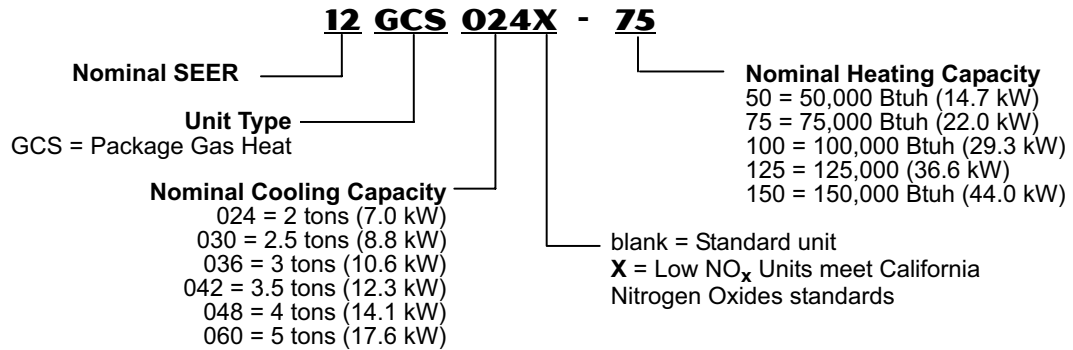


### MODEL NUMBER IDENTIFICATION



### FEATURES

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#### EQUIPMENT WARRANTY

Heat Exchanger - 15 year limited warranty in residential applications, 1 year in non-residential applications.  
Compressor - 10 year limited warranty in residential applications, 1 year in non-residential applications.  
All other covered components - 5 year limited warranty in residential applications, 1 year in non-residential applications.  
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 and ratings certified by ETL and ETL Canada.  
Heating ratings are according to Department of Energy (DOE) test procedures and Federal Trade Commission (FTC) labeling regulations.  
"X" suffix models meet California Nitrogen Oxides (NO<sub>x</sub>) standards and California Seasonal Efficiency requirements.  
Cooling system rated according to DOE test procedures.  
Cooling system rated in accordance with ARI standard 210/240.  
Units are listed by ETL for U.S. and Canada.  
Packaged unit and components within bonded for grounding to meet safety standards required by ETL.  
ISO 9001 Registered Manufacturing Quality System.  
Each unit test operated at the factory before shipment ensuring dependable operation at start-up.

#### CONTROLS

Two pole contactor for increased reliability.  
Trade available components.  
Color coded wiring for easy service.

Visit us at [www.lennox.com](http://www.lennox.com)  
For the latest technical information, [www.davenet.com](http://www.davenet.com)

## FEATURES

### HEATING SYSTEM

#### Heat Exchanger

Aluminized steel tapered S-curve for superior resistance to corrosion and oxidation.  
Crimped no-weld construction for longer life.  
Compact design reduces space requirements in unit cabinet.  
Heat exchanger has been laboratory life cycle tested.

#### 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 removeable from the unit as a single component for ease of service and each burner may be removed individually.

#### Combustion Air Inducer

Heavy duty combustion air inducer prepurges heat exchanger and safely vents flue products.  
Blower is controlled by the integrated blower control /ignition control board.  
Pressure switch proves blower operation before allowing gas valve to open.  
Combustion air inducer operates only during heating cycle.

#### Heating Control

Solid-state integrated blower control / ignition control board with LED diagnostics.

#### Limit Controls

Factory installed and accurately located  
Provide protection from abnormal operating conditions.

### CABINET

Low Profile  
Compact footprint  
Fully insulated to minimize heat loss  
Powder paint for maximum durability.  
Easy service access.  
Coil guard furnished.  
One piece "no leak" top design  
Interchangeable panel for horizontal to down-flow airflow conversion (shipped for horizontal).

### REFRIGERATION SYSTEM

External service gauge ports.

#### Evaporator and Condenser Coils

Copper tube with enhanced fin coils.

#### Condenser Fan

Weather protected heavy duty condenser fan motor with aluminum fan for long life.  
Totally enclosed motor.

## OPTIONAL ACCESSORIES - MUST BE ORDERED EXTRA

### CONTROLS

#### Timed-Off Control (5 minutes)

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.

#### Low Ambient Control Kit

Units operate satisfactorily down to 45°F (7°C) outdoor air temperature without any additional controls.  
Low Ambient Control Kit can be field installed, allowing unit operation down to 30°F (-1°C).

## HIGH ALTITUDE DERATE

Units may be installed at altitudes up to 4500 feet (1372 m) above sea level without any modification. At altitudes above 4500 feet (1372 m), units must be derated 4% for every 1000 feet (470 m) above 4500 feet (1372 m). (Example - At an altitude of 6500 feet (1981 m) the unit would require a derate of 8%.)

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

### COPELAND SCROLL™ COMPRESSOR

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.

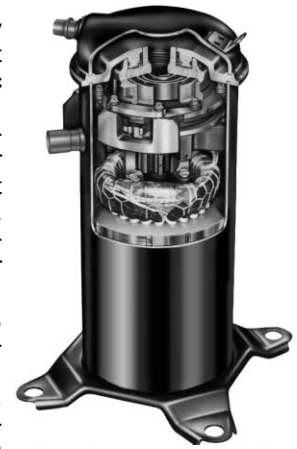
As the spiral movement continues, gas pockets are pushed to the center of the scrolls. Volume between the pockets is simultaneously reduced.

