



ENGINEERING DATA

13GCSX
ELITE® SERIES
Residential - R-410A

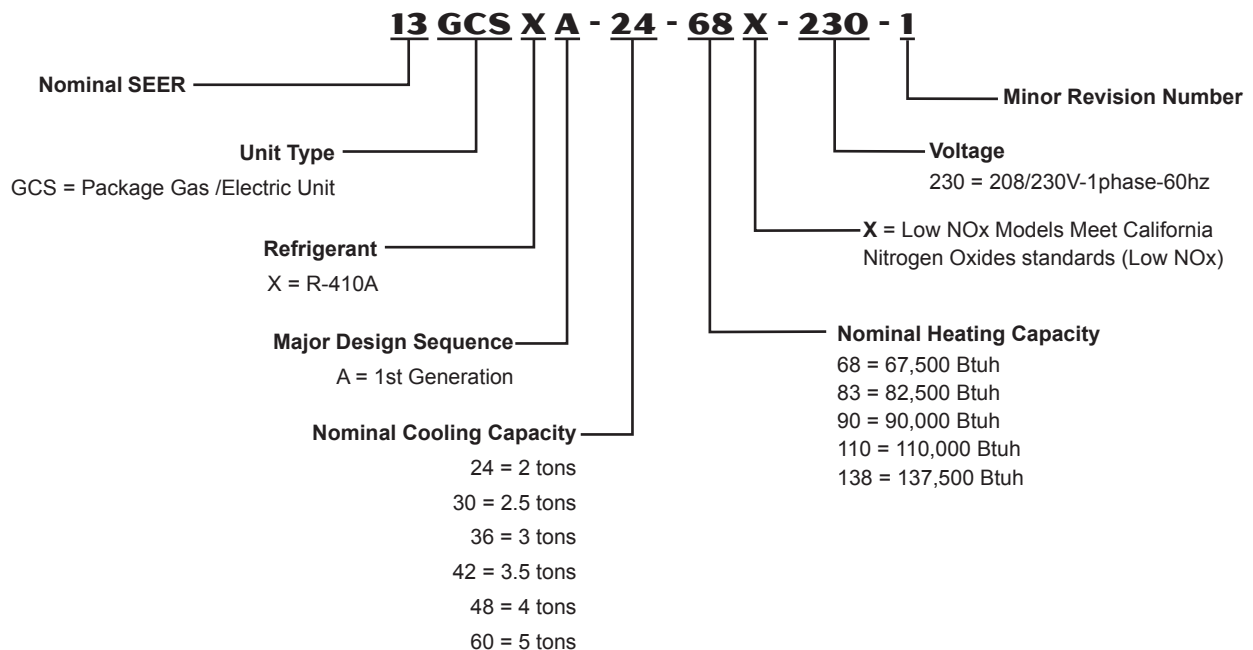
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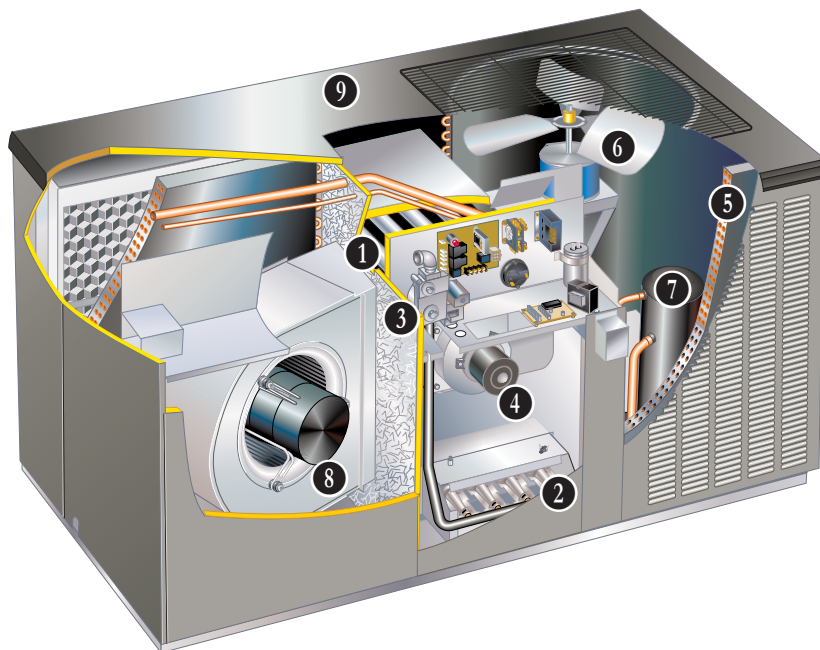


SEER - 13.00
AFUE - 80%
2 to 5 Tons

Cooling Capacity - 22,000 to 57,500 Btuh
Input Gas Heating Capacity - 67,500 to 137,500 Btuh

MODEL NUMBER IDENTIFICATION





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EQUIPMENT WARRANTY

Heat Exchanger - twenty year limited warranty in residential applications and ten years in non-residential applications.

Compressor - ten year limited warranty in residential installations and five year in non-residential installations.

All other covered components - five years in residential installations and one year in non-residential installations.

Refer to Lennox Equipment Limited Warranty certificate included with unit for specific details.

APPLICATIONS

Designed for outdoor installations at ground level or rooftop for residential applications.

