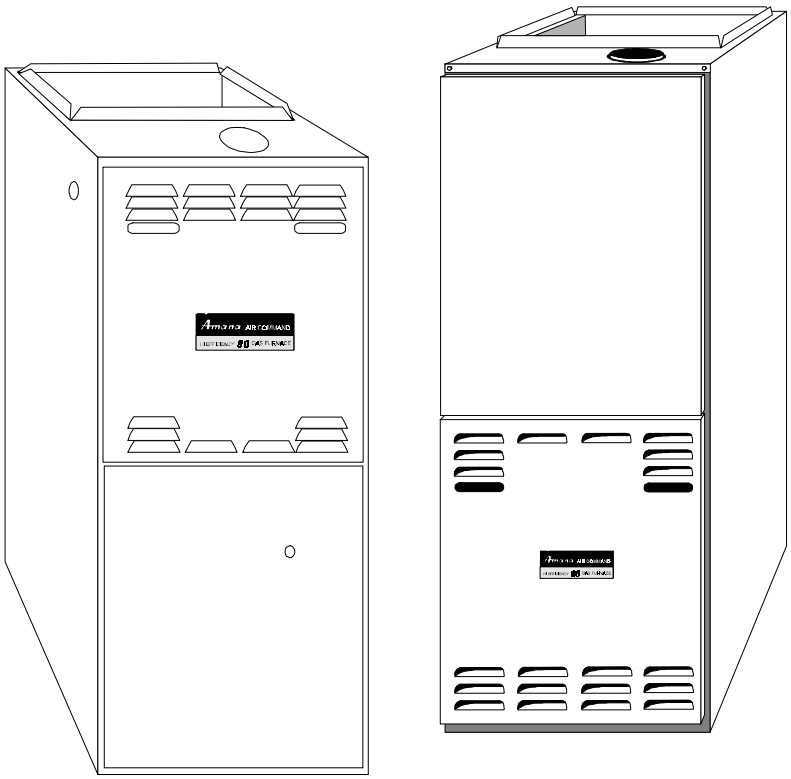
Technical Information

40" 80% Gas Furnaces
GUIB, GCIB

- Refer to Service Manual RS6600001 Rev. 1 for installation, operation, and troubleshooting information.
- All safety information must be followed as provided in the Service Manual.
- Refer to the appropriate Parts Catalog for part number information.

Model and Manufacturing numbers listed in this manual.

MODEL	M/N
GUIB045A30	P1186401F
GUIB070A30	P1186402F
GUIB070A40	P1186403F
GUIB090A30	P1186404F
GUIB090A50	P1186405F
GUIB115A40	P1186406F
GUIB115A50	P1186407F
GUIB140A50	P1186408F
GUIB045B30	P1206801F
GUIB070B30	P1206802F
GUIB070B40	P1206803F
GUIB090B30	P1206804F
GUIB090B50	P1206805F
GUIB115B50	P1206807F
GUIB045CX30	P1207701F
GUIB070CX30	P1207702F
GUIB070CX40	P1207703F
GUIB090CX30	P1207704F
GUIB090CX50	P1207705F
GUIB115CX50	P1207707F
GCIB045A30	P1186501F
GCIB070A30	P1186502F
GCIB070A40	P1186503F
GCIB090A30	P1186504F
GCIB090A50	P1186505F
GCIB115A40	P1186506F
GCIB115A50	P1186507F
GCIB140A50	P1186508F



This manual replaces RT6621002 Rev. 0 April 2000.

REV. 1 - Corrections made to manual, no new models added.

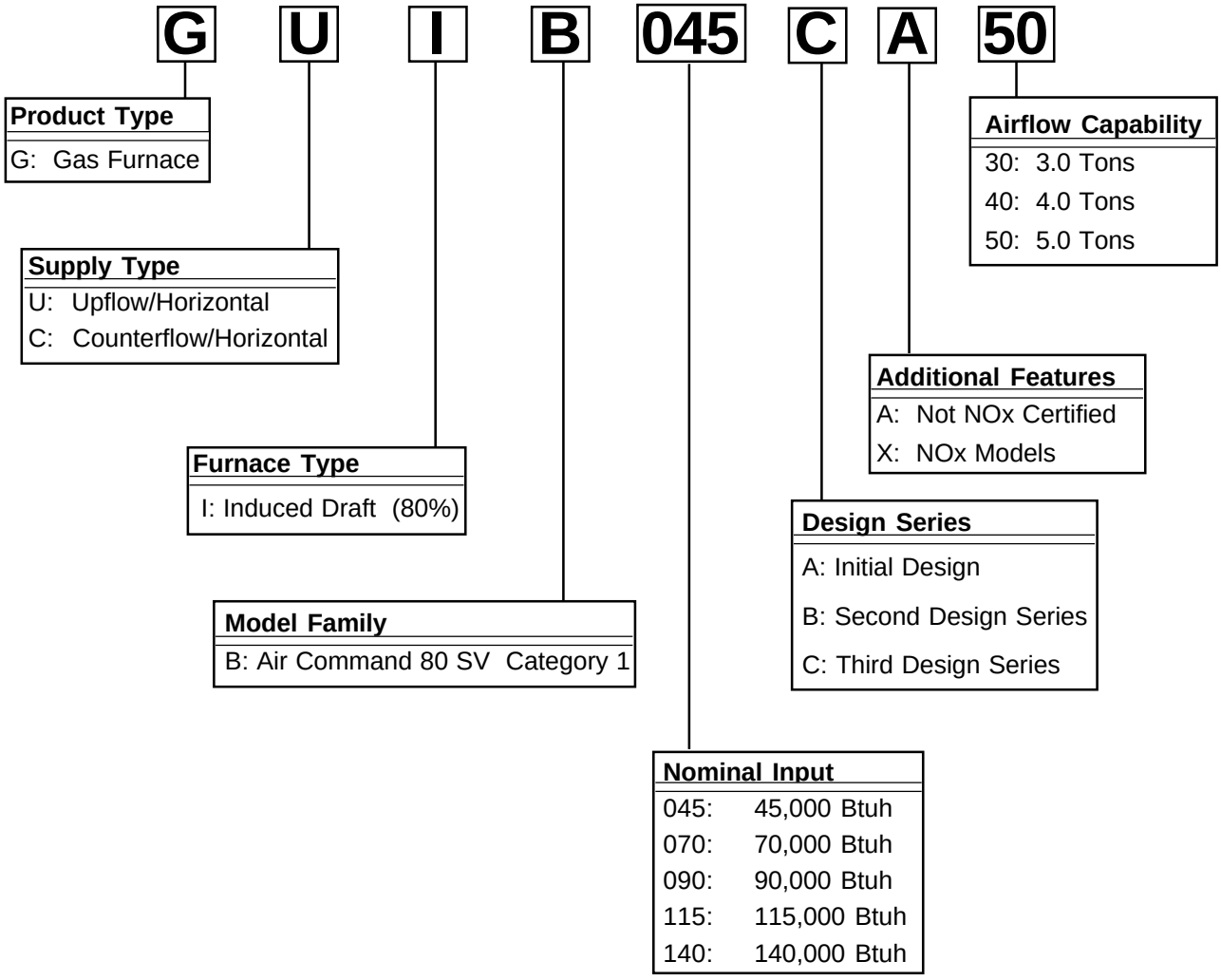
Heating & Air Conditioning
Amana®
Built Better Than It Has To Be

RT6621002
Revision 1
September 2000

PRODUCT IDENTIFICATION

The model and manufacturing number are used for positive identification of component parts used in manufacturing. When engineering and manufacturing changes take place where interchangeability of components are affected, the manufacturing number will change.

It is very important to use the model and manufacturing numbers at all times when requesting service or parts information.