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.



### SUPPLY AIR BLOWER

Insulated compartment to reduce sound.

Easy service split ring design with quick plug-in wiring.

Multi-speed motor for wide airflow range.

PSC pre-lubricated motor for low maintenance and maximum efficiency.

Dynamically balanced blower with resilient motor mounts for smooth and quiet operation.

### AIR FILTERS (REQUIRED)

Not furnished - must be field provided.

Filter rack furnished.

#### High Pressure Switch Kit

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

Protects compressor from excessive condensing pressure.

Automatic reset.

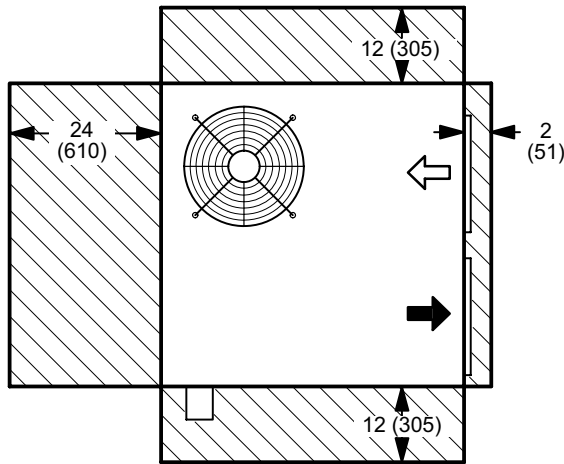
#### Thermostat

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

### LPG/PROPANE CONVERSION KIT

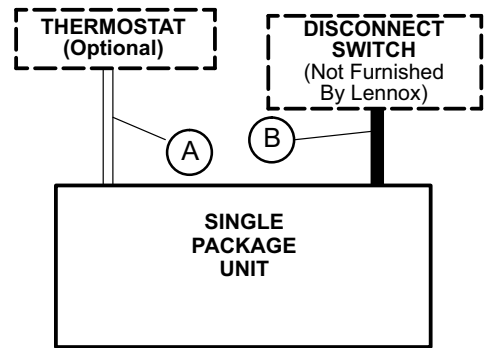
Required for field changeover from natural gas to LPG/Propane.

## INSTALLATION CLEARANCES - IN. (MM)



NOTE — Top Clearance Unobstructed.

## FIELD WIRING



NOTE - All wiring must conform to NEC or CEC and local electrical codes.

- A- Four Wire Low Voltage (Electro-mechanical)
- Five Wire Low Voltage (Electronic)
- B- Two Wire Power (See Electrical Data Table)
- Field Wiring Not Furnished -

## SPECIFICATIONS

## 2-2.5 TON

General Data		Model No.	12GCS024-50 12GCSX024-50	12GCS24-75 12GCSX024-75	12GCS030-50 12GCSX030-50	12GCS030-75 12GCSX030-75
Nominal Tonnage			2	2	2.5	2.5
Gas Heating Performance	Heating capacity input- Btuh (kW)		50,000 (14.7)	75,000 (22.0)	50,000 (14.7)	75,000 (22.0)
	Heating capacity output- Btuh (kW)		40,000 (11.7)	60,000 (17.6)	40,000 (11.7)	60,000 (17.6)
	<sup>1</sup> A.F.U.E.		80.0%	80.0%	80.0%	80.0%
	Temperature Rise - °F (°C)		30-60 (17-33)	45-75 (25-42)	45-75 (25-42)	45-75 (25-42)
	Gas Supply Connection (fpt) - in. (mm)		1/2 (13)	1/2 (13)	1/2 (13)	1/2 (13)
Recommended Gas Supply Pressure - in. w.g. (Pa)			7 (1.7) Natural Gas, 11 (2.7) LPG/Propane			
Cooling Performance	Total cooling capacity - Btuh (kW)		23,000 (6.7)	23,000 (6.7)	29,000 (8.5)	29,000 (8.5)
	Total unit watts		2145	2145	2775	2775
	<sup>2</sup> SEER (Btuh/Watt)		12.00	12.00	12.00	12.00
	EER (Btuh/Watt)		10.73	10.73	10.45	10.45
	Sound Rating Number (dB)		76	76	76	76
Refrigerant Charge (HCFC-22)			4 lbs 8 oz. (2.04 kg)	4 lbs 8 oz. (2.04 kg)	5 lbs. 5 oz. (2.51 kg)	5 lbs. 5 oz. (2.51 kg)
Condensate drain size (fpt) - in. (mm)			(1) 3/4 (19)	(1) 3/4 (19)	(1) 3/4 (19)	(1) 3/4 (19)
Condenser Coil	Net face area - sq. ft. (m <sup>2</sup> )		10.3 (0.96)	10.3 (0.96)	10.3 (0.96)	10.3 (0.96)
	Tube dia. - in. (mm) & No. of rows		5/16 (7.9) - 2	5/16 (7.9) - 2	5/16 (7.9) - 2	5/16 (7.9) - 2
	Fins per inch (m)		18 (709)	18 (709)	18 (709)	18 (709)
Condenser Coil Fan	Motor horsepower (W)		1/8 (93)	1/8 (93)	1/4 (187)	1/4 (187)
	Motor watts		170	170	250	250
	Diameter - in. (mm) & No. of blades		18 (457) - 3	18 (457) - 3	18 (457) - 4	18 (457) - 4
	Air Volume - cfm (L/s)		2000 (945)	2000 (945)	2200 (1040)	2200 (1040)
Evaporator Coil	Net face area - sq. ft. (m <sup>2</sup> )		3.6 (0.33)	3.6 (0.33)	3.6 (0.33)	3.6 (0.33)
	Tube diameter - in. (mm) & No. of rows		5/16 (7.9) - 3	5/16 (7.9) - 3	5/16 (7.9) - 3	5/16 (7.9) - 3
	Fins per inch (m)		14 (551)	14 (551)	14 (551)	14 (551)
Evaporator Blower	Blower wheel size dia. x width in. (mm)		10 x 8 (254 x 203)	10 x 8 (254 x 203)	10 x 8 (254 x 203)	10 x 8 (254 x 203)
	Motor horsepower (W)		1/2 (373)	1/2 (373)	1/2 (373)	1/2 (373)
<sup>3</sup> Number and size of filters - in. (mm)			(1) 24 x 25 x 1 (610 x 635 x 25)			
Net weight of basic unit - lbs. (kg)			280 (132)	290 (137)	295 (134)	300 (142)
Shipping weight of basic unit - lbs. (kg) (1 Package)			295 (139)	305 (144)	310 (141)	315 (149)

