067	1536	52
	Normal	1185	1706	47
	Plus (+)	1303	1876	43
C	Minus (-)	1134	1633	49
	Normal	1260	1814	44
	Plus (+)	1386	1996	40
D	Minus (-)	1202	1730	46
	Normal	1335	1922	42
	Plus (+)	1469	2115	38

NOTES:

- These charts are for furnaces installed at 0 - 2000 ft. At higher altitudes, a properly derated unit will have the same temperature rise at a particular CFM, while the ESP at that CFM will be lower.
- The installation must be adjusted to obtain a temperature rise within the range listed on the furnace nameplate.
- Do not operate above .5" W.C. ESP in heating mode.
- Propane gas installations will have a High Stage rise approximately 4°F lower than shown in above tables.

GUVA High- or Single-Stage Cooling Speeds

Single-Stage Cooling: "Y" From T-Stat to "Y" on Two-Stage Integrated Control Module

Two-Stage Cooling (High Stage): "Y2" From T-Stat to "Y/Y2" on Circulator Blower Interface Board

GUVA045BX30			GUVA070BX40			GUVA090BX50			GUVA115BX50		
Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP	Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP	Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP	Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP
A	Minus (-)	540	A	Minus (-)	540	A	Minus (-)	720	A	Minus (-)	720
	Normal	600		Normal	600		Normal	800		Normal	800
	Plus (+)	660		Plus (+)	660		Plus (+)	880		Plus (+)	880
B	Minus (-)	720	B	Minus (-)	720	B	Minus (-)	990	B	Minus (-)	990
	Normal	800		Normal	800		Normal	1100		Normal	1100
	Plus (+)	880		Plus (+)	880		Plus (+)	1210		Plus (+)	1210
C	Minus (-)	900	C	Minus (-)	990	C	Minus (-)	1260	C	Minus (-)	1260
	Normal	1000		Normal	1100		Normal	1400		Normal	1400
	Plus (+)	1100		Plus (+)	1210		Plus (+)	1540		Plus (+)	1540
D	Minus (-)	1080	D	Minus (-)	1286	D	Minus (-)	1620	D	Minus (-)	1620
	Normal	1200		Normal	1429		Normal	1800		Normal	1800
	Plus (+)	1320		Plus (+)	1572		Plus (+)	1980		Plus (+)	1980

- 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.

GUVA Low-Stage Cooling Speeds

GUVA045BX30			GUVA070BX40			GUVA090BX50			GUVA115BX50		
Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP	Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP	Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP	Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP
A	Minus (-)	380*	A	Minus (-)	378*	A	Minus (-)	513*	A	Minus (-)	514*
	Normal	390		Normal	390		Normal	520		Normal	520
	Plus (+)	429		Plus (+)	429		Plus (+)	572		Plus (+)	572
B	Minus (-)	468	B	Minus (-)	468	B	Minus (-)	644	B	Minus (-)	644
	Normal	520		Normal	520		Normal	715		Normal	715
	Plus (+)	572		Plus (+)	572		Plus (+)	787		Plus (+)	787
C	Minus (-)	585	C	Minus (-)	644	C	Minus (-)	819	C	Minus (-)	819
	Normal	650		Normal	715		Normal	910		Normal	910
	Plus (+)	715		Plus (+)	787		Plus (+)	1001		Plus (+)	1001
D	Minus (-)	702	D	Minus (-)	836	D	Minus (-)	1053	D	Minus (-)	1053
	Normal	780		Normal	929		Normal	1170		Normal	1170
	Plus (+)	858		Plus (+)	1022		Plus (+)	1287		Plus (+)	1287

- 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.

Two-Stage Cooling (Low Stage): "Y1" From T-Stat to "Y1" on Circulator Blower Interface Board

GUVA Cooling-Based Continuous Fan

Option B: "G" From T-Stat to "Y1" on Circulator Blower Interface Board

(NOTE: Only applicable for installations with single-stage cooling only, or no cooling.)