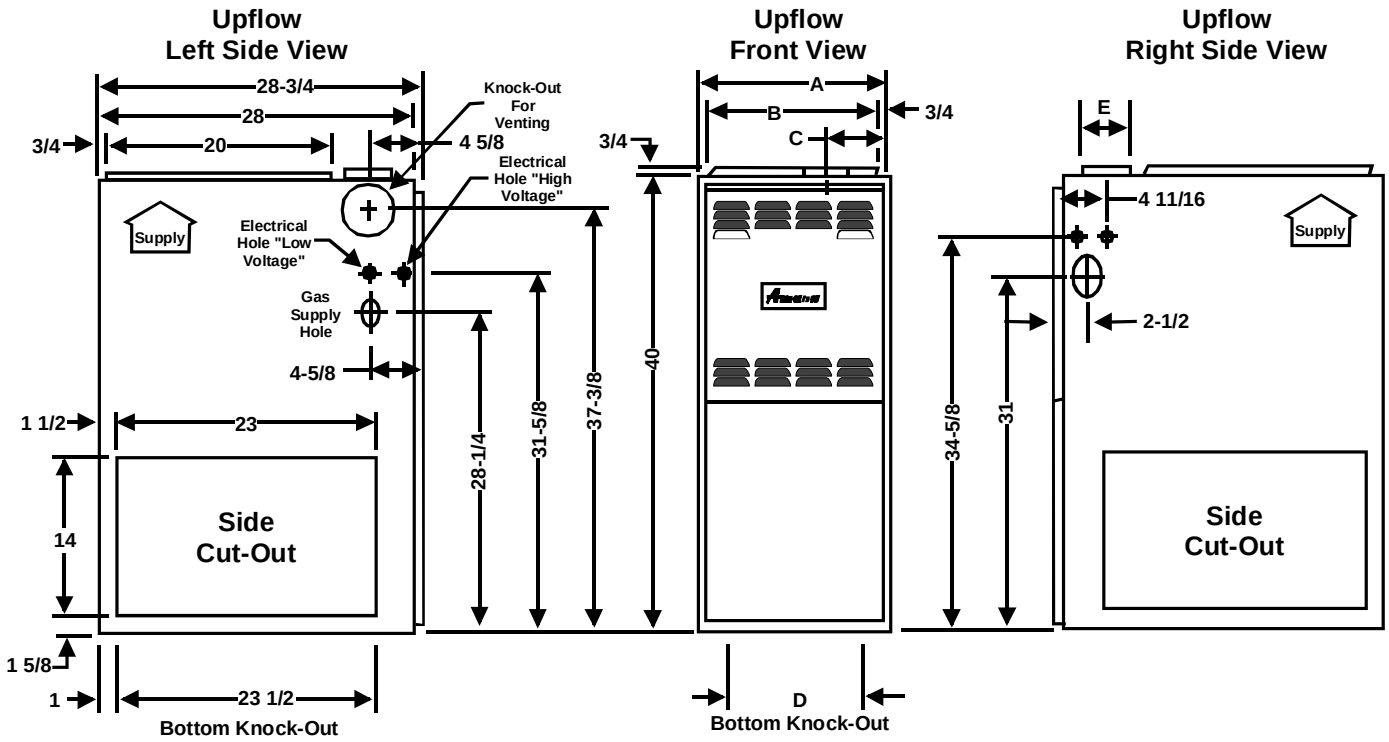


WARNING **IF REPAIRS ARE ATTEMPTED BY UNQUALIFIED PERSONS, DANGEROUS CONDITIONS (SUCH AS EXPOSURE TO ELECTRICAL SHOCK) MAY RESULT. THIS MAY CAUSE SERIOUS INJURY OR DEATH.**

CAUTION **AMANA WILL NOT BE RESPONSIBLE FOR ANY INJURY OR PROPERTY DAMAGE ARISING FROM IMPROPER SERVICE OR SERVICE PROCEDURES. IF YOU PERFORM SERVICE ON YOUR OWN PRODUCT, YOU ASSUME RESPONSIBILITY FOR ANY PERSONAL INJURY OR PROPERTY DAMAGE WHICH MAY RESULT.**

PRODUCT DIMENSIONS

GUIB 80% Upflow/Horizontal

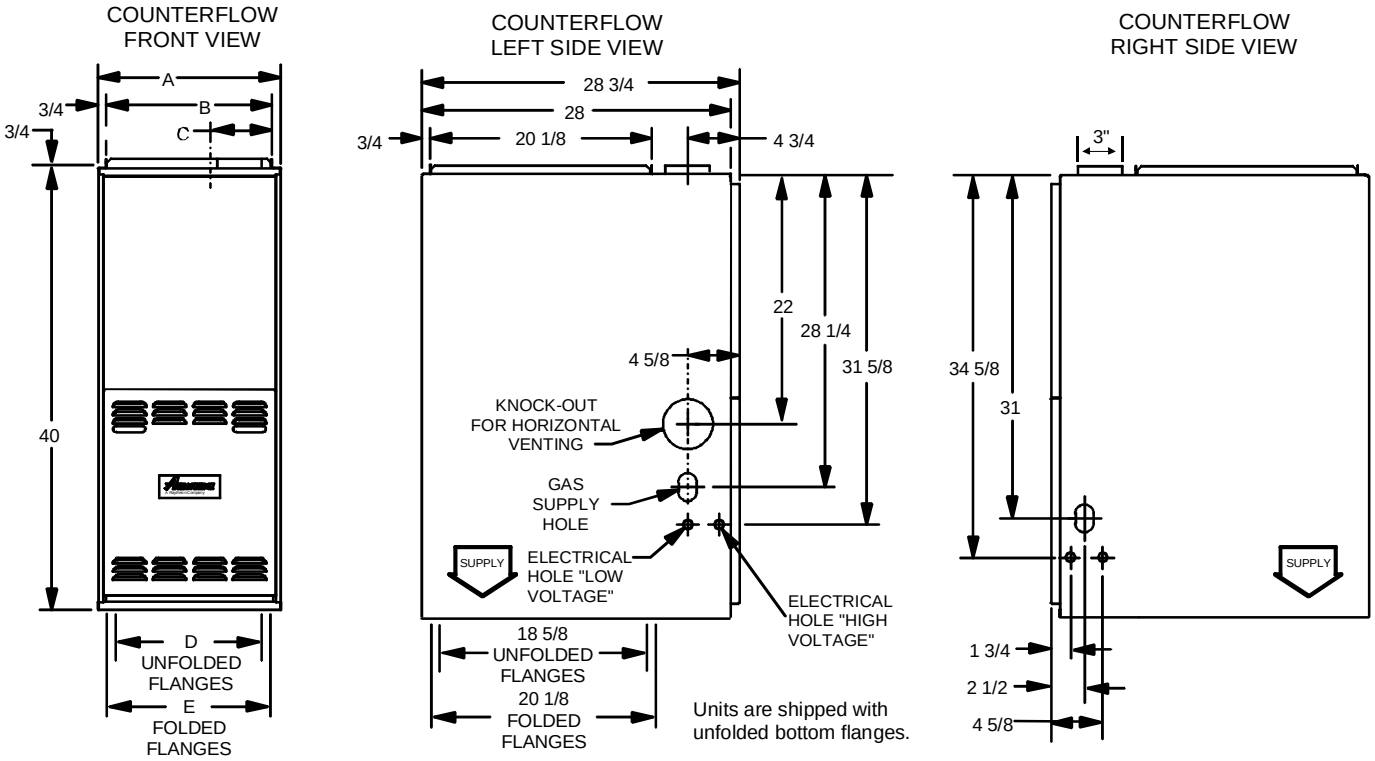


GUIB DIMENSIONS						
FURNACE MODEL	A	B	C	D	E	Minimum Vent Diameter
GUIB045 GUIB070	16-1/2	15	5-1/4	12-5/8	4	4
GUIB090	20-1/2	19	7-1/4	14-5/8	4	4
GUIB115 GUIB140	24-1/2	23	9-1/4	18-5/8	4	5

All dimensions are in inches.