## ELECTRICAL DATA

Electrical Data		208/230V	208/230V	208/230V	208/230V
Line voltage data - 60hz 1 phase		208/230V	208/230V	208/230V	208/230V
<sup>4</sup> Maximum overcurrent protection (amps)		25	25	30	30
<sup>5</sup> Minimum Circuit Ampacity		17.3	17.3	21.6	21.6
Unit power factor		.97	.97	.96	.96
Compressor	Rated load amps	10.9	10.9	13.6	13.6
	Locked rotor amps	54	54	72.5	72.5
Condenser Coil Fan Motor	Full load amps	0.9	0.9	1.8	1.8
	Locked rotor amps	1.7	1.7	3.8	3.8
Evaporator Coil Blower Motor	Full load amps	2.8	2.8	2.8	2.8
	Locked rotor amps	5.5	5.5	5.5	5.5

## OPTIONAL ACCESSORIES - MUST BE ORDERED EXTRA

Accessory	42K91	42K88	42K90	42K89
LPG/Propane Kit	42K91	42K88	42K90	42K89
Low Ambient Control Kit	42K91	42K88	42K90	42K89
Timed-Off Control	42K91	42K88	42K90	42K89
High Pressure Switch	42K91	42K88	42K90	42K89

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

<sup>1</sup> Annual Fuel Utilization Efficiency based on U.S. DOE test procedures and FTC labeling regulations.

<sup>2</sup> Rated in accordance with ARI Standard 210/240; 95°F (35°C) outdoor air temperature, 80°F (27°C) db / 67°F (19°C) wb entering evaporator air.

<sup>3</sup> Filters are not furnished and must be field provided.

<sup>4</sup> HACR type circuit breaker or fuse.