APPROVALS

Units are design certified by UL.

Heating ratings are according to Department of Energy (DOE) test procedures and Federal Trade Commission (FTC) labeling regulations and are Certified by AHRI.

Low NOx "X" models meet California Nitrogen Oxides (NOx) standards.

Cooling system rated according to DOE test procedures.

Cooling system rated in accordance with AHRI standard 210/240.

Units are listed by UL for the U.S. and Canada.

Packaged unit and components within bonded for grounding to meet safety standards required by UL.

Each unit test operated at the factory before shipment ensuring dependable operation at start-up.

HEATING SYSTEM

1 Heat Exchanger

Aluminized tubular steel for superior resistance to corrosion and oxidation.

Round surfaces create minimum air resistance and allow air to surround all surfaces for excellent heat transfer.

Compact design reduces space requirements in unit cabinet.

Heat exchanger has been laboratory life cycle tested.

2 Inshot Burners

Aluminized steel inshot burners provide efficient trouble free operation.

Burner venturi mixes air and gas in correct proportion for proper combustion.

Burner assembly is removable from the unit as a single component for ease of service and each burner may be removed individually.

FEATURES

HEATING SYSTEM (CONTINUED)

3 Gas Control Valve

24 volt redundant combination gas control valve combines manual shut off valve (On-Off), automatic electric valve (dual) and gas pressure regulation into a compact combination control.

4 Combustion Air Inducer

Heavy duty combustion air inducer prepurges heat exchanger and safely vents flue products.

Blower is controlled by the ignition control board.

Pressure switch proves blower operation before allowing gas valve to open.

Combustion air inducer operates during heating cycle.

Inducer also operates for the first 10 seconds of every cooling cycle to prevent insects from nesting in the flue outlet during cooling season.

Limit Controls

Automatic reset, primary and secondary limits are accurately located.

Primary limit factory installed on heating vestibule panel on all units, secondary limit (-42, -48 and -60 models only) factory installed on blower housing.

Flame Rollout Switch

Manual reset switch is factory installed on burner box.

Switch provides protection from abnormal operating conditions.

Ignition Control Board

Ignition control board with LED diagnostics.

OPTIONS

LPG/Propane Conversion Kit

Required for field changeover from natural gas to LPG/Propane.

REFRIGERATION SYSTEM

R-410A Refrigerant

Non-chlorine, ozone friendly, R-410A.

Unit pre-charged with refrigerant.

See Specification table.



5 Evaporator and Condenser Coils

Copper tube with aluminum fin coils.

Evaporator Coil Drain Pan

Corrosion resistant plastic drain pan.

6 Condenser Fan

Weather protected heavy duty condenser fan motor with coated steel fan blades for long life.

Internally mounted.

Totally enclosed motor.

Fan guard constructed of corrosion-resistant PVC (polyvinyl chloride) coated steel.

High Pressure Switch

Shuts off unit if abnormal operating conditions cause the discharge pressure to rise above setting.

Protects compressor from excessive condensing pressure. Automatic reset.

SCROLL COMPRESSOR

- 7** Compressor features high efficiency with uniform suction flow, constant discharge flow and high volumetric efficiency and quiet operation.

Compressor consists of two involute spiral scrolls matched together to generate a series of crescent shaped gas pockets between them.

During compression, one scroll remains stationary while the other scroll orbits around it.

Gas is drawn into the outer pocket, the pocket is sealed as the scroll rotates. As the spiral movement continues, gas pockets are pushed to the center of the scrolls. Volume between the pockets is simultaneously reduced.

When pocket reaches the center, gas is now at high pressure and is forced out of a port located in the center of the fixed scrolls.

During compression, several pockets are compressed simultaneously resulting in a smooth continuous compression cycle.

Continuous flank contact, maintained by centrifugal force, minimizes gas leakage and maximizes efficiency.

Scroll compressor is tolerant to the effects of slugging and contaminants. If this occurs, scrolls separate, allowing liquid or contaminants to be worked toward the center and discharged.

Low gas pulses during compression reduces operational sound levels.

Compressor motor is internally protected from excessive current and temperature.

Compressor is installed in the unit on resilient rubber mounts for vibration free operation.

Compressor cover reduces operating sound levels.

OPTIONS

Compressor Crankcase Heater

Protects against refrigerant migration that can occur during low ambient operation.

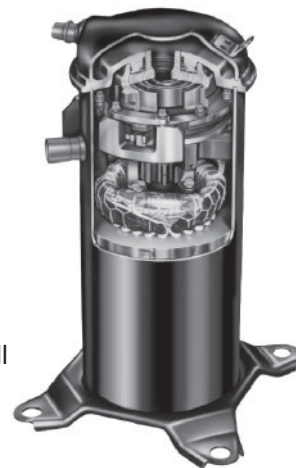
Compressor Hard Start Kit

Single-phase units are equipped with a PSC compressor motor. This type of motor normally doesn't need a potential relay and start capacitor.

In conditions such as low voltage, this kit may be required to increase the compressor starting torque.

Time-Off Control

Prevents compressor short-cycling and allows time for suction and discharge pressure to equalize. Permits compressor start-up in an unloaded condition. Automatic reset with 5 minute delay between compressor shut-off and start-up.



FEATURES

SUPPLY AIR BLOWER

8 Direct Drive Blower

Each blower assembly statically and dynamically balanced.