PRODUCT DIMENSIONS

GCIB 80% Counterflow/Horizontal



GCIB DIMENSIONS						
FURNACE MODEL	**A**	**B**	**C**	**D Unfolded**	**E Folded**	**Minimum Vent Diameter**
GCIB045 GCIB070	16-1/2	15	5/3/8	13-1/2	15	4
GCIB090	20-1/2	19	7-3/8	17-1/2	19	4
GCIB115 GCIB140	24-1/2	23	9-3/8	21-1/2	23	5

All dimensions are in inches.

PRODUCT DESIGN

General Operation

This GUIB/GCIB furnace is equipped with an electronic ignition device to light the burners and an induced draft blower to exhaust combustion products.

An interlock switch prevents furnace operation if the blower door is not in place. Keep the blower access doors in place except for inspection and maintenance.

This furnace is also equipped with an electronic control module. In the event a furnace component is not operating properly, the control will prevent further furnace operation. (**Note:** This control does not have a diagnostic LED). Refer to the *Abnormal Operation - Integrated Ignition Control* section in the Service Instructions for an explanation of the possible problem.

The rated heating capacity of the furnace should be greater than or equal to the total heat loss of the area to be heated. The total heat loss should be calculated by an approved method or in accordance with “ASHRAE Guide” or “Manual J-Load Calculations” published by the Air Conditioning Contractors of America.

*Obtain from: American National Standards Institute 1430 Broadway New York, NY 10018

Location Considerations

- The furnace should be as centralized as is practical with respect to the air distribution system.
- Do not install the furnace directly on carpeting, tile, or combustible material other than wood flooring.
- When suspending the furnace from rafters or joists, use 3/8" threaded rod and 2” x 2” x 3/8” angle as shown in the Installation and Service Instructions. The length of the rod will depend on the application and clearance necessary.
- When installed in a residential garage, the furnace must be positioned so the burners and ignition source are located not less than 18 inches (457 mm) above the floor and protected from physical damage by vehicles.

Accessibility Clearances (Minimum)

MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS (INCHES)				
	UPFLOW	COUNTERFLOW	HORIZONTAL LEFT	HORIZONTAL RIGHT
FRONT	6[1]	6[1]	Alcove	Alcove
RIGHT	0	0	6	12
LEFT	0	0	12	6
REAR	0	0	0	0
TOP	1	1	6	6
FLUE	6[2]	6[2]	6[2]	6[2]
FLOOR	C	NC	C	C

[1] = 3 inch when using Type B-1 vent is used.

[2] = 1 inch when Type B-1 vent is used.

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

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

Counterflow installations on a combustible floor only when installed on special base ASB01.

36" at front is required for servicing or cleaning.

Note: In all cases accessibility clearance shall take precedence over clearances from the enclosure where accessibility clearances are greater. All dimensions are given in inches.

High Altitude Derate

When this furnace is installed at high altitude, the appropriate High Altitude orifice kit must be installed. This is required due to the natural reduction in the density of both the gas fuel and combustion air as altitude increases. The kit will provide the proper design certified input rate within the specified altitude range.

PROPANE AND HIGH ALTITUDE KITS			
MODEL NUMBER	0 to 7,500 ft.	7,501 to 11,000 ft.	7,501 to 11,000 ft.
GUIB GCIB	LPTK09 Propane Conversion Kit (#55 Orifices)	HANG07 High Altitude Natural Gas Kit (#45 Orifices)	HALP09 High Altitude Propane Gas Kit (#56 Orifices)

High altitude kits are purchased according to the installation altitude and usage of either natural or propane gas. Refer to the chart above for a tabular listing of appropriate altitude ranges and corresponding manufacturer’s high altitude Natural Gas and Propane Gas kits. For a tabular listing of appropriate altitude ranges and corresponding manufacturer's High Altitude Pressure Switch kits, refer to either the *Pressure Switch Trip Points & Usage Chart* in this manual or the *Accessory Charts* in Service Instructions.

PRODUCT DESIGN

PRESSURE SWITCH TRIP POINTS AND USAGE CHART											
MODEL	MINIMUM NEGATIVE PRESSURE WITH FLUE NOT FIRING TYPICAL SEA LEVEL DATA	MINIMUM NEGATIVE PRESSURE WITH FLUE FIRING TYPICAL SEA LEVEL DATA	PRESSURE SWITCH TRIP POINTS AND USAGE								
			0 to 7500 ft.			7501 to 9500 ft.			9501 to 11000 ft.		
			TRIP POINT	PRESSURE SWITCH (Prod.)	LABEL COLOR	TRIP POINT	HIGH ALTITUDE KIT	LABEL COLOR	TRIP POINT	HIGH ALTITUDE KIT	LABEL COLOR
GUIB045A/B**	-2.30	-1.64	-1.54	10727902	GREEN	-1.42	HAC1PS01 10727903	ORANGE	-1.42	HAC1PS01 10727903	ORANGE
GUIB070A/B**	-2.30	-1.52	-1.42	10727903	ORANGE	-1.30	HAC1PS02 10727904	PURPLE	-1.30	HAC1PS02 10727904	PURPLE
GUIB090A/B**	-2.10	-1.40	-1.30	10727904	PURPLE	-1.20	HAC1PS03 10727906	GRAY	-1.20	HAC1PS03 10727906	GRAY
GUIB115A/B**	-1.90	-1.17	-1.10	10727905	YELLOW	-1.05	HAC1PS06 10727908	WHITE	-1.00	HAC1PS07 10727910	WHITE
GUIB140A**	-1.80	-1.25	-1.20	10727906	GRAY	-1.14	HAC1PS04 10727909	PURPLE	-1.10	HAC1PS05 10727905	YELLOW
GUIB045CX**	-2.40	-1.90	-1.80	10727914	GREEN	-1.66	HAC1PS13 10727918	GREEN	-1.66	HAC1PS13 10727918	GREEN
GUIB070CX**	-2.30	-1.52	-1.42	10727903	ORANGE	-1.30	HAC1PS02 10727904	PURPLE	-1.30	HAC1PS02 10727904	PURPLE
GUIB090CX**	-2.10	-1.40	-1.30	10727904	PURPLE	-1.20	HAC1PS03 10727906	GRAY	-1.20	HAC1PS03 10727906	GRAY
GUIB115CX**	-1.90	-1.17	-1.10	10727905	YELLOW	-1.05	HAC1PS06 10727908	WHITE	-1.00	HAC1PS07 10727910	WHITE
GCIB045A**	-2.00	-1.40	-1.30	10727904	PURPLE	-1.20	HAC1PS03 10727906	GRAY	-1.20	HAC1PS03 10727906	GRAY
GCIB070A**	-2.00	-1.20	-1.10	10727905	YELLOW	-1.00	HAC1PS07 10727910	WHITE	-1.00	HAC1PS07 10727910	WHITE
GCIB090A**	-1.70	-1.15	-1.05	10727908	WHITE	-0.95	HAC1PS08 10727907	RED	-0.95	HAC1PS08 10727907	RED
GCIB115A**	-1.70	-1.02	-0.95	10727907	RED	-0.89	HAC1PS09 10727911	RED	-0.85	HAC1PS10 10727912	LT BLUE
GCIB140A**	-1.70	-1.15	-1.10	10727905	YELLOW	-1.05	HAC1PS06 10727908	WHITE	-1.00	HAC1PS07 10727910	WHITE

Note: Replacement pressure switch number is listed below High Altitude Pressure Switch Kit number.
Note: All negative pressure readings are in inches of water column (" w.c.).