<sup>5</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

# SPECIFICATIONS

**3-3.5 TON**

General Data	Model No.	12GCS036-50 12GCSX036-50	12GCS036-75 12GCSX036-75	12GCS036-100 12GCSX036-100	12GCS042-75 12GCSX042-75	12GCS042-100 12GCSX042-100
	Nominal Tonnage	3	3	3	3.5	3.5
<b>Gas Heating Performance</b>	Heating capacity input- Btuh (kW)	50,000 (14.7)	75,000 (22.0)	100,000 (29.3)	75,000 (22.0)	100,000 (29.3)
	Heating capacity output- Btuh (kW)	40,000 (11.7)	60,000 (17.6)	80,000 (23.4)	60,000 (17.6)	80,000 (23.4)
	<sup>1</sup> A.F.U.E.	80.0%	80.0%	80.0%	80.0%	80.0%
	Temperature Rise - °F (°C)	30-60 (17-33)	45-75 (25-42)	40-70 (22-39)	45-75 (14-30)	40-70 (22-39)
	Gas Supply Connection (fpt) - in. (mm)	1/2 (13)	1/2 (13)	1/2 (13)	1/2 (13)	1/2 (13)
Recommended Gas Supply Pressure - in. w.g. (Pa)		7 (1.7) Natural Gas, 11 (2.7) LPG/Propane				
<b>Cooling Performance</b>	Total cooling capacity - Btuh (kW)	35,600 (10.4)	35,600 (10.4)	35,600 (10.4)	41,500 (12.2)	41,500 (12.2)
	Total unit watts	3330	3330	3330	3925	3925
	<sup>2</sup> SEER (Btuh/Watt)	12.00	12.00	12.00	12.00	12.00
	EER (Btuh/Watt)	10.70	10.70	10.70	10.57	10.57
	Sound Rating Number (dB)	80	80	80	80	80
<b>Refrigerant Charge (HCFC-22)</b>		6 lbs. 14 oz. (3.24 kg)	6 lbs. 14 oz. (3.24 kg)	6 lbs. 14 oz. (3.24 kg)	8 lbs 5 oz. (3.8 kg)	8 lbs 5 oz. (3.8 kg)
<b>Condensate drain size (fpt) - in. (mm)</b>		(1) 3/4 (19)	(1) 3/4 (19)	(1) 3/4 (19)	(1) 3/4 (19)	(1) 3/4 (19)
<b>Condenser Coil</b>	Net face area - sq. ft. (m <sup>2</sup> )	12.33 (1.15)	12.33 (1.15)	12.33 (1.15)	14.39 (1.34)	14.39 (1.34)
	Tube dia. - in. (mm) & No. of rows	5/16 (7.9) - 2	5/16 (7.9) - 2	5/16 (7.9) - 2	3/8 (9.5) - 1	3/8 (9.5) - 1
	Fins per inch (m)	18 (709)	18 (709)	18 (709)	18 (709)	18 (709)
<b>Condenser Coil Fan</b>	Motor horsepower (W)	1/4 (187)	1/4 (187)	1/4 (187)	1/4 (187)	1/4 (187)
	Motor watts	250	250	250	250	250
	Diameter - in. (mm) & No. of blades	18 (457) - 4	18 (457) - 4	18 (457) - 4	18 (457) - 4	18 (457) - 4
	Air Volume - cfm (L/s)	2200 (1040)	2200 (1040)	2200 (1040)	2200 (1040)	2200 (1040)
<b>Evaporator Coil</b>	Net face area - sq. ft. (m <sup>2</sup> )	3.6 (0.33)	3.6 (0.33)	3.6 (0.33)	4.2 (0.39)	4.2 (0.39)
	Tube diameter - in. (mm) & No. of rows	3/8 (9.5) - 3	3/8 (9.5) - 3	3/8 (9.5) - 3	3/8 (9.5) - 3	3/8 (9.5) - 3
	Fins per inch (m)	14 (551)	14 (551)	14 (551)	14 (551)	14 (551)
<b>Evaporator Blower</b>	Blower wheel size dia. x width in. (mm)	10 x 8 (254 x 203)	10 x 8 (254 x 203)	10 x 8 (254 x 203)	10 x 9 (254 x 229)	10 x 9 (254 x 229)
	Motor horsepower (W)	1/2 (373)	1/2 (373)	1/2 (373)	1/2 (373)	1/2 (373)
<sup>3</sup> Number and size of filters - in. (mm)		(1) 24 x 25 x 1 (610 x 635 x 25)			(1) 28 x 25 x 1 (711 x 635 x 25)	
<b>Net weight of basic unit - lbs. (kg)</b>		350 (165)	320 (151)	330 (156)	350 (165)	360 (170)
<b>Shipping weight of basic unit - lbs. (kg) (1 Package)</b>		365 (172)	335 (158)	345 (163)	365 (172)	375 (177)
<b>Electrical characteristics (60 hz)</b>		208/230V-1ph-60hz				

## ELECTRICAL DATA

<b>Electrical Data</b>	Line voltage data - 60hz 1 phase	208/230V	208/230V	208/230V	208/230V	208/230V
	<sup>4</sup> Maximum overcurrent protection (amps)	35	35	35	40	40
	<sup>5</sup> Minimum Circuit Ampacity	24.9	24.9	24.9	28	28
	Unit power factor	.98	.98	.98	.95	.95
<b>Compressor</b>	Rated load amps	16.2	16.2	16.2	19.2	19.2
	Locked rotor amps	88	88	88	104	104
<b>Condenser Coil Fan Motor</b>	Full load amps	1.8	1.8	1.8	1.8	1.8
	Locked rotor amps	3.8	3.8	3.8	3.8	3.8
<b>Evaporator Coil Blower Motor</b>	Full load amps	2.8	2.8	2.8	3.4	3.4
	Locked rotor amps	5.5	5.5	5.5	8.3	8.3

## OPTIONAL ACCESSORIES - MUST BE ORDERED EXTRA

<b>LPG/Propane Kit</b>	<b>42K91</b>	<b>42K91</b>	<b>42K91</b>	<b>42K91</b>	<b>42K91</b>
<b>Low Ambient Control Kit</b>	<b>42K88</b>	<b>42K88</b>	<b>42K88</b>	<b>42K88</b>	<b>42K88</b>
<b>Timed-Off Control</b>	<b>42K90</b>	<b>42K90</b>	<b>42K90</b>	<b>42K90</b>	<b>42K90</b>
<b>High Pressure Switch</b>	<b>42K89</b>	<b>42K89</b>	<b>42K89</b>	<b>42K89</b>	<b>42K89</b>

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

<sup>1</sup> Annual Fuel Utilization Efficiency based on U.S. DOE test procedures and FTC labeling regulations.

<sup>2</sup> Rated in accordance with ARI Standard 210/240; 95°F (35°C) outdoor air temperature, 80°F (27°C) db / 67°F (19°C) wb entering evaporator air.

<sup>3</sup> Filters are not furnished and must be field provided.

<sup>4</sup> HACR type circuit breaker or fuse.