GUVA045BX30			GUVA070BX40			GUVA090BX50			GUVA115BX50		
Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP	Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP	Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP	Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP
A	Minus (-)	380*	A	Minus (-)	380*	A	Minus (-)	513*	A	Minus (-)	514*
	Normal	380*		Normal	380*		Normal	513*		Normal	514*
	Plus (+)	380*		Plus (+)	380*		Plus (+)	513*		Plus (+)	514*
B	Minus (-)	403	B	Minus (-)	403	B	Minus (-)	554	B	Minus (-)	554
	Normal	448		Normal	448		Normal	616		Normal	616
	Plus (+)	493		Plus (+)	493		Plus (+)	678		Plus (+)	678
C	Minus (-)	504	C	Minus (-)	554	C	Minus (-)	706	C	Minus (-)	706
	Normal	560		Normal	616		Normal	784		Normal	784
	Plus (+)	616		Plus (+)	678		Plus (+)	862		Plus (+)	862
D	Minus (-)	505	D	Minus (-)	720	D	Minus (-)	907	D	Minus (-)	907
	Normal	672		Normal	800		Normal	1008		Normal	1008
	Plus (+)	739		Plus (+)	880		Plus (+)	1109		Plus (+)	1109

- 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.

* Motor CFM floor

GCVA High- or Single-Stage Cooling Speeds

GCVA070BX40			GCVA090BX50		
Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP	Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP
A	Minus (-)	540	A	Minus (-)	720
	Normal	600		Normal	800
	Plus (+)	660		Plus (+)	880
B	Minus (-)	720	B	Minus (-)	990
	Normal	800		Normal	1100
	Plus (+)	880		Plus (+)	1210
C	Minus (-)	990	C	Minus (-)	1260
	Normal	1100		Normal	1400
	Plus (+)	1210		Plus (+)	1540
D	Minus (-)	1286	D	Minus (-)	1620
	Normal	1429		Normal	1800
	Plus (+)	1572		Plus (+)	1980

- 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
- *Motor CFM minimum

GCVA Low-Stage Cooling Speeds

GCVA070BX40			GCVA090BX50		
Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP	Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP
A	Minus (-)	378*	A	Minus (-)	513*
	Normal	390		Normal	520
	Plus (+)	429		Plus (+)	572
B	Minus (-)	468	B	Minus (-)	644
	Normal	520		Normal	715
	Plus (+)	572		Plus (+)	787
C	Minus (-)	644	C	Minus (-)	819
	Normal	715		Normal	910
	Plus (+)	787		Plus (+)	1001
D	Minus (-)	836	D	Minus (-)	1053
	Normal	929		Normal	1170
	Plus (+)	1022		Plus (+)	1287

- 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
- *Motor CFM minimum

GCVA Cooling-Based Continuous Fan

GCVA070BX40		
Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP
A	Minus (-)	380*
	Normal	380*
	Plus (+)	380*
B	Minus (-)	403
	Normal	448
	Plus (+)	493
C	Minus (-)	554
	Normal	616
	Plus (+)	678
D	Minus (-)	720
	Normal	800
	Plus (+)	880

GCVA090BX50		
Cooling Speed Tap	Adjust Tap	CFM @ .1" to .8" W.C. ESP
A	Minus (-)	513*
	Normal	513*
	Plus (+)	513*
B	Minus (-)	554
	Normal	616
	Plus (+)	678
C	Minus (-)	706
	Normal	784
	Plus (+)	862
D	Minus (-)	907
	Normal	1008
	Plus (+)	1109

- Do not operate above .5" W.C. ESP in heating mode
- *Motor CFM minimum

Product Data Book

Coil Matches (for Amana Split-Systems using R-22):

A large array of coils are available for use with the GUVA/GCVA furnaces, in either upflow/downflow or horizontal applications. These coils are available in both cased and uncased models, with or without a TXV expansion device. Matching the new 92%+ furnaces with the existing coils (as shown in the chart below) improves SEER rating and air conditioning system efficiency.

Btuh Input	Cabinet Width	Air Flow (tons)	CHA_F*C Cased A-Coils	CCA_FSC Uncased A-Coils	CHA_TCC Cased TXV A-Coils	CHA_TSC Uncased TXV A-Coils	CCF_F*C Horiz. A-Coils	CHF_TCC Horiz. TXV A-Coils
45,000	16½"	1½ - 3	CCA18FCC CCA24FCC CCA30FCC CCA36FCC CCA42FCC	CCA18FSC CCA24FSC CCA30FSC CCA36FSC CCA42FSC	CHA18TCC CHA24TCC CHA30TCC CHA36TCC	CHA18TSC CHA24TSC CHA30TSC CHA36TSC	CCF24FCC CCF30FCC CCF36FCC	CHF18TCC CHF24TCC CHF30TCC
70,000	20½"	2½ - 4	CCA30FDC CCA36FDC CCA42FDC CCA48FCC	CCA48FSC	CHA42TCC	CHA42TSC	CCF24FDC CCF36FDC CCF42FCC CCF48FCC	CHF36TCC CHF42TCC
90,000	24½"	3 - 5	CCA36FKC CCA48FDC CCA54FCC CCA57FCC CCA60FCC	CCA54FSC CCA57FSC CCA60FSC	CHA48TCC CHA54TCC CHA57TCC CHA60TCC	CHA48TSC CHA54TSC CHA57TSC CHA60TSC	CCF48FDC CCF60FCC CCF61FCC	CHF48TCC CHF60TCC
115,000	24½"	3 - 5						