PRODUCT DESIGN

T.O.D. PRIMARY LIMIT												
Part Number	10728301	10728305	10728306	10728307	10728312	10728313	10728315	10728316	10728317	10728318	10728319	10728320
Open Setting (°F)	210	180	200	190	160	130	250	200	160	240	170	140
Style	1	1	2	1	2	2	1	1	1	2	2	2
Sleeve Colors	Red	Blue	Black	Yellow	Red	Green	Brown	Black	Red	Tan	Blue	Orange
GUIB045**30							1					
GUIB070**30								1				
GUIB070**40	1											
GUIB090**30		1										
GUIB090**50				1								
GUIB115**40									1			
GUIB115**50		1										
GUIB140**50									1			
GCIB045**30										1		
GCIB070**30			1									
GCIB070**40											1	
GCIB090**30											1	
GCIB090**50					1							
GCIB115**40						1						
GCIB115**50						1						
GCIB140**50												1

ROLLOUT LIMIT SWITCHES						
Part Number	10123508	10123509	10123510	10123511	10123512	10123513
Open Setting (°F)	260	275	300	250	325	350
Color	BROWN	PINK	LT GREEN	LT BLUE	LT PURPLE	GRAY
GUIB045**30	1					
GUIB070**30/40			1			
GUIB090**30/50			1			
GUIB115**40/50						1
GUIB140**50		1				
GCIB045**30				1		
GCIB070**30/40		1				
GCIB090**30/50					1	
GCIB115**40/50		1				
GCIB140**50		1				

AUXILIARY LIMIT SWITCHES	
Part Number	10123506
Open Setting (°F)	160
Color	Orange
GUIB045**30	1
GUIB070**30/40	1
GUIB090**30/50	1
GUIB115**40/50	1
GUIB140**50	1
GCIB045**30	1
GCIB070**30/40	1
GCIB090**30/50	1
GCIB115**40/50	1
GCIB140**50	1

PRODUCT DESIGN

Coil Matches:

A large array of Amana coils are available for use with the GUIB and GCIB furnaces, in either upflow, counterflow, or horizontal applications. These coils are available in both cased and uncased models, with or without a TXV expansion device. These 80% furnaces match up with the existing Amana coils as shown in the chart below.

Btuh Input	Cabinet Width	Air Flow (tons)	CAA_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. 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	16 1/2"	2 - 3 1/2						
90,000	20 1/2"	2 1/2 - 4	CCA30FDC CCA36FDC CCA42FDC CCA48FCC	CCA48FSC	CHA42TCC	CHA42TSC	CCF24FDC CCF36FDC CCF42FCC CCF48FCC	CHF36TCC CHF42TCC
115,000	24 1/2"	3 - 5	CCA36FKC CCA48FDC CCA54FCC CCA57FCC CCA60FCC	CCA54FSC CCA57FSC CCA60FSC	CHA48TCC CHA54TCC CHA57TCC CHA60TCC	CHA48TSC CHA54TSC CHA57TSC CHA60TSC	CCF48FDC CCF60FCC	CHF48TCC
140,000	24 1/2"	3 - 5						

Thermostats:

The following Amana Thermostats are suggested for use

Thermostats								
Thermostat	Man/Auto	Programmable	Cool	Heat	Batt. Powered	Batt. Bkup*	Shape	Color
1213401	Man. Changeover	Yes	1	1	Yes	No	Rectangular	White
1213402	Man. Changeover	No	1	1	Yes	No	Rectangular	White
1213408	Man. or Auto Changeover	Yes	1	1	No	Yes	Rectangular	White

FURNACE SPECIFICATIONS

MODEL	GUIB045A30 GUIB045B30 GUIB045CX30	GUIB070A30 GUIB070B30 GUIB070CX30	GUIB070A40 GUIB070B40 GUIB070CX40	GUIB090A30 GUIB090B30 GUIB090CX30	GUIB090A50 GUIB090B50 GUIB090CX50	GUIB115A40	GUIB115A50 GUIB115B50 GUIB115CX50	GUIB140A50
Btuh Input (US)	46,000	69,000	69,000	92,000	92,000	115,000	115,000	140,000
Output (US)	36,800	55,200	55,200	73,600	73,600	92,000	92,000	110,400
A.F.U.E.	80%	80%	80%	80%	80%	80%	80%	80%
Rated External Static (" w.c.)	.10 - .50	.12 - .50	.12 - .50	.15 - .50	.15 - .50	.20 - .50	.20 - .50	.20 - .50
Temperature Rise (°F)	35 - 65	35 - 65	35 - 65	40 - 70	40 - 70	40 - 70	35 - 65	45 - 75
Pressure Switch Trip Point (" w.c.)	-1.80	-1.42	-1.42	-1.30	-1.30	-1.10	-1.10	-1.20
Blower Wheel (D" x W")	9 x 8	9 x 8	10 x 6	10 x 8	10 x 8	10 x 7	10 x 9	10 x 9
Blower Horsepower	1/3	1/3	1/2	1/2	1/2	1/2	3/4	3/4
Blower Speeds	4	4	4	4	4	4	4	4
Max CFM @ 0.5 E.S.P.	1200	1290	1450	1380	1975	1590	1985	2050
Power Supply	115-60-1	115-60-1	115-60-1	115-60-1	115-60-1	115-60-1	115-60-1	115-60-1
Minimum Circuit Ampacity (MCA)	9.5	10.1	11.5	8.6	15.3	13.5	13.8	14.8
Maximum Overcurrent Device	15	15	15	15	20	15	15	15
Transformer (VA)	40	40	40	40	40	40	40	40
Heat Anticipator	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Primary Limit Setting (°F)	250	200	210	180	190	160	180	160
Auxiliary Limit Setting (°F)	160	160	160	160	160	160	160	160
Rollout Limit Setting (°F)	260	300	300	300	300	350	350	275
Fan Delay On	30 secs.	30 secs.	30 secs.	30 secs.	30 secs.	30 secs.	30 secs.	30 secs.
Off Heating *	90 secs.	90 secs.	90 secs.	90 secs.	90 secs.	90 secs.	90 secs.	90 secs.
Off Cooling	45 secs.	45 secs.	45 secs.	45 secs.	45 secs.	45 secs.	45 secs.	45 secs.
Gas Supply Pressure (Natural/Propane) ("w.c.)	7 / 11	7 / 11	7 / 11	7 / 11	7 / 11	7 / 11	7 / 11	7 / 11
Manifold Pressure (Natural/Propane) ("w.c.)	3.5 / 10	3.5 / 10	3.5 / 10	3.5 / 10	3.5 / 10	3.5 / 10	3.5 / 10	3.5 / 10
Orifice Size (Natural/Propane)	#43 / #55	#43 / #55	#43 / #55	#43 / #55	#43 / #55	#43 / #55	#43 / #55	#43 / #55
Number of Burners	2	3	3	4	4	5	5	6
Vent Connector Diameter (inches)	4	4	4	4	4	4	4	4
Shipping Weight (lbs.)	140	151	152	169	178	190	194	198

* Off Heating - This fan delay timing is adjustable (60, 90, 120 or 180 seconds), 90 seconds as shipped.

1. These furnaces are manufactured for natural gas operation. Optional kits are available for conversion to propane operation.
2. For elevations above 2000 feet the rating should be reduced by 4% for each 1000 feet above sea level. The furnace must not be derated, orifice changes should only be made if necessary for altitude.
3. The total heat loss from the structure as expressed in TOTAL BTU/HR must be calculated by the manufacturers method or in accordance with the "A.S.H.R.A.E. GUIDE" or "MANUAL J-LOAD CALCULATIONS" published by the AIR CONDITIONING CONTRACTORS OF AMERICA. The total heat loss calculated should be equal to or less than the heating capacity. Output based on D.O.E. test procedures, steady state efficiency times output.
4. Minimum Circuit Ampacity calculated as: (1.25 x Circulator Blower Amps) + I.D. Blower Amps.