<sup>5</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

<b>SPECIFICATIONS</b>		<b>4-5 TON</b>			
General Data	Model No.	12GCS048-100 12GCSX048-100	12GCS048-125 12GCSX048-125	12GCS060-100 12GCSX060-100	12GCS060-125 12GCSX060-125
	Nominal Tonnage	4	4	5	5
<b>Gas Heating Performance</b>	Heating capacity input- Btuh (kW)	100,000 (29.3)	125,000 (36.6)	100,000 (29.3)	125,000 (36.6)
	Heating capacity output- Btuh (kW)	80,000 (23.4)	100,000 (29.3)	80,000 (23.4)	100,000 (29.3)
	<sup>1</sup> A.F.U.E.	80.0%	80.0%	80.0%	80.0%
	Temperature Rise - °F (°C)	40-70 (22-39)	45-75 (14-30)	40-70 (22-39)	45-75 (14-30)
	Gas Supply Connections (fpt) In. (mm)	1/2 (13)	1/2 (13)	1/2 (13)	1/2 (13)
	Recommended Gas Supply Pressure - in. w.g. (Pa)	7 (1.7) Natural Gas, 11 (2.7) LPG/Propane			
<b>Cooling Performance</b>	Total cooling capacity - Btuh (kW)	48,000 (14.1)	48,000 (14.1)	58,000 (17.0)	58,000 (17.0)
	Total unit watts	4530	4530	5420	5420
	<sup>2</sup> SEER (Btuh/Watt)	12.00	12.00	12.00	12.00
	EER (Btuh/Watt)	10.60	10.60	10.70	10.70
	Sound Rating Number (dB)	80	80	80	80
<b>Refrigerant Charge (HCFC-22)</b>		10 lbs 4 oz. (4.73 kg)	10 lbs 4 oz. (4.73 kg)	9 lbs. 15 oz. (4.69 kg)	9 lbs. 15 oz. (4.69 kg)
<b>Condensate drain size (fpt) - in. (mm)</b>		(1) 3/4 (19)	(1) 3/4 (19)	(1) 3/4 (19)	(1) 3/4 (19)
<b>Condenser Coil</b>	Net face area - sq. ft. (m <sup>2</sup> )	17.5 (1.63)	17.5 (1.63)	17.5 (1.63)	17.5 (1.63)
	Tube dia. - in. (mm) & No. of rows	3/8 (9.5) - 1	3/8 (9.5) - 1	3/8 (9.5) - 1	3/8 (9.5) - 1
	Fins per inch (m)	18 (709)	18 (709)	21 (827)	21 (827)
<b>Condenser Coil Fan</b>	Motor horsepower (W)	1/4 (187)	1/4 (187)	1/4 (187)	1/4 (187)
	Motor watts	325	325	330	330
	Diameter - in. (mm) & No. of blades	20 (508) - 4	20 (508) - 4	20 (508) - 4	20 (508) - 4
	Air Volume - cfm (L/s)	2800 (1320)	2800 (1320)	2800 (1320)	2800 (1320)
<b>Evaporator Coil</b>	Net face area - sq. ft. (m <sup>2</sup> )	6.1 (0.57)	6.1 (0.57)	6.1 (0.57)	6.1 (0.57)
	Tube diameter - in. (mm) & No. of rows	3/8 (9.5) - 3	3/8 (9.5) - 3	3/8 (9.5) - 3	3/8 (9.5) - 3
	Fins per inch (m)	15 (591)	15 (591)	15 (591)	15 (591)
<b>Evaporator Blower</b>	Blower wheel size dia. x width in. (mm)	10 x 10 (254 x 254)	10 x 10 (254 x 254)	10 x 10 (254 x 254)	10 x 10 (254 x 254)
	Motor horsepower (W)	3/4 (560)	3/4 (560)	3/4 (560)	3/4 (560)
<b><sup>3</sup> Number and size of filters - in. (mm)</b>		(1) 30 x 30 x 1 (762 x 762 x 25)	(1) 30 x 30 x 1 (762 x 762 x 25)	(1) 30 x 30 x 1 (762 x 762 x 25)	(1) 30 x 30 x 1 (762 x 762 x 25)
<b>Net weight of basic unit - lbs. (kg)</b>		420 (198)	430 (230)	430 (230)	440 (207)
<b>Shipping weight of basic unit - lbs. (kg) (1 Package)</b>		435 (205)	445 (210)	445 (210)	455 (215)
<b>Electrical characteristics (60 hz)</b>		208/230v-1ph-60hz			
<b>ELECTRICAL DATA</b>					
<b>Electrical Data</b>	Line voltage data - 60hz 1 phase	208/230v	208/230v	208/230v	208/230v
	<sup>4</sup> Maximum overcurrent protection (amps)	40	40	50	50
	<sup>5</sup> Minimum Circuit Ampacity	31	31	37.4	37.4
	Unit power factor	.98	.98	.98	.98
<b>Compressor</b>	Rated load amps	24	24	25.6	25.6
	Locked rotor amps	137	137	170	170
<b>Condenser Coil Fan Motor</b>	Full load amps	1.8	1.8	1.8	1.8
	Locked rotor amps	3.8	3.8	3.8	3.8
<b>Evaporator Coil Blower Motor</b>	Full load amps	3.6	3.6	3.6	3.6
	Locked rotor amps	10.0	10.0	10.0	10.0
<b>OPTIONAL ACCESSORIES - MUST BE ORDERED EXTRA</b>					
<b>LPG/Propane Kit</b>		<b>42K91</b>	<b>42K91</b>	<b>42K91</b>	<b>42K91</b>
<b>Low Ambient Control Kit</b>		<b>42K88</b>	<b>42K88</b>	<b>42K88</b>	<b>42K88</b>
<b>Timed-Off Control</b>		<b>42K90</b>	<b>42K90</b>	<b>42K90</b>	<b>42K90</b>
<b>High Pressure Switch</b>		<b>42K89</b>	<b>42K89</b>	<b>42K89</b>	<b>42K89</b>

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

<sup>1</sup> Annual Fuel Utilization Efficiency based on U.S. DOE test procedures and FTC labeling regulations.

