

HEATING · AIR CONDITIONING

State-of-the-art technology delivers gas heating efficiencies of 95%+

Features:

40" Height The Air Command® 95 IIQ is a full 8" shorter than older models, a space savings of over 2 to 3 cubic feet. This translates into easier installation and more room for high efficiency air conditioning coils.

Multi-Position. The Air Command® 95 IIQ Amana furnaces can be installed on the left or right sides to allow for horizontal left or right airflow configurations.

Air Command® 95 IIQ Heat Exchanger, constructed of durable 409 stainless steel, is reliable and highly effective. The compact dual diameter tubular construction provides excellent heat transfer for increased operating efficiency. Its unique design allows efficient gas heating on either natural or propane gas.

Stainless Steel Recuperative Coil is the key to achieving 95% plus efficiency. It captures the heat that escapes up the chimney in standard furnaces, and extracts enough additional heat to produce over 95% 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 assures positive ignition.

Induced Draft Blower Motor System Quiet 2-speed induced draft blower ensures burned gases vent properly. When furnace is off, warm house air is blocked from going up the flue. Net result is increased savings for homeowner.

Electronic Controls Most furnace systems once handled by separate relays and switches are now operated by one electronic control board. Pilot flames are eliminated through use of a hot surface ignitor. Instant Safety shutoff occurs if flame is not sensed. Adjustable blower-off timing allows customized settings. Should furnace need service, a blinking diagnostic light visible through a viewport can alert 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. No extra transformer is needed to add air conditioning. Low speed continuous fan reduces electrical consumption in continuous fan operation.

Two-Stage Gas Valve maintains the precise amount of gas for optimum comfort and efficiency at any furnace setting.

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.

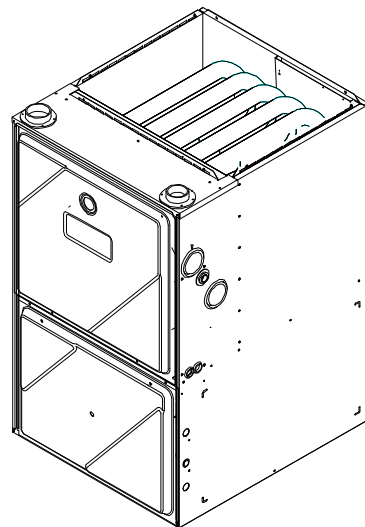
Efficient, Long Life Burners are specially designed for dependable operation on natural or propane gas. In-shot design with built-in cross-lighter eliminates need for adjustable air shutters.

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 of cabinet.

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

Quality Assurance The Amana name stands for quality and has for over 50 years. All Amana products are fully tested to meet strict engineering standards and to assure you of a quality product. Every unit is functionally tested prior to shipment. The **ISO 9001** registration is an internationally recognized standard of excellence. Amana's Fayetteville, Tennessee facility, which builds this product, was the first in the heating and air conditioning industry awarded this certificate of registration for quality management systems.

45,000 through 115,000 Btuh Heating Inputs
1½ to 5 Tons Add-on Cooling



As an **Energy Star Partner**, Amana Heating and Air Conditioning has determined that the Air Command® 95 Furnace meets the Energy Star Guidelines for energy efficiency.

**LIFETIME LIMITED
WARRANTY
REPLACEMENT OF
ENTIRE UNIT
IF HEAT EXCHANGER
OR
RECUPERATOR COIL FAILS
5-YEAR LIMITED WARRANTY
PARTS**