FURNACE SPECIFICATIONS

MODEL	GCIB045A30	GCIB070A30	GCIB070A40	GCIB090A30	GCIB090A50	GCIB115A40	GCIB115A50	GCIB140A50
Btuh Input (US)	46,000	69,000	69,000	92,000	92,000	115,000	115,000	138,000
Output (US)	37,000	55,000	55,000	74,000	74,000	92,000	92,000	110,000
A.F.U.E.	80%	80%	80%	80%	80%	80%	80%	80%
Rated External Static (" w.c.)	.10 - .50	.12 - .50	.12 - .50	.15 - .50	.15 - .50	.20 - .50	.20 - .50	.20 - .50
Temperature Rise (°F)	35 - 65	45 - 75	45 - 75	45 - 75	45 - 75	45 - 75	45 - 75	45 - 75
Pressure Switch Trip Point (" w.c.)	-1.30	-1.10	-1.10	-1.05	-1.05	-0.95	-0.95	-1.10
Blower Wheel (D" x W")	9 x 8	9 x 8	10 x 6	10 X 8	10 x 8	10 x 7	10 x 9	10 x 9
Blower Horsepower	1/3	1/3	1/2	1/3	1/2	1/2	3/4	3/4
Blower Speeds	4	4	4	4	4	4	4	4
Max CFM @ 0.5 E.S.P.	1160	1145	1366	1265	1780	1660	1840	1845
Power Supply	115-60-1	115-60-1	115-60-1	115-60-1	115-60-1	115-60-1	115-60-1	115-60-1
Minimum Circuit Ampacity (MCA)	10.1	9.3	10.7	8.3	14.7	13.1	14.5	14.5
Maximum Overcurrent Device	15	15	15	15	20	15	20	20
Transformer (VA)	40	40	40	40	40	40	40	40
Heat Anticipator	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Primary Limit Setting (°F)	240	200	170	170	160	130	130	140
Auxiliary Limit Setting (°F)	160	160	160	160	160	160	160	160
Rollout Limit Setting (°F)	250	275	275	325	325	275	275	275
Fan Delay On	30 secs.	30 secs.	30 secs.	30 secs.	30 secs.	30 secs.	30 secs.	30 secs.
Off Heating *	90 secs.	90 secs.	90 secs.	90 secs.	90 secs.	90 secs.	90 secs.	90 secs.
Off Cooling	45 secs.	45 secs.	45 secs.	45 secs.	45 secs.	45 secs.	45 secs.	45 secs.
Gas Supply Pressure (Natural/Propane) ("w.c.)	7 / 11	7 / 11	7 / 11	7 / 11	7 / 11	7 / 11	7 / 11	7 / 11
Manifold Pressure (Natural/Propane) ("w.c.)	3.5 / 10	3.5 / 10	3.5 / 10	3.5 / 10	3.5 / 10	3.5 / 10	3.5 / 10	3.5 / 10
Orifice Size (Natural/Propane)	#43 / #55	#43 / #55	#43 / #55	#43 / #55	#43 / #55	#43 / #55	#43 / #55	#43 / #55
Number of Burners	2	3	3	4	4	5	5	6
Vent Connector Diameter (inches)	3	3	3	3	3	3	3	3
Shipping Weight (lbs.)	135	145	145	160	160	175	175	185

* Off Heating - This fan delay timing is adjustable (60, 90, 120 or 180 seconds), 90 seconds as shipped.

1. These furnaces are manufactured for natural gas operation. Optional kits are available for conversion to propane operation.
2. For elevations above 2000 feet the rating should be reduced by 4% for each 1000 feet above sea level. The furnace must not be derated, orifice changes should only be made if necessary for altitude.
3. The total heat loss from the structure as expressed in TOTAL BTU/HR must be calculated by the manufacturers method or in accordance with the "A.S.H.R.A.E. GUIDE" or "MANUAL J-LOAD CALCULATIONS" published by the AIR CONDITIONING CONTRACTORS OF AMERICA. The total heat loss calculated should be equal to or less than the heating capacity. Output based on D.O.E. test procedures, steady state efficiency times output.
4. Minimum Circuit Ampacity calculated as: (1.25 x Circulator Blower Amps) + I.D. Blower Amps.

BLOWER PERFORMANCE SPECIFICATIONS

GUIB Blower Performance (CFM & Temperature Rise vs. External Static Pressure)														
Model (Heating Speed As Shipped)	MOTOR SPEED	TONS AC @ 0.5" ESP	External Static Pressure (Inches Water Column)											
			0.1		0.2		0.3		0.4		0.5		0.6	
			CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise
GUIB045**30 (Low)	HIGH	3.0	1460	---	1400	---	1345	---	1280	---	1200	---	1110	---
	MED	2.5	1200	---	1150	---	1100	---	1050	---	980	35	900	38
	MED-LO	2.0	935	36	910	37	885	39	845	40	790	43	710	48
	LOW	1.5	700	49	685	50	665	51	635	54	575	59	425	---
GUIB070**30 (Med-Lo)	HIGH	3.0	1555	---	1505	---	1440	35	1365	37	1290	39	1180	43
	MED	3.0	1325	38	1305	39	1250	41	1200	42	1140	44	1060	48
	MED-LO	2.5	1090	47	1080	47	1055	48	1020	50	970	52	905	56
	LOW	2.0	760	---	750	---	750	---	735	---	700	---	645	---
GUIB070**40 (Low)	HIGH	3.5	1695	---	1625	---	1580	---	1520	---	1450	35	1365	37
	MED	3.0	1485	---	1450	35	1400	36	1350	38	1295	39	1235	41
	MED-LO	3.0	1235	41	1200	42	1180	43	1140	44	1115	45	1050	48
	LOW	2.5	1095	46	1070	47	1050	48	1025	49	975	52	950	53
GUIB090**30 (High)	HIGH	3.5	1630	42	1560	44	1550	44	1465	47	1380	49	1275	53
	MED	3.0	1360	50	1325	51	1290	53	1215	56	1155	59	1070	64
	MED-LO	2.0	920	---	920	---	900	---	890	---	850	---	800	---
	LOW	1.5	770	---	750	---	740	---	730	---	690	---	660	---
GUIB090**50 (Med-Lo)	HIGH	5.0	2250	---	2185	---	2120	---	2030	---	1975	---	1885	---
	MED	4.0	1775	---	1750	---	1735	---	1690	40	1650	41	1600	43
	MED-LO	3.5	1320	52	1315	52	1315	52	1315	52	1280	53	1240	55
	LOW	3.0	1180	58	1180	58	1175	58	1170	58	1140	60	1120	61
GUIB115**40 (High)	HIGH	4.0	1835	46	1780	48	1730	49	1660	51	1590	53	1530	55
	MED	3.5	1630	52	1595	53	1540	55	1490	57	1440	59	1375	62
	MED-LO	3.0	1320	64	1305	65	1290	66	1260	67	1200	---	1180	---
	LOW	2.5	1140	---	1145	---	1120	---	1100	---	1065	---	1030	---
GUIB115**50 (Med)	HIGH	5.0	2330	36	2245	38	2165	39	2065	41	1985	43	1885	45
	MED	5.0	2120	40	2070	41	2020	42	1940	44	1850	46	1775	48
	MED-LO	4.0	1875	45	1840	46	1800	47	1735	49	1685	50	1600	53
	LOW	3.0	1290	---	1275	---	1250	---	1235	---	1210	---	1170	---
GUIB140**50 (High)	HIGH	5.0	2455	---	2390	---	2290	---	2200	46	2050	49	1935	52
	MED	5.0	2050	49	2025	50	1965	52	1890	54	1810	56	1715	59
	MED-LO	4.0	1715	59	1700	60	1660	61	1615	63	1555	65	1470	69
	LOW	3.5	1450	70	1435	71	1415	72	1380	73	1340	---	1280	---

1. CFM in chart is without filters(s). Filters do not ship with this furnace, but must be provided by the installer. If the furnace requires two return filters, this chart assumes both filters are installed.
2. All furnaces ship as high speed cooling. Installer must adjust blower cooling speed as needed.
3. For most jobs, about 400 CFM per ton when cooling is desirable.
4. INSTALLATION IS TO BE ADJUSTED TO OBTAIN TEMPERATURE RISE WITHIN THE RANGE SPECIFIED ON THE RATING PLATE.
5. The chart is for information only. For satisfactory operation, external static pressure must not exceed value shown on rating plate. The shaded area indicates ranges in excess of maximum external static pressure allowed when heating.
6 The dashed (---) areas indicate a temperature rise not recommended for this model.
7. The above chart is for U.S. furnaces installed at 0-2000 feet. At higher altitudes, a properly derated unit will have approximately the same temperature rise at a particular CFM, while the ESP at that CFM will be lower.