Blower assembly easily removed for servicing

Multi-speed, direct drive blower motor.

Change in blower speed is easily accomplished by simple wiring change on blower motor.

See Blower Performance tables

CONTROLS

24 Volt Transformer

40VA transformer furnished and factory installed in control area.

OPTIONS

Low Ambient Kit

Packaged unit will operate satisfactorily in the cooling mode down to 45°F outdoor air temperature without any additional controls.

Kit can be added in the field enabling unit to operate properly down to 30°F.

Thermostat

See Thermostat bulletins in Controls section and Lennox Price Book for a complete list of thermostats.

CABINET

9 Conditioned areas insulated with foil faced insulation to minimize heat loss and reduce operating sound levels.

Powder paint for maximum durability.

Easy service access.

Steel louvered panels provides complete coil protection.

Interchangeable panels for horizontal to down-flow airflow conversion furnished (shipped for horizontal).

Gas Piping Inlets, Electrical Inlets and Service Valves

Gas piping and field wiring inlets are located in one central area of the cabinet. See dimension drawing.

Gauge ports are located inside the cabinet.

OPTIONS

Lifting Brackets

Available to facilitate rigging of the unit.

Roof Curbs

Mates to unit.

Shipped knocked down.

Available in 8 in. and 14 in. heights.

AIR FILTER OPTIONS (REQUIRED)

Internal Filter Kits

Available for 1, 2, 4, or 5 in. thick filters. Kit contains filter rails for mounting filters internal to unit. Filters must be field provided. MERV 10 and MERV 16 filters are available separately or other 1, 2, 4 or 5 inch thick filters can be used.

MERV Filters for Internal Filter Kits

Disposable, pleated MERV 10 or MERV 16 filter (Minimum Efficiency Reporting Value based on ASHRAE 52.2).

Dust mites, pollen, mold spores, pet dander and other contaminants are captured by the filter.

Double-wall beverage board frame for rigid construction.

Recommended replacement of the media depends on a variety of factors, see Specifications table.

Media is certified to UL 900 standard and UL/ULC classification - Class 2.

SPECIFICATIONS

General Data		Model No.	13GCSXA -24	13GCSXA -30	13GCSXA -36	13GCSXA -42	13GCSXA -48	13GCSXA -60
Nominal Tonnage			2	2.5	3	3.5	4	5
Gas Heat Available - See Next Page			-68(X)	-68(X)	-68(X) or -90	-83(X) or -110	-83(X), -110 or -138	
Cooling Performance	Total cooling capacity - Btuh		22,000	28,600	34,800	41,500	47,500	57,500
	Total unit watts		2000	2600	3160	3770	4320	5230
	¹ SEER (Btuh/Watt)		13.00	13.00	13.00	13.00	13.00	13.00
	EER (Btuh/Watt)		11.00	11.00	11.00	11.00	11.00	11.00
	² Sound Rating Number (dB)		81	81	81	79	79	79
Refrigerant		Type	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
		Charge	4 lbs. 10 oz.	4 lbs. 12 oz.	4 lbs. 14 oz.	6 lbs. 2 oz.	6 lbs. 4 oz.	6 lbs. 6 oz.
Condensate drain size (fpt) - in.			3/4	3/4	3/4	3/4	3/4	3/4
Outdoor Coil Fan	Motor horsepower		1/5	1/5	1/5	1/4	1/4	1/4
	Diameter - in. & No. of blades		22 - 2	22 - 2	22 - 2	26 - 3	26 - 3	26 - 3
Indoor Blower	Blower wheel size dia. x width - in.		10 x 6	10 x 6	10 x 8	10 x 10	10 x 10	10 x 10
	Motor horsepower		1/4	1/4	1/2	1/2	3/4	3/4
Net weight of basic unit - lbs.			390	390	405	520	540	555
Shipping weight of basic unit (1 Pkg.) - lbs.			440	440	455	575	595	610
Electrical characteristics (60 hz)			208/230V-1ph-60hz					

ELECTRICAL DATA

Line voltage data - 60hz 1 phase		208/230V	208/230V	208/230V	208/230V	208/230V	208/230V
³ Maximum overcurrent protection (amps)		25	25	35	45	50	60
⁴ Minimum Circuit Ampacity		15.9	17	22.5	30.5	35.5	38.3
Compressor	Rated load amps	10.7	11.6	15.2	21.1	24.1	26.4
	Locked rotor amps	53	59	70	90	100	134
Outdoor Coil Fan Motor	Full load amps	1.1	1.1	1.1	1.7	1.7	1.7
	Locked rotor amps	2.2	2.2	2.2	4.0	4.0	4.0
Indoor Blower Motor	Full load amps	1.4	1.4	2.4	2.4	3.6	3.6
	Locked rotor amps	2.4	2.4	4.9	4.9	9.5	9.5

OPTIONAL ACCESSORIES - MUST BE ORDERED EXTRA

Compressor Crankcase Heater	93M04	•	•	•	•	•	•
Compressor Hard Start Kit	10J42	•	•	•	•	•	
	81J69						•
Compressor Timed-Off Control	47J27	•	•	•	•	•	•
⁵ Internal Filter Kit	(1 ea) 20 x 25 filter X8131	•	•	•			
	(2 ea) 16 x 25 filter X8132				•	•	•
Lifting Brackets	92M51	•	•	•	•	•	•
Low Ambient Kit	34M72	•	•	•	•	•	•
MERV Filters for Internal Filter Kit 5 in. thick	MERV 10 X6673	•	•	•			
	X6670				•	•	•
	MERV 16 X6675	•	•	•			
	X6672				•	•	•
Roof Curbs	8 in. Height 92M99	•	•	•			
	93M01				•	•	•
	14 in. Height 93M00	•	•	•			
	93M02				•	•	•

NOTE-Extremes of operating range are plus and minus 10% of line voltage.