Warranty can be further enhanced

by asking for the **Amana**
Asure
EXTENDED SERVICE PLAN

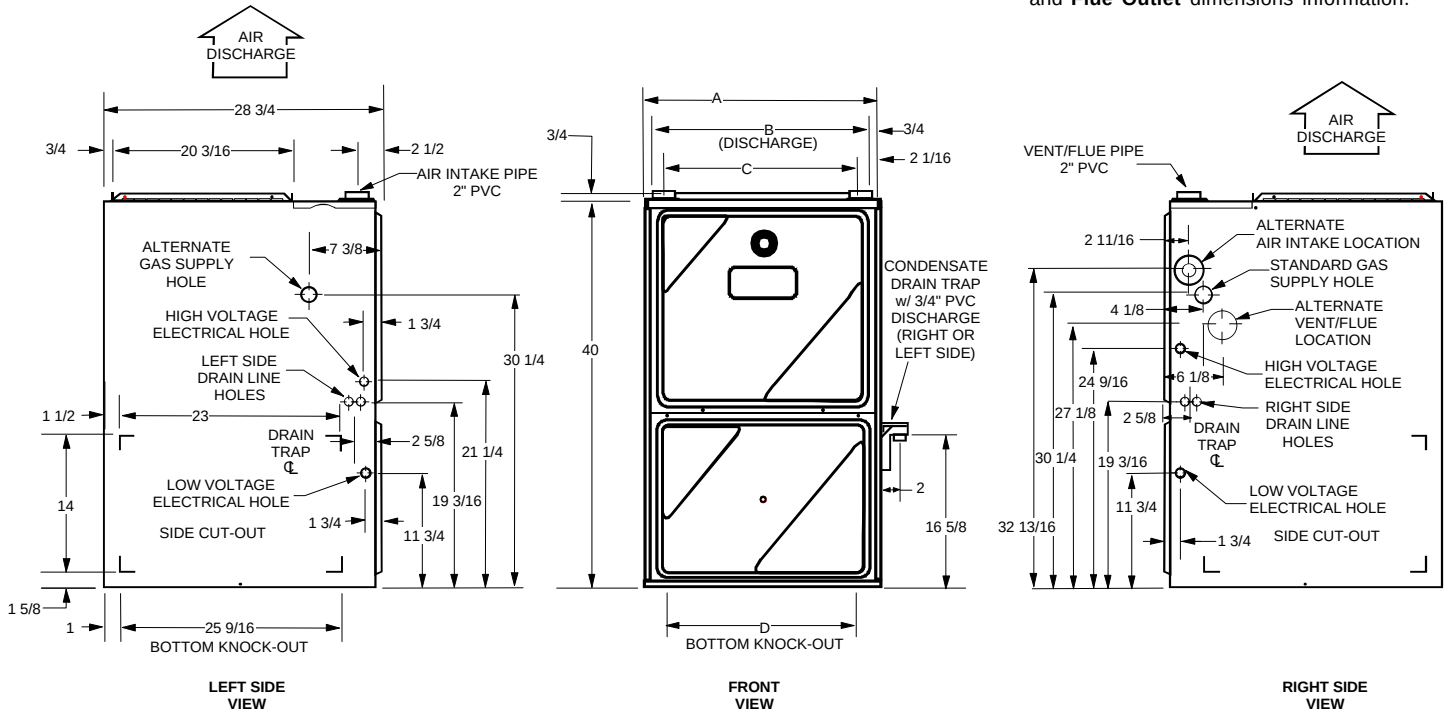
**Ask your Amana representative
for details!**



Dimensions:

GUVA

See **NOTE 1** below for **Combustion Air Inlet** and **Flue Outlet** dimensions information.



Cabinet Size	Units	A	B	C	D
Small	045__30	16-1/2	15	12-3/8	12-5/8
Medium	070__40	20-1/2	19	16-3/8	14-5/8
Large	090__50	24-1/2	23	20-3/8	18-5/8
	115__50				

Service Accessibility and Unit Connections

- 36 inches front clearance is required for servicing or cleaning.
- 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.

NOTES:

- 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.
- 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.
- Conversion kits for high altitude operation are available. Contact your Amana distributor or dealer for details.
- 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

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

* = All positioning is determined as installed unit is viewed from the front.

NOTE:

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

When used in the direct vent mode, the Amana **Air Command® 95 IIQ** gas furnace is uniquely designed to pull combustion air from outside to use in heating your home. By doing so, your furnace won't be damaged by contaminated indoor air and you can enjoy a cleaner, safer environment.

Model Number	High Fire Rates		Low Fire Rates		Rated AFUE	Temp. Rise Range (°F)	Number of Burners	Minimum* Circuit Ampacity (Amps)	Maximum** Overcurrent Protection (Amps)	Circulator Blower		Tons AC at 0.5" ESP	Pressure ¹ Switch Settings			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, the Amana GUVA Furnace is certified only to 4,500 ft.