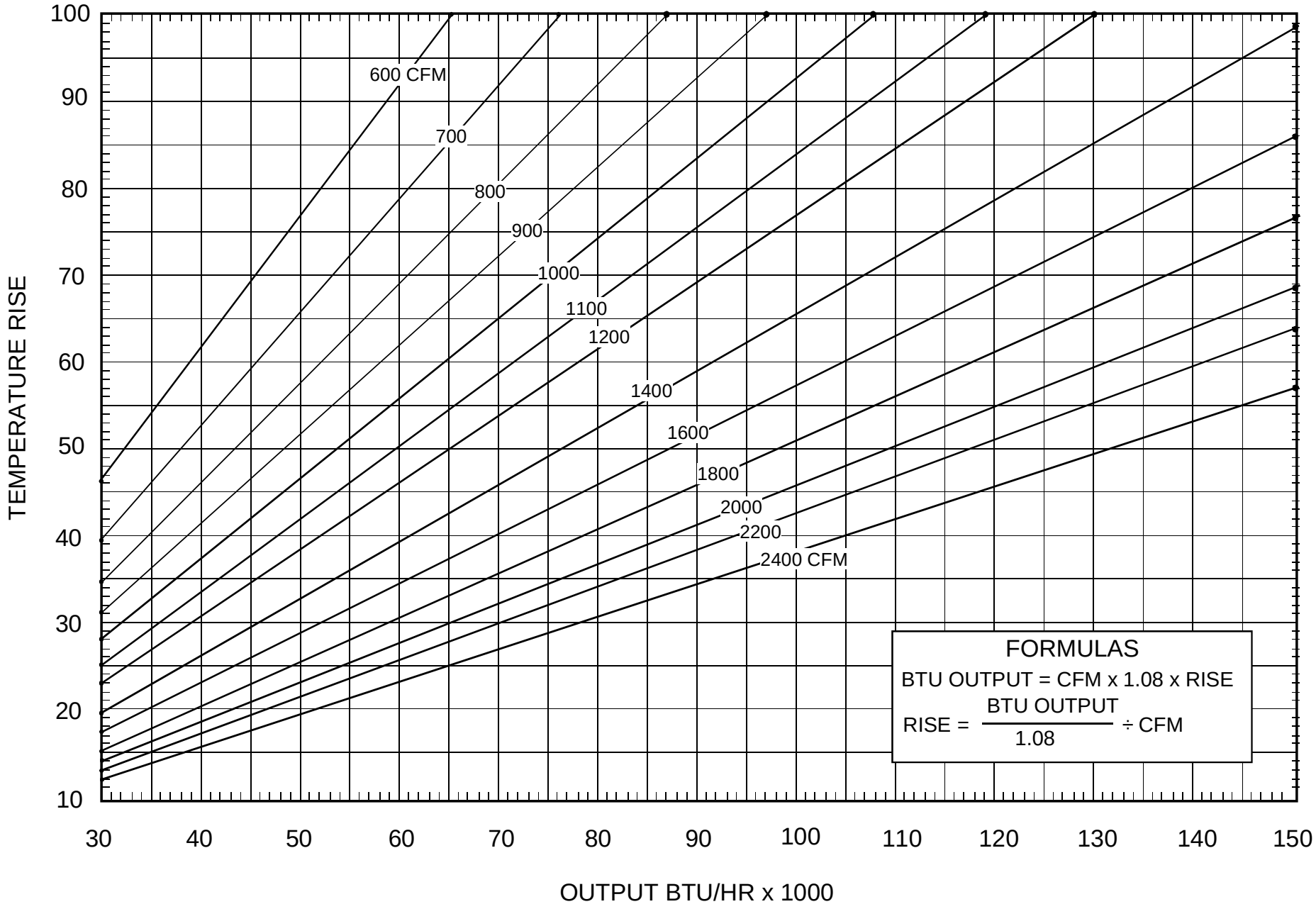
BLOWER PERFORMANCE SPECIFICATIONS

GCIB Blower Performance (CFM & Temperature Rise vs. External Static Pressure)														
Model (Heating Speed As Shipped)	MOTOR SPEED	TONS AC @ 0.5" ESP	External Static Pressure (Inches Water Column)											
			0.1		0.2		0.3		0.4		0.5		0.6	
			CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise
GCIB045**30 (Low)	HIGH	3.0	1455	-	1430	-	1360	-	1255	-	1160	-	1040	-
	MED	2.5	1255	-	1200	-	1150	-	1075	-	990	-	890	38
	MED-LO	2.0	1010	-	980	35	940	36	880	39	810	42	700	49
	LOW	1.5	775	44	745	46	710	48	655	52	560	61	435	-
GCIB070**30 (Med-Lo)	HIGH	3.0	1455	-	1420	-	1365	-	1275	-	1145	-	1015	50
	MED	3.0	1110	46	1090	47	1050	48	1015	50	935	54	845	60
	MED-LO	2.5	910	56	905	56	895	57	860	59	810	63	745	68
	LOW	2.0	730	69	715	71	710	71	680	75	645	-	490	-
GCIB070**40 (Low)	HIGH	3.5	1655	-	1580	-	1500	-	1445	-	1366	-	1280	-
	MED	3.0	1530	-	1470	-	1400	-	1345	-	1280	-	1210	-
	MED-LO	3.0	1090	47	1075	47	1055	48	1015	50	975	52	915	55
	LOW	2.5	945	54	935	54	915	55	890	57	850	60	810	63
GCIB090**30 (High)	HIGH	3.5	1620	-	1550	-	1470	46	1385	49	1265	54	1165	59
	MED	3.0	1415	48	1355	50	1285	53	1215	56	1120	61	1015	67
	MED-LO	2.0	1025	67	1010	68	990	69	945	72	890	-	815	-
	LOW	1.5	850	-	840	-	810	-	790	-	750	-	675	-
GCIB090**50 (Med-Lo)	HIGH	5.0	2110	-	2030	-	1960	-	1870	-	1780	-	1680	-
	MED	4.0	1830	-	1765	-	1710	-	1640	-	1550	-	1470	46
	MED-LO	3.5	1260	54	1255	54	1230	55	1200	57	1170	58	1115	61
	LOW	3.0	1015	67	1000	68	980	70	964	71	930	73	875	-
GCIB115**40 (High)	HIGH	4.0	1960	-	1890	45	1825	46	1745	49	1660	51	1580	54
	MED	3.5	1725	49	1685	50	1640	52	1585	53	1515	56	1440	59
	MED-LO	3.0	1440	59	1425	60	1405	60	1380	61	1335	64	1275	67
	LOW	2.5	1035	-	1025	-	1015	-	1005	-	975	-	955	-
GCIB115**50 (Med)	HIGH	5.0	2100	-	2060	-	2000	-	1915	-	1840	46	1750	48
	MED	5.0	1915	-	1890	45	1840	46	1775	48	1710	50	1635	52
	MED-LO	4.0	1535	55	1516	56	1485	57	1455	58	1410	60	1355	63
	LOW	3.0	1175	72	115	73	1140	74	1120	-	1090	-	1060	-
GCIB140**50 (High)	HIGH	5.0	2255	45	2170	47	2065	49	1970	51	1845	55	1735	58
	MED	5.0	2170	47	2045	50	1945	52	1855	55	1750	58	1650	61
	MED-LO	4.0	1845	55	1790	57	1720	59	1620	63	1525	66	1445	70
	LOW	3.5	1425	71	1390	73	1370	74	1320	-	1265	-	1185	-

1. CFM in chart is without filters(s). Filters do not ship with this furnace, but must be provided by the installer. If the furnace requires two return filters, this chart assumes both filters are installed.
2. All furnaces ship as high speed cooling. Installer must adjust blower cooling speed as needed.
3. For most jobs, about 400 CFM per ton when cooling is desirable.
4. INSTALLATION IS TO BE ADJUSTED TO OBTAIN TEMPERATURE RISE WITHIN THE RANGE SPECIFIED ON THE RATING PLATE.
5. The chart is for information only. For satisfactory operation, external static pressure must not exceed value shown on rating plate. The shaded area indicates ranges in excess of maximum external static pressure allowed when heating.
6 The dashed (---) areas indicate a temperature rise not recommended for this model.
7. The above chart is for U.S. furnaces installed at 0-2000 feet. At higher altitudes, a properly derated unit will have approximately the same temperature rise at a particular CFM, while the ESP at that CFM will be lower.