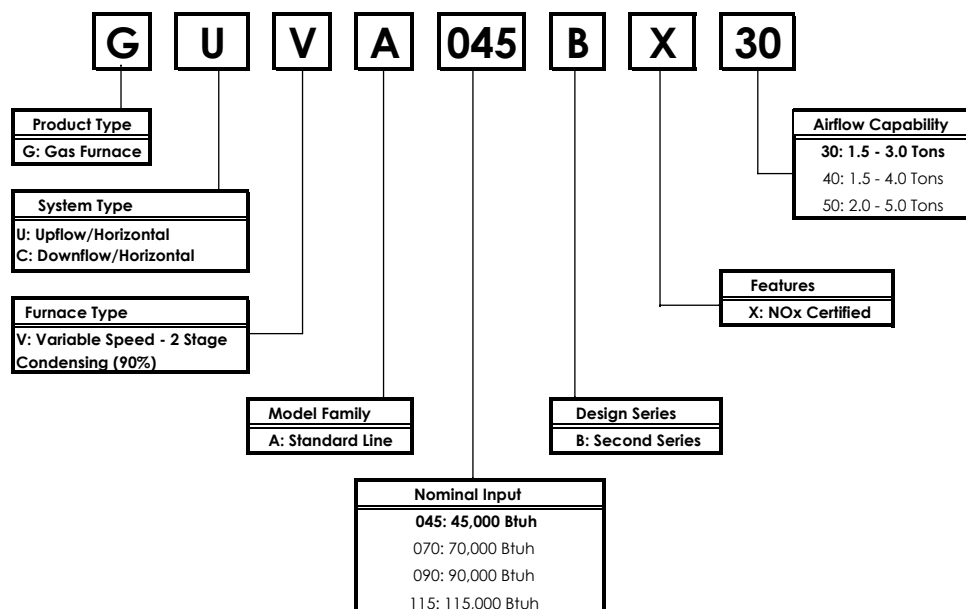
Shaded columns are for GUVA only.

Coil Matches* (for the Amana RSD unit using R-410A):

BTUH Input	Cabinet Width	Air Flow (tons)	CA_FCA Cased A-Coils	CF_FCA Horizontal A-Coils
45,000	16½"	1½ - 3	CA36FCA	CF30FCA
70,000	20½"	2½ - 4	CA42FCA	CF36FCA
90,000	24½"	3 - 5	CA48FCA CA57FCA	CF48FCA CF60FCA
115,000	24½"	3 - 5		

* For GCVA only

Nomenclature



Filters

Filters are required with this furnace and must be provided by the installer. The filters used must comply with UL900 or CAN/ULCS111 standards. Installing this furnace without filters will void the unit warranty. The GUYA furnace has provisions for the installation of return air filters at the side and/or bottom return. The furnace will accommodate the filter sizes at right, depending on cabinet size.

Disposable Minimum Filter Area (in²)

		Cooling Airflow Requirement (CFM)						
		600	800	1000	1200	1400	1600	2000
Model (Input Airflow)	GUVA045__30	376*	384	480	576	---	---	---
	GUVA070__40	---	---	627*	627*	672	768	---
	GUVA090__50	---	---	---	836*	836*	836*	960
	GUVA115__50	---	---	---	940*	940*	940*	960
	GCVA070__40	---	---	641*	641*	672	768	---
	GCVA090__50	---	---	---	854*	854*	854*	960

Based on a 300'/min filter face velocity

* Minimum filter area dictated by heating air flow requirement.