<sup>2</sup> Rated in accordance with ARI Standard 210/240; 95°F (35°C) outdoor air temperature, 80°F (27°C) db / 67°F (19°C) wb entering evaporator air.

<sup>3</sup> Filters are not furnished and must be field provided.

<sup>4</sup> HACR type circuit breaker or fuse.

<sup>5</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

# RATINGS

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

## 12GCS024 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																												
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)										
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T)							
			L/s	cfm		kW	Btuh	Dry Bulb				kW	Btuh	Input	Dry Bulb			kW	Btuh	Input	Dry Bulb			kW	Btuh	Input	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
24°C	27°C	29°C	24°C	27°C	29°C	24°C	27°C	29°C	24°C	27°C	29°C	24°C	27°C	29°C	24°C	27°C	29°C	24°C	27°C	29°C											
63°F (17.2°C)	700	330	6.6	22,500	1460	.73	.88	1.00	6.2	21,200	1550	.75	.87	1.00	5.9	20,100	1820	.76	.87	1.00	5.3	18,200	2055	.80	.88	1.00					
	800	380	6.7	23,000	1470	.74	.89	1.00	6.3	21,600	1560	.76	.89	1.00	6.0	20,500	1835	.77	.89	1.00	5.5	18,600	2070	.81	.90	1.00					
	900	425	6.8	23,300	1485	.81	.97	1.00	6.4	21,900	1575	.84	.96	1.00	6.1	20,800	1855	.85	.96	1.00	5.5	18,900	2090	.89	.97	1.00					
67°F (19.4°C)	700	330	7.0	24,000	1495	.56	.70	.83	6.6	22,500	1590	.58	.72	.86	6.3	21,400	1865	.59	.73	.87	5.7	19,400	2105	.62	.76	.91					
	800	380	7.2	24,500	1505	.57	.71	.86	6.7	23,000	1600	.60	.73	.88	6.4	21,800	1880	.62	.74	.90	5.8	19,800	2120	.66	.78	.94					
	900	425	7.3	24,800	1520	.62	.77	.89	6.8	23,300	1615	.64	.79	.92	6.5	22,100	1900	.65	.80	.93	5.9	20,100	2140	.69	.84	.96					
71°F (21.7°C)	700	330	7.5	25,700	1535	.49	.53	.68	7.1	24,100	1635	.51	.55	.70	6.7	22,900	1920	.51	.55	.71	6.1	20,800	2165	.54	.58	.75					
	800	380	7.7	26,200	1545	.50	.54	.69	7.2	24,600	1645	.53	.56	.71	6.8	23,300	1935	.52	.56	.72	6.2	21,200	2180	.55	.60	.76					
	900	425	7.8	26,600	1565	.55	.58	.72	7.3	25,000	1660	.56	.60	.74	6.9	23,700	1950	.57	.61	.75	6.3	21,500	2200	.60	.64	.79					

NOTE — All values are gross capacities and do not include evaporator coil blower motor heat deduction.

## 12GCS030 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																												
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)										
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T)							
			L/s	cfm		kW	Btuh	Dry Bulb				kW	Btuh	Input	Dry Bulb			kW	Btuh	Input	Dry Bulb			kW	Btuh	Input	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
24°C	27°C	29°C	24°C	27°C	29°C	24°C	27°C	29°C	24°C	27°C	29°C	24°C	27°C	29°C	24°C	27°C	29°C	24°C	27°C	29°C											
63°F (17.2°C)	415	875	8.3	28,400	1780	.72	.86	1.00	7.8	26,700	1890	.74	.86	1.00	5.9	26,200	2280	.75	.86	1.00	7.2	24,700	2615	.78	.86	1.00					
	470	1000	8.5	29,000	1790	.73	.88	1.00	8.0	27,300	1905	.75	.88	1.00	6.0	26,700	2295	.76	.88	1.00	7.4	25,200	2635	.79	.87	1.00					
	530	1125	8.6	29,400	1810	.80	.95	1.00	8.1	27,700	1920	.82	.95	1.00	6.1	27,100	2315	.84	.95	1.00	7.5	25,600	2660	.87	.94	1.00					
67°F (19.4°C)	415	875	8.9	30,200	1820	.55	.69	.82	8.3	28,400	1935	.57	.71	.85	6.3	27,800	2335	.58	.72	.86	7.7	26,200	2680	.60	.74	.88					
	470	1000	9.0	30,700	1835	.56	.70	.85	8.5	29,000	1950	.58	.72	.87	6.4	28,400	2350	.61	.73	.88	7.8	26,800	2700	.61	.76	.91					
	530	1125	9.2	31,300	1855	.62	.76	.88	8.6	29,400	1970	.63	.78	.91	6.5	28,800	2375	.64	.79	.92	8.0	27,200	2725	.67	.82	.94					
71°F (21.7°C)	415	875	9.5	32,400	1875	.48	.52	.67	8.9	30,400	1990	.50	.54	.69	6.7	29,800	2400	.51	.55	.70	8.2	28,100	2755	.53	.57	.73					
	470	1000	9.7	33,000	1885	.49	.53	.68	9.1	31,000	2005	.53	.55	.70	6.8	30,400	2415	.53	.56	.71	8.4	28,700	2775	.56	.58	.74					
	530	1125	9.8	33,500	1905	.54	.58	.71	9.2	31,500	2025	.55	.59	.73	6.9	30,800	2440	.56	.60	.74	8.5	29,100	2805	.59	.63	.77					

NOTE — All values are gross capacities and do not include evaporator coil blower motor heat deduction.