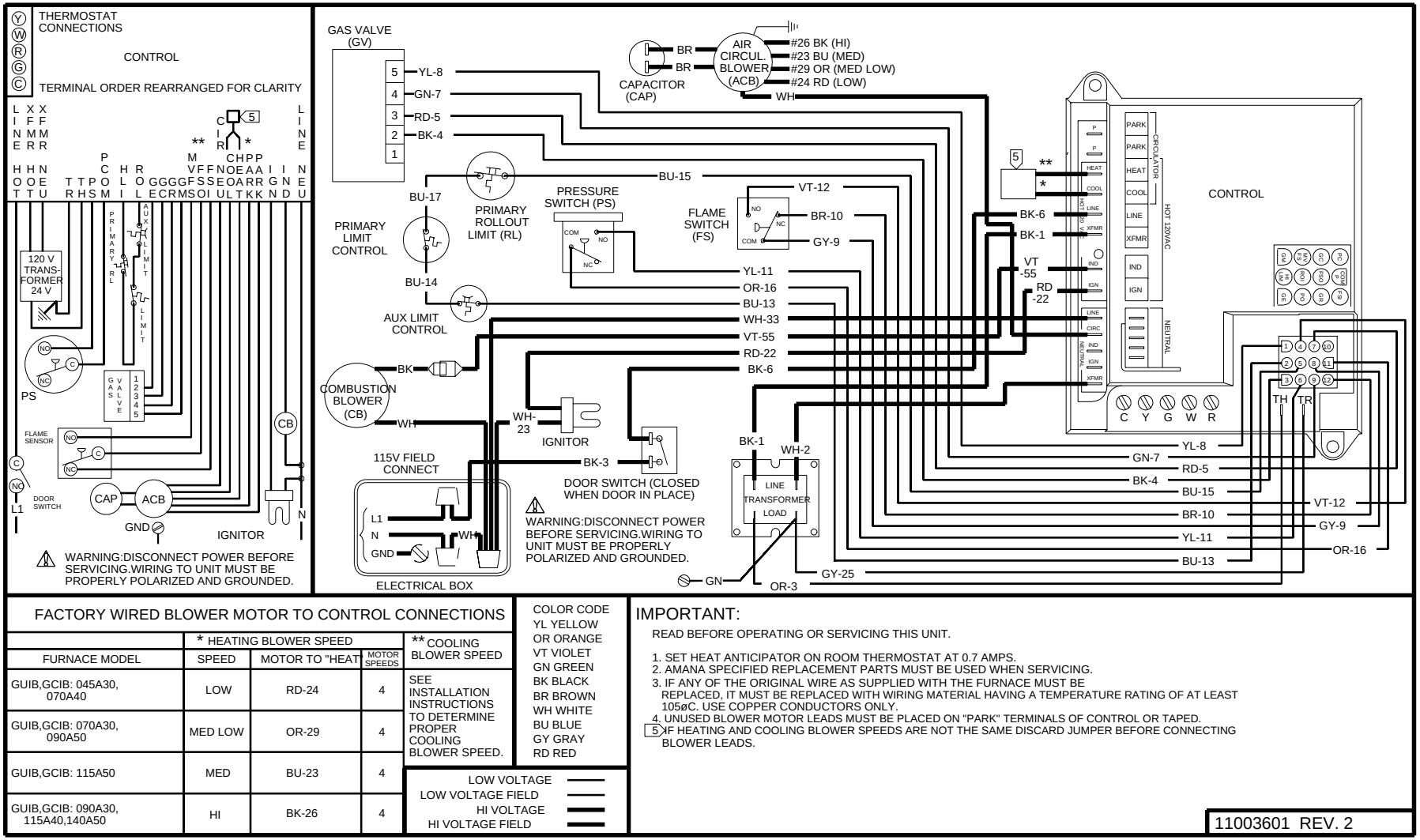
BLOWER PERFORMANCE SPECIFICATIONS

BTU OUTPUT vs TEMPERATURE RISE CHART



WIRING DIAGRAMS

GUIB and GCIB (See model numbers above)



FACTORY WIRED BLOWER MOTOR TO CONTROL CONNECTIONS

FURNACE MODEL	* HEATING BLOWER SPEED: SPEED	MOTOR TO "HEAT"	MOTOR SPEEDS	** COOLING BLOWER SPEED
GUIB,GCIB: 045A30, 070A40	LOW	RD-24	4	SEE INSTALLATION INSTRUCTIONS TO DETERMINE PROPER COOLING BLOWER SPEED.
GUIB,GCIB: 070A30, 090A50	MED LOW	OR-29	4	
GUIB,GCIB: 115A50	MED	BU-23	4	
GUIB,GCIB: 090A30, 115A40,140A50	HI	BK-26	4	

LOW VOLTAGE
LOW VOLTAGE FIELD
HI VOLTAGE
HI VOLTAGE FIELD

COLOR CODE
YL YELLOW
OR ORANGE
VT VIOLET
GN GREEN
BK BLACK
BR BROWN
WH WHITE
BU BLUE
GY GRAY
RD RED

IMPORTANT:

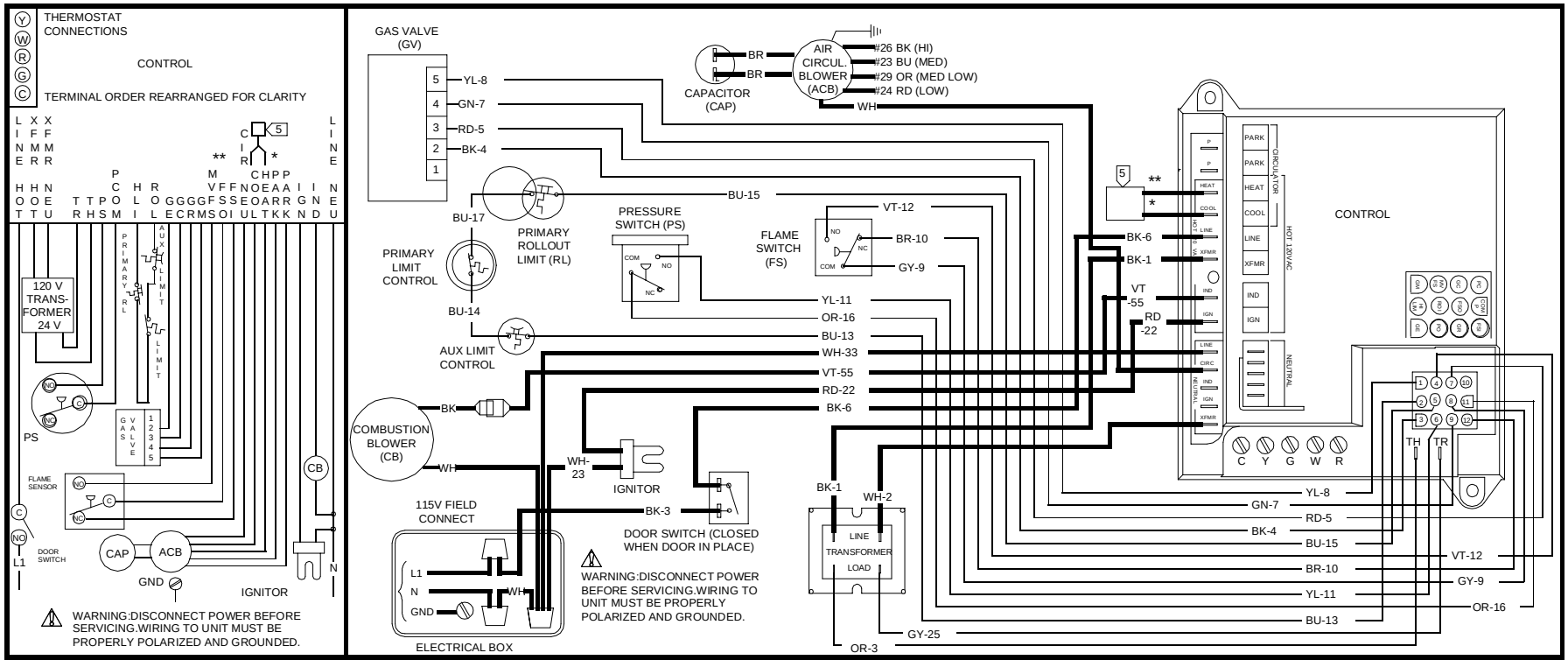
READ BEFORE OPERATING OR SERVICING THIS UNIT.