¹ Rated in accordance with AHRI Standard 210/240; 95°F outdoor air temperature, 80°F db/67°F wb entering evaporator air.

² Sound Rating Number rated in accordance with test conditions included in AHRI Standard 270.

³ HACR type circuit breaker or fuse.

⁴ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

⁵ Filters are not furnished and must be field provided. MERV 10 and MERV 16 filters or other 1, 2, 4 or 5 inch thick filters can be used.

SPECIFICATIONS - GAS HEAT

Heat Option		-68(X)	-83(X)	-90	-110	-138
Heating Capacity Btuh	Input	67,500	82,500	90,000	110,000	137,500
	Output	54,000	66,000	72,000	88,000	110,000
¹ A.F.U.E.		80	80	80	80	80
Temperature Rise - °F		35 - 65	30 - 60	35 - 65	45 - 75	45 - 75
Gas Supply Connection (FPT) - in.		1/2	1/2	1/2	1/2	1/2
Min. Recommended Gas Supply Pressure		5 in. w.g. Natural Gas, 11 in. w.g. LPG/Propane				

OPTIONAL ACCESSORIES - MUST BE ORDERED EXTRA

LPG/Propane Conversion Kit	92M57	92M58	92M57	92M58	92M58
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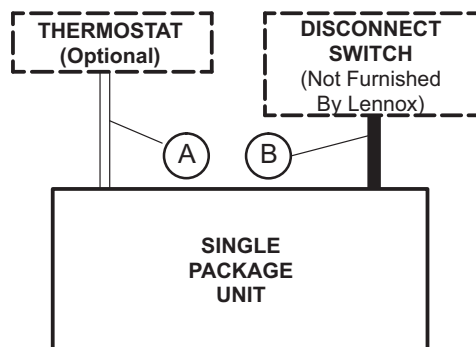
¹ Annual Fuel Utilization Efficiency based on U.S. DOE test procedures and FTC labeling regulations.

HIGH ALTITUDE DERATE

Units may be installed at altitudes up to 4500 feet above sea level without any modification. At altitudes above 4500 feet, units must be derated 4% for every 1000 feet above sea level. Example - At an altitude of 6000 feet the unit would require a derate of 24%.

NOTE - This is the only permissible derate for these units.

FIELD WIRING



- A – Four Wire Low Voltage (Electro-mechanical)
- Five Wire Low Voltage (Electronic)
- B – Two Wire Power (See Electrical Data Table)

– Field Wiring Not Furnished –

BLOWER DATA

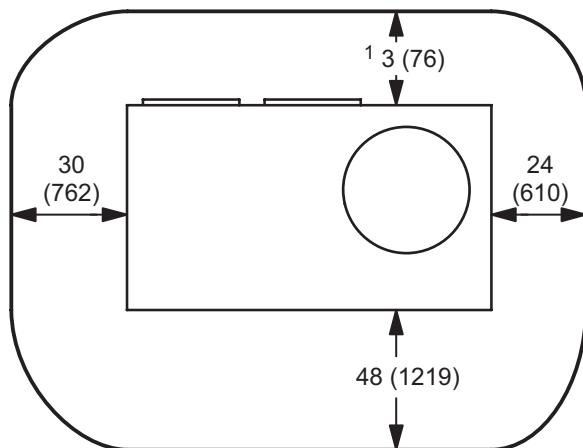
Blower Performance - ¹ Horizontal Air Flow

External Static Pressure - in. w.g.	Air Volume at Various Blower Speeds - cfm														
	13GCSX-24 13GCSX-30			13GCSX-36				13GCSX-42				13GCSX-48 13GCSX-60			
	High	Medium	Low	High	Medium-High	Medium-Low	Low	High	Medium-High	Medium-Low	Low	High	Medium-High	Medium-Low	Low
0.20	1160	1010	800	1560	1270	1230	1090	1550	1400	1300	1140	2200	1880	1660	1570
0.30	1100	950	750	1480	1240	1190	1060	1520	1370	1280	1120	2120	1830	1630	1550
0.40	1030	890	690	1400	1180	1140	1020	1490	1340	1250	1100	2010	1780	1590	1520
0.50	960	830	630	1290	1110	1070	980	1460	1300	1210	1080	1900	1690	1530	1480
0.60	890	760	570	1210	1030	1000	920	1410	1250	1170	1040	1800	1600	1470	1420
0.70	810	680	440	1100	950	930	840	1340	1190	1110	990	1690	1500	1390	1350
0.80	680	590	300	990	810	790	640	1240	1120	1050	830	1560	1390	1300	1250

NOTE - All air data is measured external to unit without air filters.

¹ For downflow air volume, add 0.05 in. w.g. to duct static.