## 12GCS036 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																												
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)										
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T)							
			L/s	cfm		kW	Btuh	Dry Bulb				kW	Btuh	Input	Dry Bulb			kW	Btuh	Input	Dry Bulb			kW	Btuh	Input	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
24°C	27°C	29°C	24°C	27°C	29°C	24°C	27°C	29°C	24°C	27°C	29°C	24°C	27°C	29°C	24°C	27°C	29°C	24°C	27°C	29°C											
63°F (17.2°C)	495	1050	10.2	34,900	2280	.72	.86	1.00	9.6	32,800	2425	.74	.86	1.00	9.3	31,900	2820	.75	.86	1.00	8.4	28,600	3190	.79	.87	1.00					
	565	1200	10.4	35,600	2295	.73	.88	1.00	9.8	33,500	2440	.75	.88	1.00	9.5	32,500	2840	.76	.88	1.00	8.5	29,200	3210	.80	.89	1.00					
	635	1350	10.6	36,100	2320	.80	.95	1.00	10.0	34,000	2465	.82	.95	1.00	9.7	33,000	2870	.84	.95	1.00	8.7	29,600	3245	.88	.95	1.00					
67°F (19.4°C)	495	1050	10.9	37,100	2335	.55	.69	.82	10.2	34,900	2485	.57	.71	.85	9.9	33,900	2890	.58	.72	.86	8.9	30,400	3265	.61	.75	.90					
	565	1200	11.1	37,900	2350	.56	.70	.85	10.4	35,600	2500	.58	.72	.87	10.1	34,600	2910	.61	.73	.88	9.1	31,000	3290	.62	.77	.92					
	635	1350	11.3	38,400	2375	.62	.76	.88	10.6	36,100	2525	.63	.78	.91	10.3	35,100	2940	.64	.79	.92	9.2	31,500	3325	.68	.83	.95					
71°F (21.7°C)	495	1050	11.6	39,700	2400	.48	.52	.67	10.9	37,300	2550	.50	.54	.69	10.6	36,300	2970	.51	.55	.70	9.5	32,500	3360	.53	.58	.74					
	565	1200	11.9	40,500	2420	.49	.53	.68	11.2	38,100	2570	.50	.55	.70	10.8	37,000	2990	.53	.56	.71	9.7	33,200	3380	.54	.59	.75					
	635	1350	12.1	41,100	2440	.54	.58	.71	11.3	38,700	2595	.55	.59	.73	11.0	37,600	3020	.56	.60	.74	9.9	33,700	3415	.59	.63	.78					

NOTE — All values are gross capacities and do not include evaporator coil blower motor heat deduction.

## 12GCS042 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Condenser Coil																												
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)										
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T)							
			L/s	cfm		kW	Btuh	Dry Bulb				kW	Btuh	Input	Dry Bulb			kW	Btuh	Input	Dry Bulb			kW	Btuh	Input	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
24°C	27°C	29°C	24°C	27°C	29°C	24°C	27°C	29°C	24°C	27°C	29°C	24°C	27°C	29°C	24°C	27°C	29°C	24°C	27°C	29°C											
63°F (17.2°C)	590	1250	11.9	40,700	2690	.73	.88	1.00	11.2	38,200	2860	.75	.87	1.00	10.2	34,800	3355	.79	.91	1.00	9.7	33,200	3800	.79	.87	1.00					
	660	1400	12.2	41,500	2710	.74	.89	1.00	11.4	39,000	2880	.76	.89	1.00	10.4	35,500	3375	.80	.92	1.00	9.9	33,910	3825	.80	.89	1.00					
	730	1550	12.3	42,100	2735	.81	.97	1.00	11.6	39,600	2910	.84	.96	1.00	10.6	36,100	3410	.88	1.00	1.00	10.1	34,400	3865	.88	.96	1.00					
67°F (19.4°C)	590	1250	12.7	43,300	2755	.56	.70	.83	11.9	40,700	2930	.58	.72	.86	10.8	37,000	3435	.61	.75	.90	10.4	35,400	3895	.61	.75	.90					
	660	1400	13.0	44,200	2775	.57	.71	.86	12.2	41,500	2950	.58	.73	.88	11.1	37,800	3460	.62	.77	.93	10.6	36,100	3920	.62	.77	.92					
	730	1550	13.1	44,800	2805	.62	.77	.89	12.3	42,100	2980	.64	.79	.92	11.3	38,400	3495	.68	.83	.97	10.7	36,600	3960	.68	.83	.95					