1. SET HEAT ANTICIPATOR ON ROOM THERMOSTAT AT 0.7 AMPS.
2. AMANA SPECIFIED REPLACEMENT PARTS MUST BE USED WHEN SERVICING.
3. IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE FURNACE MUST BE REPLACED, IT MUST BE REPLACED WITH WIRING MATERIAL HAVING A TEMPERATURE RATING OF AT LEAST 105øC. USE COPPER CONDUCTORS ONLY.
4. UNUSED BLOWER MOTOR LEADS MUST BE PLACED ON "PARK" TERMINALS OF CONTROL OR TAPED.
5. IF HEATING AND COOLING BLOWER SPEEDS ARE NOT THE SAME DISCARD JUMPER BEFORE CONNECTING BLOWER LEADS.

11003601 REV. 2

WARNING **TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.**

GUIB and GCIB (See model numbers above)



FACTORY WIRED BLOWER MOTOR TO CONTROL CONNECTIONS

FURNACE MODEL	* HEATING BLOWER SPEED			** COOLING BLOWER SPEED
* MANUFACTURER'S VARIABLE LETTER	SPEED	MOTOR TO "HEAT"	MOTOR SPEEDS	
GUIB045*30,070*40	LOW	RD-24	4	SEE INSTALLATION INSTRUCTIONS TO DETERMINE PROPER COOLING BLOWER SPEED.
GUIB070*30,090*50	MED LOW	OR-29	4	
GUIB115*50	MED	BU-23	4	
GUIB090*30,115*40 GUIB140*50	HI	BK-26	4	

LOW VOLTAGE
LOW VOLTAGE FIELD
HI VOLTAGE
HI VOLTAGE FIELD

COLOR CODE
YL YELLOW
OR ORANGE
VT VIOLET
GN GREEN
BK BLACK
BR BROWN
WH WHITE
BU BLUE
GY GRAY
RD RED

IMPORTANT:

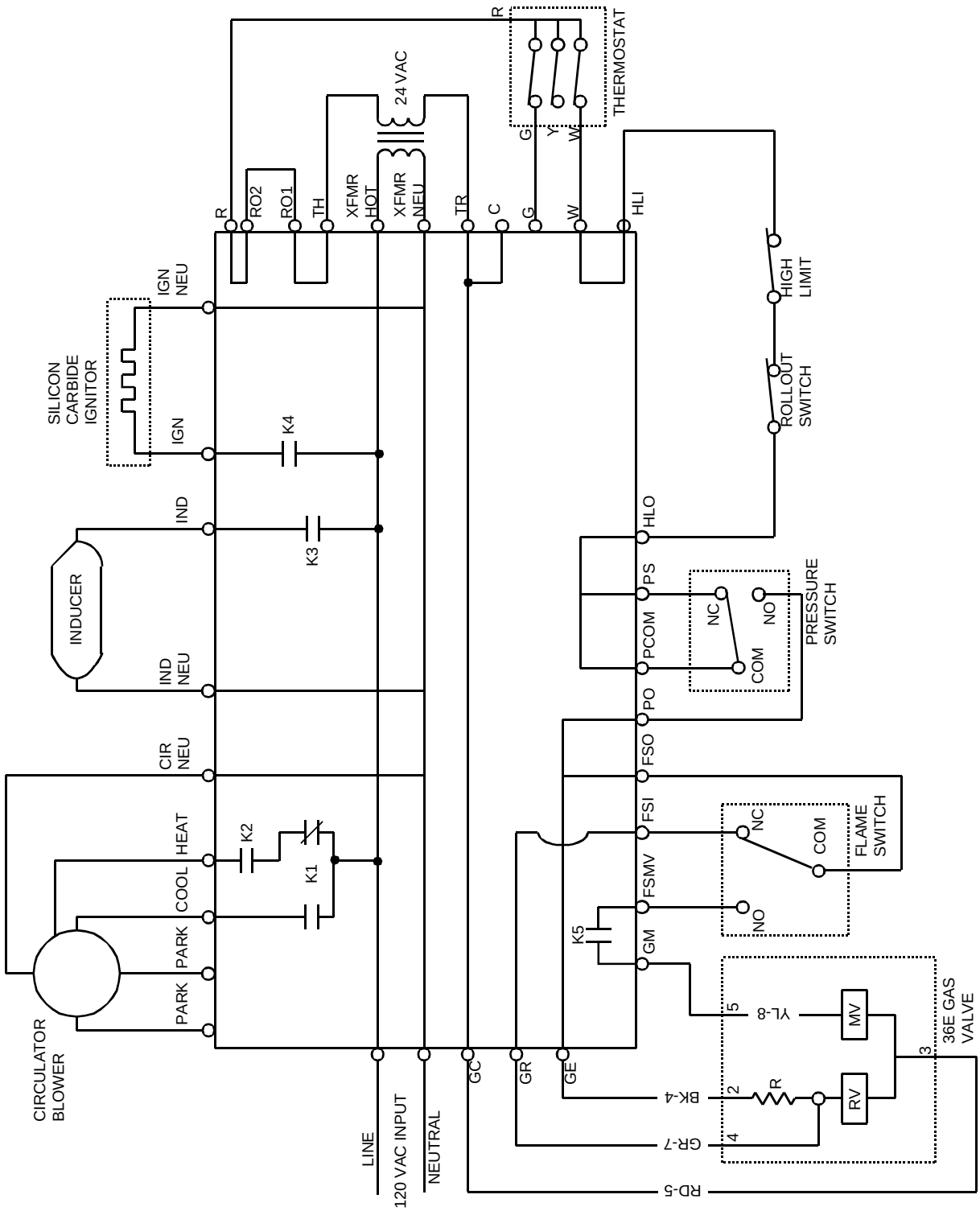
READ BEFORE OPERATING OR SERVICING THIS UNIT.

1. SET HEAT ANTICIPATOR ON ROOM THERMOSTAT AT 0.7 AMPS.
2. MANUFACTURER'S SPECIFIED REPLACEMENT PARTS MUST BE USED WHEN SERVICING.
3. IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE FURNACE MUST BE REPLACED, IT MUST BE REPLACED WITH WIRING MATERIAL HAVING A TEMPERATURE RATING OF AT LEAST 105°C. USE COPPER CONDUCTORS ONLY.
4. UNUSED BLOWER MOTOR LEADS MUST BE PLACED ON "PARK" TERMINALS OF CONTROL OR TAPED.
5. IF HEATING AND COOLING BLOWER SPEEDS ARE NOT THE SAME DISCARD JUMPER BEFORE CONNECTING BLOWER LEADS.

11073501 REV. 1

WARNING **TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.**

SCHEMATICS



GUIB and GCIB

WR50A52 RADIANT SENSE IGNITION CONTROL

This schematic is for reference only. Not all wiring is as shown above, refer to the appropriate wiring diagram for the unit being serviced.

WARNING

TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.