INSTALLATION CLEARANCES - INCHES (MM)

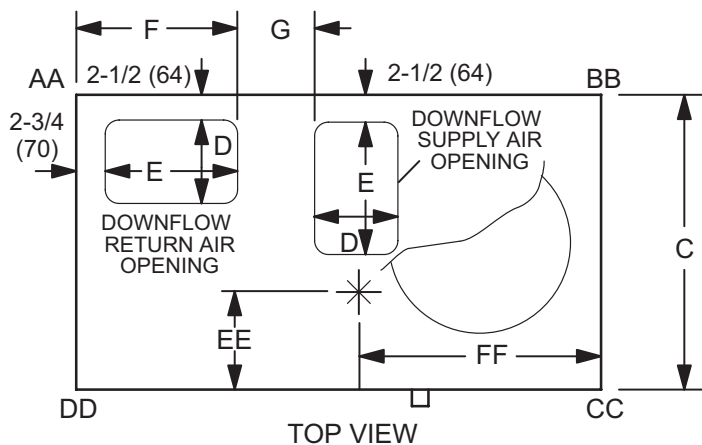


NOTE -Top Clearance - 36 in. (914 mm)

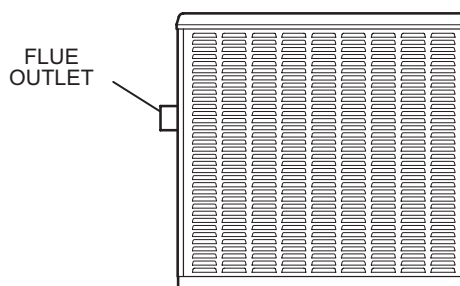
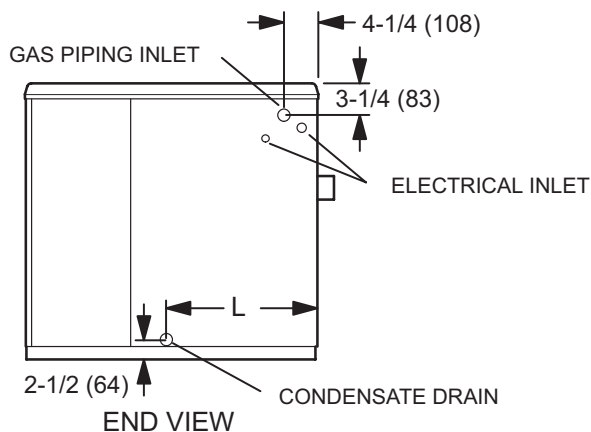
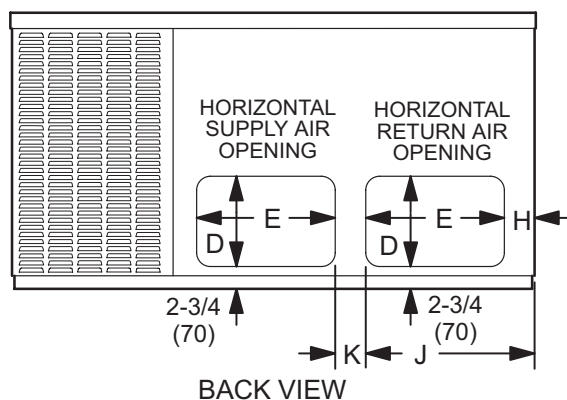
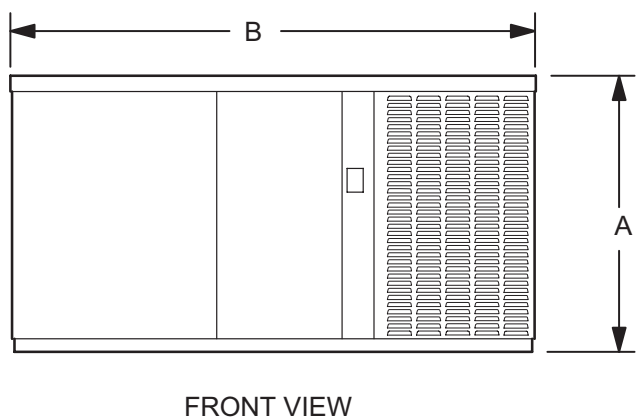
NOTE -Entire perimeter of unit base requires support when elevated above mounting surface.

¹ Maintain 18 in. (457 mm) service clearance for accessory maintenance if equipped.

DIMENSIONS - INCHES (MM)



Model	Corner Weights								Center of Gravity			
	AA		BB		CC		DD		EE		FF	
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	in.	mm	in.	mm
-24	74	34	94	43	125	57	97	44	15-1/2	394	28-1/2	724
-30												
-36	84	38	101	46	126	57	105	48	16	406	29-1/2	749
-42	108	49	136	62	176	80	140	64	20	508	33	838
-48	112	51	137	62	177	80	144	65	20	508	33-1/2	851
-60	117	53	143	65	184	83	151	68	20	508	33-1/2	851