GUVA045BX30 (Rise Range: 30 - 60°F)				
Heating Speed Tap	Adjust Tap	Low Stage CFM at .1" to .5" w.c. ESP	High Stage CFM at .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

GUVA090BX50 (Rise Range: 30 - 60°F)				
Heating Speed Tap	Adjust Tap	Low Stage CFM at .1" to .5" w.c. ESP	High Stage CFM at .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

GUVA070BX40 (Rise Range: 30 - 60°F)				
Heating Speed Tap	Adjust Tap	Low Stage CFM at .1" to .5" w.c. ESP	High Stage CFM at .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

GUVA115BX50 (Rise Range: 35 - 65°F)				
Heating Speed Tap	Adjust Tap	Low Stage CFM at .1" to .5" w.c. ESP	High Stage CFM at .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

High or Single Stage Cooling Speed Charts:

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 at .1" to .8" w.c. ESP	Cooling Speed Tap	Adjust Tap	CFM at .1" to .8" w.c. ESP	Cooling Speed Tap	Adjust Tap	CFM at .1" to .8" w.c. ESP	Cooling Speed Tap	Adjust Tap	CFM at .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.

Low Stage Cooling Speed Charts:

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

GUVA045BX30			GUVA070BX40			GUVA090BX50			GUVA115BX50		
Cooling Speed Tap	Adjust Tap	CFM at .1" to .8" w.c. ESP	Cooling Speed Tap	Adjust Tap	CFM at .1" to .8" w.c. ESP	Cooling Speed Tap	Adjust Tap	CFM at .1" to .8" w.c. ESP	Cooling Speed Tap	Adjust Tap	CFM at .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.

Cooling-Based Continuous Fan Chart (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 at .1" to .8" w.c. ESP	Cooling Speed Tap	Adjust Tap	CFM at .1" to .8" w.c. ESP	Cooling Speed Tap	Adjust Tap	CFM at .1" to .8" w.c. ESP	Cooling Speed Tap	Adjust Tap	CFM at .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.

Coil Matches:

A large array of Amana coils are available for use with the new GUA furnaces, in either upflow or horizontal applications. These coils are available in both cased and uncased models, with or without a TXV expansion device. Matching the new 95%+ furnaces with the existing Amana 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	16 1/2"	1 1/2 - 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	20 1/2"	2 1/2 - 4	CCA30FDC CCA36FDC CCA42FDC CCA48FCC	CCA48FSC	CHA42TCC	CHA42TSC	CCF24FDC CCF36FDC CCF42FCC CCF48FCC	CHF36TCC CHF42TCC
90,000	24 1/2"	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	24 1/2"	3 - 5						

Filters:

The GUV A 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.

NOTE: Filters are required with this furnaces 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.

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)
16-1/2	14 x 25 x 1	350
20-1/2	16 x 25 x 1	400
24-1/2	20 x 25 x 1	500

Disposable Minimum Filter Area (in²)

		Cooling Airflow Requirement (CFM)						
		600	800	1000	1200	1400	1600	2000
Model (Input_Airflow)	045__30	376*	384	480	576	---	---	---
	070__40	---	---	627*	627*	672	768	---
	090__50	---	---	---	836*	836*	836*	960
	115__50	---	---	---	940*	940*	940*	960

(Based on a 300 ft./min filter face velocity)