Permanent Minimum Filter Area (in²)

		Cooling Airflow Requirement (CFM)						
		600	800	1000	1200	1400	1600	2000
Model (Input Airflow)	GUVA045__30	376*	384	480	576	---	---	---
	GUVA070__30	---	564*	564*	564*	672	---	---
	GUVA070__40	---	---	564*	564*	672	768	---
	GUVA090__40	---	---	752*	752*	752*	768	---
	GUVA090__50	---	---	---	752*	752*	768	960
	GUVA115__50	---	---	---	940*	940*	940*	960
	GCVA070__40	---	---	320*	320*	336	384	---
	GCVA090__50	---	---	---	427*	427*	427*	480

Based on a 600'/min filter face velocity

* Minimum filter area dictated by heating air flow requirement.

GUVA (Upflow) Filters

Side Return(s)		
Cabinet Width (in.)	Nominal Filter Size (in.)	Approx. Flow Area (in ²)
All	16 x 25 x 1	400

Bottom Return		
Cabinet Width (in.)	Nominal Filter Size (in.)	Approx. Flow Area (in ²)
16½	14 x 25 x 1	350
20½	16 x 25 x 1	400
24½	20 x 25 x 1	500

GCVA (Downflow) Filters

Downflow Top Return				
Cabinet Width	Filter Area (in ²)	Qty	Filter Size (in)	Dimension "A" (in)
16 1/2	600	2	15 X 20 X 1	14.2
20 1/2				13.0
24 1/2				11.3
16 1/2	800	2	20 X 20 X 1	19.7
20 1/2				18.8
24 1/2				17.7
16 1/2	1000	2	25 X 20 X 1	25.0
20 1/2				24.3
24 1/2				23.4

Product Data Book

Accessories

Model	Description	GUVA045ABX30	GUVA070BX40	GUVA090BX50	GUVA115BX50	GCVA070BX40	GCVA090BX50
LPTK09	Propane Gas Conversion Kit	1	1	1	1	1	1
EAC5	Electronic Air Cleaner	✓	✓	✓	✓	✓	✓
FFK03A	Fossil Fuel Kit	✓	✓	✓	✓	✓	✓
DEHUM1	Dehumidistat	✓	✓	✓	✓	✓	✓
MAC1	Media Air Cleaner	✓	✓	✓	✓	✓	✓
HAPS28	High Altitude Pressure Switch Kit	2	2				
HAPS29	High Altitude Pressure Gas Kit			2	2		
HALP11	High Altitude Propane Gas Kit	2	2	2	2		
HANG 13	High Altitude Natural Gas Kit	3	3	3	3		
HANG 14	High Altitude Natural Gas Kit	4	4	4	4		
EFR01	External Filter Rack	✓	✓	✓	✓	✓	✓
HCVK	Horizontal Concentric Vent Kit	✓	✓	✓	✓	✓	✓
VCVK	Vertical Concentric Vent Kit	✓	✓	✓	✓	✓	✓

1) All Models up to 7,000'

2) 7,001' to 11,000'

3) 7,001' to 9,000'

4) 9,001' to 11,000'

NOTE: All installations above 7,000' require a pressure switch change.

For installation in Canada, gas furnaces are certified only to 4,500 ft.

Thermostats

Thermostat	Man/Auto	Programmable	Cool	Heat	Batt. Powered	Batt. Bkup*	Shape	Color
1213411	Man. Changeover	No	1	2	No	No	Rectangular	White
1213407	Man. Changeover	Yes	1	2	No	No	Rectangular	White
1213406*	Man. Or Auto	Yes	2	3	No	Yes	Rectangular	Beige

*1213406 is the recommended model for GUVA/GCVA furnaces when used with the heat pump in a fossil fuel application. It is NOT for use with the GUVA/GCVA as a sole heating source. 1213406 thermostats are 24V powered with battery backup. Please See Accessories Section for complete thermostat listing.

Standard Altitude Installations:

Gas	Altitude	Kit	Orifice	Manifold Pressure		Pressure Switch Change
				High Stage	Low Stage	
Natural	0-7000 Changeover	None	#43	3.5" W.C.	1.9" W.C.	None
Propane	0-7000	LPTK09	#55	10.0" W.C.	6.0" W.C.	None

For installation in Canada, gas furnaces are certified only to 4,500 ft.

For GCVA installations above 7,000 ft., please refer to your Amana distributor for required kit(s).

Shading indicates for GCVA only

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Form: PDB-GUVA/GCVA