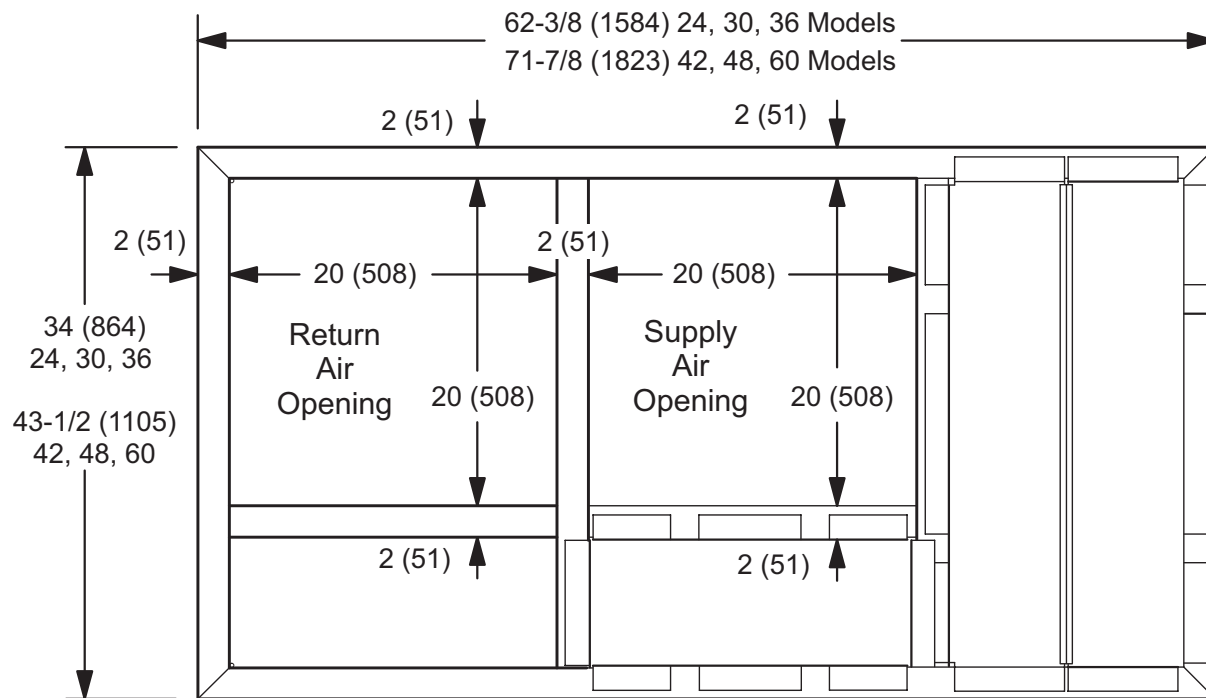


Model No.	A		B		C		D		E		F	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
13GCSX-24												
13GCSX-30	34-1/4	870	65-3/8	1661	36-1/2	927	11-1/4	286	17-1/4	438	20	508
13GCSX-36												
13GCSX-42												
13GCSX-48	38-1/4	972	75	1905	46	1168	11-1/4	286	19-1/4	489	22	559
13GCSX-60												

Model No.	G		H		J		K		L	
	in	mm	in	mm	in	mm	in	mm	in	mm
13GCSX-24										
13GCSX-30	8-1/2	216	3	76	20-1/4	514	4-1/2	114	19	483
13GCSX-36										
13GCSX-42										
13GCSX-48	9-1/4	241	3-1/4	83	22-1/4	572	4	102	16-1/4	413
13GCSX-60										

ACCESSORY DIMENSIONS - INCHES (MM)

ROOF CURBS



TOP VIEW



SIDE VIEW

COOLING RATINGS

NOTE - For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
	Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			
			75°F	80°F	85°F			75°F	80°F	85°F			75°F	80°F	85°F			75°F	80°F	85°F	
cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	
2 TON COOLING CAPACITY 13GCSX-24																					
63°F (17°C)	600	20.6	1.38	0.69	0.83	0.90	19.2	1.54	0.71	0.85	0.92	17.6	1.76	0.75	0.90	0.97	15.7	1.80	0.79	0.95	1.00
	800	21.2	1.42	0.75	0.90	0.98	19.8	1.58	0.77	0.92	1.00	18.1	1.81	0.82	0.98	1.00	16.2	1.85	0.86	1.00	1.00
	1000	21.5	1.48	0.83	0.99	1.00	20.1	1.64	0.85	1.00	1.00	18.4	1.88	0.90	1.00	1.00	16.4	1.92	0.95	1.00	1.00
67°F (19°C)	600	22.8	1.39	0.51	0.66	0.81	21.3	1.56	0.53	0.68	0.84	19.4	1.73	0.55	0.71	0.87	17.7	1.82	0.58	0.75	0.92
	800	23.5	1.43	0.56	0.72	0.88	22.0	1.60	0.58	0.74	0.91	20.0	1.77	0.60	0.77	0.95	18.2	1.87	0.63	0.81	1.00
	1000	23.9	1.49	0.62	0.79	0.97	22.3	1.66	0.63	0.81	1.00	20.3	1.84	0.66	0.85	1.00	18.5	1.94	0.69	0.89	1.00
71°F (22°C)	600	24.3	1.41	0.29	0.48	0.59	23.3	1.57	0.29	0.49	0.61	21.7	1.80	0.30	0.50	0.63	20.2	1.85	0.31	0.52	0.64
	800	25.1	1.45	0.31	0.52	0.65	24.0	1.61	0.32	0.53	0.66	22.4	1.85	0.33	0.54	0.68	20.8	1.90	0.34	0.56	0.70
	1000	25.5	1.51	0.29	0.48	0.59	24.4	1.67	0.29	0.49	0.61	22.7	1.92	0.30	0.50	0.63	21.1	1.98	0.31	0.52	0.64