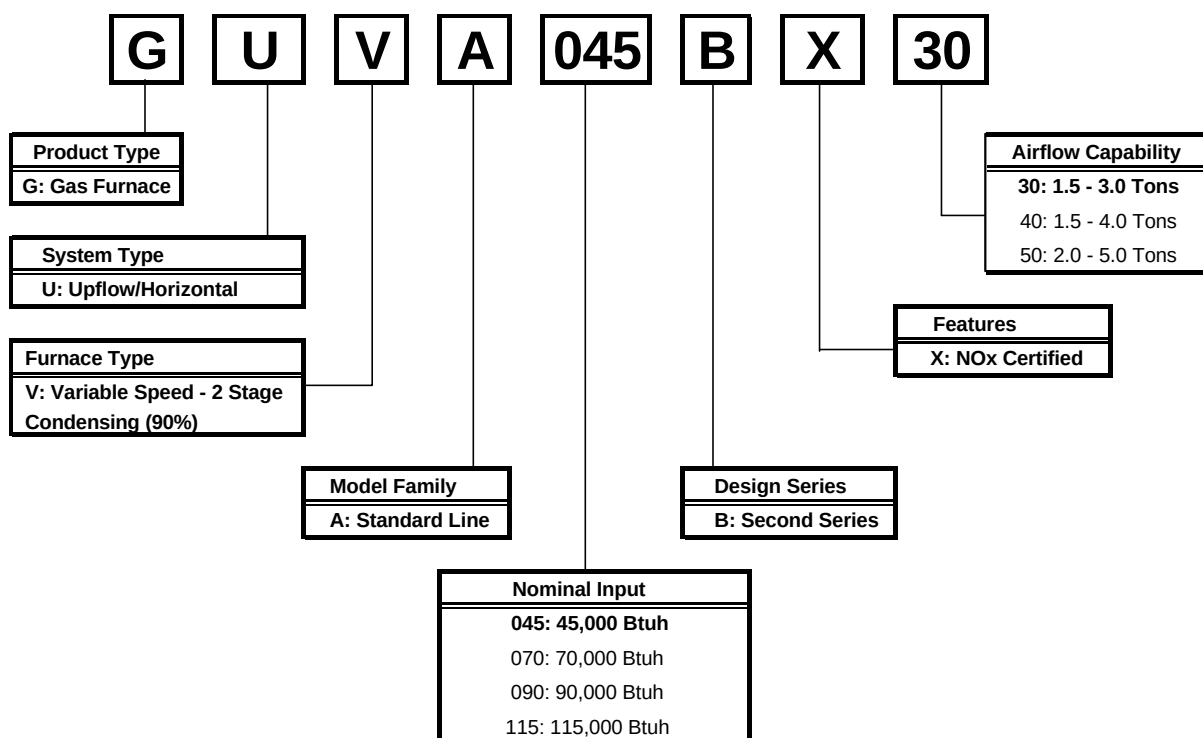
Permanent Minimum Filter Area (in²)

		Cooling Airflow Requirement (CFM)						
		600	800	1000	1200	1400	1600	2000
Model (Input_Airflow)	045__30	376*	384	480	576	---	---	---
	070__30	---	564*	564*	564*	672	---	---
	070__40	---	---	564*	564*	672	768	---
	090__40	---	---	752*	752*	752*	768	---
	090__50	---	---	---	752*	752*	768	960
	115__50	---	---	---	940*	940*	940*	960

(Based on a 600 ft./min filter face velocity)

* Minimum filter area dictated by heating airflow requirement.

Model Number Guide:



Accessories:

Accessories		Used With			
Model Number	Description	GUVA045ABX30	GUVA070BX40	GUVA090BX50	GUVA115BX50
LPTK09	Propane Gas Conversion Kit	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	✓	✓	✓	✓
VCKV	Vertical Concentric Vent Kit	✓	✓	✓	✓

¹ All Models up to 7,000 ft. ² 7,001 ft. TO 11,000 ft. ³ 7,001 ft. to 9,000 ft. ⁴ 9,001 ft. to 11,000 ft. NOTE: All installations above 7,000 ft. require a pressure switch change. For installation in Canada the Amana GUVA Furnace is certified only to 4,500 ft.

Thermostats:

The following Amana Thermostats are suggested for use with the GUVA Furnace Models.

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 furnaces when used with a heat pump in a fossil fuel application. It is NOT for use with the GUVA as a sole heating source. 1213406 thermostats are 24V powered with batter backup.

Standard Altitude Installations:

Gas	Altitude (ft)	Kit	Orifice	Manifold Pressure	Pressure Switch Change
Natural	0-7000	None	#43	3.5" w.c.	None
Propane		LPTK09	#55	10.0" w.c.	None

Note: In Canada, gas furnaces are certified to 4,500 feet.