2.5 TON COOLING CAPACITY 13GCSX-30

63°F (17°C)	800	27.4	1.85	0.70	0.84	0.91	25.9	2.05	0.72	0.86	0.93	23.4	2.30	0.75	0.89	0.97	20.9	2.29	0.77	0.93	1.00
	1000	28.2	1.90	0.76	0.92	0.99	26.7	2.10	0.78	0.94	1.00	24.1	2.36	0.81	0.97	1.00	21.5	2.35	0.84	1.00	1.00
	1200	28.6	1.98	0.83	0.99	1.00	27.1	2.18	0.85	1.00	1.00	24.5	2.45	0.90	1.00	1.00	21.8	2.44	0.95	1.00	1.00
67°F (19°C)	800	29.5	1.84	0.51	0.66	0.81	27.7	2.07	0.53	0.68	0.84	26.0	2.32	0.55	0.71	0.87	23.7	2.34	0.58	0.75	0.92
	1000	30.4	1.89	0.57	0.72	0.89	28.6	2.12	0.58	0.74	0.91	26.8	2.38	0.61	0.78	0.96	24.4	2.40	0.62	0.79	0.97
	1200	30.9	1.97	0.62	0.79	0.97	29.0	2.20	0.63	0.81	1.00	27.2	2.48	0.66	0.85	1.00	24.8	2.50	0.69	0.89	1.00
71°F (22°C)	800	39.4	2.37	0.28	0.47	0.59	37.7	2.63	0.29	0.48	0.60	34.4	2.96	0.30	0.50	0.63	31.3	2.96	0.31	0.52	0.65
	1000	40.6	2.43	0.31	0.51	0.64	38.9	2.70	0.31	0.52	0.65	35.5	3.04	0.33	0.54	0.68	32.3	3.04	0.34	0.57	0.71
	1200	41.2	2.53	0.28	0.47	0.59	39.5	2.81	0.29	0.48	0.60	36.0	3.16	0.30	0.50	0.63	32.8	3.16	0.31	0.52	0.65

3 TON COOLING CAPACITY 13GCSX-36

63°F (17°C)	1000	33.1	2.21	0.69	0.83	0.90	31.0	2.45	0.71	0.85	0.92	27.6	2.77	0.75	0.89	0.97	24.3	2.75	0.78	0.94	1.00
	1200	34.1	2.27	0.75	0.90	0.98	32.0	2.52	0.77	0.92	1.00	28.5	2.84	0.81	0.97	1.00	25.1	2.82	0.85	1.00	1.00
	1400	34.6	2.36	0.83	0.99	1.00	32.5	2.62	0.85	1.00	1.00	28.9	2.95	0.90	1.00	1.00	25.5	2.93	0.95	1.00	1.00
67°F (19°C)	1000	36.4	2.21	0.51	0.66	0.81	33.8	2.49	0.53	0.68	0.84	30.7	2.79	0.55	0.71	0.87	27.3	2.78	0.58	0.75	0.92
	1200	37.5	2.27	0.55	0.71	0.87	34.8	2.56	0.58	0.74	0.91	31.6	2.87	0.60	0.77	0.95	28.1	2.86	0.64	0.82	1.00
	1400	38.1	2.36	0.62	0.79	0.97	35.3	2.66	0.63	0.81	1.00	32.1	2.98	0.66	0.85	1.00	28.5	2.97	0.69	0.89	1.00
71°F (22°C)	1000	39.4	2.25	0.28	0.47	0.59	37.7	2.51	0.29	0.48	0.60	34.4	2.84	0.30	0.50	0.63	31.3	2.84	0.31	0.52	0.65
	1200	40.6	2.31	0.31	0.51	0.64	38.9	2.58	0.31	0.52	0.65	35.5	2.92	0.33	0.54	0.68	32.3	2.92	0.34	0.57	0.71
	1400	41.2	2.40	0.28	0.47	0.59	39.5	2.68	0.29	0.48	0.60	36.0	3.03	0.30	0.50	0.63	32.8	3.03	0.31	0.52	0.65

3.5 TON COOLING CAPACITY 13GCSX-42

63°F (17°C)	1200	37.8	2.59	0.70	0.84	0.90	35.3	2.88	0.72	0.86	0.93	31.0	3.23	0.76	0.92	0.99	26.8	3.18	0.81	0.97	1.00
	1400	39.0	2.65	0.76	0.91	0.98	36.4	2.95	0.78	0.94	1.00	32.0	3.31	0.83	1.00	1.00	27.6	3.26	0.88	1.00	1.00
	1600	39.6	2.76	0.83	0.99	1.00	36.9	3.07	0.85	1.00	1.00	32.5	3.45	0.90	1.00	1.00	28.0	3.39	0.95	1.00	1.00
67°F (19°C)	1200	42.4	2.60	0.51	0.66	0.81	40.3	2.92	0.53	0.68	0.84	38.1	3.29	0.55	0.71	0.87	31.5	3.26	0.58	0.75	0.92
	1400	43.7	2.66	0.55	0.70	0.86	41.5	2.99	0.55	0.71	0.87	39.3	3.37	0.59	0.76	0.93	32.5	3.34	0.64	0.82	1.00
	1600	44.4	2.77	0.62	0.79	0.97	42.1	3.11	0.63	0.81	1.00	39.9	3.51	0.66	0.85	1.00	33.0	3.48	0.69	0.89	1.00
71°F (22°C)	1200	43.5	2.64	0.30	0.49	0.62	41.2	2.94	0.30	0.51	0.63	38.5	3.34	0.31	0.52	0.65	35.9	3.32	0.32	0.54	0.67
	1400	44.8	2.70	0.32	0.54	0.67	42.5	3.01	0.33	0.55	0.69	39.7	3.42	0.34	0.57	0.71	37.0	3.40	0.35	0.58	0.73
	1600	45.5	2.81	0.30	0.49	0.62	43.1	3.13	0.30	0.51	0.63	40.3	3.56	0.31	0.52	0.65	37.6	3.54	0.32	0.54	0.67

4 TON COOLING CAPACITY 13GCSX-48

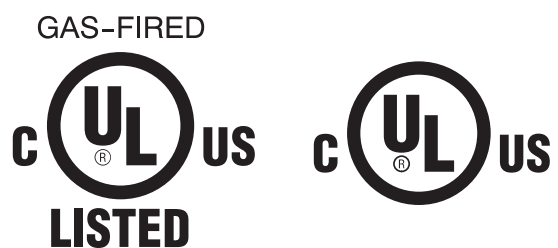
63°F (17°C)	1400	44.2	2.94	0.68	0.82	0.89	41.8	3.26	0.70	0.84	0.91	38.0	3.67	0.72	0.87	0.94	34.3	3.72	0.75	0.89	0.97
	1600	45.6	3.01	0.74	0.89	0.97	43.1	3.34	0.76	0.91	0.99	39.2	3.76	0.79	0.94	1.00	35.4	3.81	0.81	0.97	1.00
	1800	46.3	3.13	0.83	0.99	1.00	43.7	3.48	0.85	1.00	1.00	39.8	3.91	0.90	1.00	1.00	35.9	3.97	0.95	1.00	1.00
67°F (19°C)	1400	48.6	2.98	0.51	0.66	0.81	46.1	3.34	0.53	0.68	0.84	42.5	3.69	0.55	0.71	0.87	38.3	3.79	0.58	0.75	0.92
	1600	50.1	3.05	0.55	0.70	0.87	47.5	3.42	0.56	0.72	0.89	43.8	3.78	0.59	0.75	0.92	39.5	3.88	0.62	0.79	0.97
	1800	50.9	3.18	0.62	0.79	0.97	48.2	3.56	0.63	0.81	1.00	44.5	3.94	0.66	0.85	1.00	40.1	4.04	0.69	0.89	1.00
71°F (22°C)	1400	51.7	3.02	0.28	0.46	0.58	50.0	3.36	0.28	0.47	0.59	46.7	3.80	0.30	0.49	0.62	43.4	3.85	0.31	0.52	0.64
	1600	53.3	3.09	0.30	0.50	0.63	51.5	3.44	0.31	0.51	0.64	48.1	3.89	0.32	0.54	0.67	44.7	3.94	0.34	0.56	0.70
	1800	54.1	3.22	0.28	0.46	0.58	52.3	3.58	0.28	0.47	0.59	48.8	4.05	0.30	0.49	0.62	45.4	4.10	0.31	0.52	0.64

5 TON COOLING CAPACITY 13GCSX-60

63°F (17°C)	1600	55.1	3.70	0.67	0.80	0.87	51.6	4.12	0.68	0.82	0.89	46.3	4.63	0.71	0.85	0.92	40.9	4.59	0.74	0.88	0.96
	1800	56.8	3.80	0.72	0.87	0.94	53.2	4.23	0.74	0.89	0.96	47.7	4.75	0.77	0.92	1.00	42.2	4.71	0.80	0.96	1.00
	2000	57.7	3.95	0.83	0.99	1.00	54.0	4.39	0.85	1.00	1.00	48.4	4.93	0.90	1.00	1.00	42.8	4.89	0.95	1.00	1.00
67°F (19°C)	1600	59.7	3.67	0.51	0.66	0.81	55.8	4.16	0.53	0.68	0.84	53.7	4.67	0.55	0.71	0.87	45.6	4.68	0.58	0.75	0.92
	1800	61.5	3.77	0.54	0.69	0.85	57.5	4.27	0.55	0.71	0.87	55.4	4.79	0.58	0.74	0.91	47.0	4.81	0.59	0.76	0.93
	2000	62.4	3.92	0.62	0.79	0.97	58.4	4.44	0.63	0.81	1.00	56.2	4.98	0.66	0.85	1.00	47.7	5.00	0.69	0.89	1.00
71°F (22°C)	1600	65.2	3.81	0.28	0.46	0.57	62.7	4.23	0.28	0.46	0.58	57.0	4.81	0.29	0.48	0.60	51.3	4.83	0.30	0.50	0.63
	1800	67.2	3.91	0.30	0.50	0.62	64.6	4.34	0.30	0.50	0.63	58.8	4.94	0.31	0.52	0.66	52.9	4.96	0.33	0.54	0.68
	2000	68.2	4.06	0.28	0.46	0.57	65.6	4.51	0.28	0.46	0.58	59.7	5.13	0.29	0.48	0.60	53.7	5.15	0.30	0.50	0.63

REVISIONS

Sections	Description of Change
Document	Updated ratings and specifications.



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