## RATINGS

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

### 12GCS048 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	75°F/24°C	80°F/27°C	85°F/29°C	kW	Btuh	75°F/24°C	80°F/27°C	85°F/29°C	kW	Btuh	75°F/24°C	80°F/27°C	85°F/29°C	kW	Btuh	75°F/24°C	80°F/27°C	85°F/29°C					
63°F (17.2°C)	825	1750	4.2	47,000	3410	0.74	0.89	1.00	4.5	45,700	3650	0.74	0.88	1.00	4.9	41,500	4085	0.81	0.86	1.00	5.4	36,300	4590	0.87	0.87	1.00
	945	2000	4.3	48,000	3435	0.75	0.91	1.00	4.6	46,600	3675	0.75	0.90	1.00	5.0	42,300	4115	0.82	0.88	1.00	5.6	37,000	4620	0.88	0.89	1.00
	1060	2250	4.4	48,700	3470	0.82	0.98	1.00	4.8	47,300	3715	0.83	0.98	1.00	5.2	43,000	4155	0.90	0.95	1.00	5.7	37,600	4665	0.97	0.94	1.00
67°F (19.4°C)	825	1750	4.3	50,100	3495	0.57	0.70	0.84	4.6	47,000	3715	0.59	0.73	0.87	5.0	47,200	4150	0.58	0.72	0.86	5.5	42,300	4635	0.61	0.75	0.90
	945	2000	4.4	51,100	3520	0.58	0.72	0.87	4.7	48,000	3740	0.59	0.74	0.90	5.1	48,100	4180	0.58	0.73	0.88	5.6	43,200	4670	0.62	0.77	0.92
	1060	2250	4.5	51,800	3555	0.63	0.78	0.91	4.8	48,700	3775	0.65	0.80	0.93	5.3	48,900	4220	0.64	0.79	0.92	5.8	43,800	4715	0.68	0.83	0.94
71°F (21.7°C)	825	1750	4.4	53,600	3590	0.50	0.54	0.69	4.6	54,100	3710	0.51	0.55	0.64	5.1	52,100	4195	0.51	0.55	0.65	5.6	48,400	4715	0.53	0.58	0.67
	945	2000	4.5	54,600	3615	0.50	0.55	0.70	4.7	55,200	3735	0.52	0.56	0.65	5.2	53,100	4225	0.51	0.56	0.66	5.7	49,400	4750	0.54	0.59	0.68
	1060	2250	4.7	55,500	3655	0.55	0.59	0.73	4.8	56,000	3775	0.57	0.61	0.68	5.3	53,900	4265	0.56	0.60	0.69	5.8	50,100	4795	0.59	0.63	0.71

NOTE — All values are gross capacities and do not include evaporator coil blower motor heat deduction.

### 12GCS060 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T)		
						Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb		
L/s	cfm	kW	Btuh	75°F/24°C	80°F/27°C	85°F/29°C	kW	Btuh	75°F/24°C	80°F/27°C	85°F/29°C	kW	Btuh	75°F/24°C	80°F/27°C	85°F/29°C	kW	Btuh	75°F/24°C	80°F/27°C	85°F/29°C					
63°F (17.2°C)	825	1750	5.0	56,800	4040	0.71	0.85	1.00	5.4	53,200	4370	0.74	0.85	1.00	5.9	48,400	4870	0.81	0.86	1.00	6.5	44,200	5450	0.85	0.86	1.00
	945	2000	5.1	58,000	4070	0.72	0.87	1.00	5.5	54,300	4400	0.75	0.87	1.00	6.0	49,400	4905	0.82	0.88	1.00	6.6	45,100	5485	0.86	0.87	1.00
	1060	2250	5.3	58,900	4110	0.79	0.94	1.00	5.7	55,100	4445	0.83	0.94	1.00	6.2	50,100	4955	0.90	0.95	1.00	6.8	45,800	5540	0.95	0.93	1.00
67°F (19.4°C)	825	1750	5.1	60,500	4140	0.55	0.68	0.81	5.5	56,800	4400	0.56	0.70	0.83	6.0	55,100	4970	0.58	0.72	0.86	6.6	51,200	5555	0.60	0.74	0.88
	945	2000	5.3	61,700	4170	0.55	0.69	0.84	5.6	58,000	4430	0.57	0.71	0.86	6.1	56,200	5005	0.58	0.73	0.88	6.7	52,200	5595	0.61	0.76	0.91
	1060	2250	5.4	62,600	4210	0.61	0.75	0.87	5.7	58,900	4475	0.62	0.77	0.89	6.3	57,000	5055	0.64	0.79	0.92	6.9	53,000	5650	0.67	0.82	0.93
71°F (21.7°C)	825	1750	5.3	64,700	4255	0.48	0.52	0.66	5.5	62,400	4465	0.49	0.53	0.64	6.1	59,800	5030	0.51	0.55	0.66	6.6	56,800	5635	0.53	0.57	0.66
	945	2000	5.4	66,000	4285	0.48	0.53	0.67	5.6	63,600	4495	0.50	0.54	0.65	6.2	61,100	5065	0.51	0.56	0.67	6.8	58,000	5675	0.53	0.58	0.67
	1060	2250	5.6	67,000	4330	0.53	0.57	0.70	5.8	64,600	4540	0.55	0.59	0.68	6.4	62,000	5120	0.56	0.60	0.70	7.0	58,900	5735	0.59	0.63	0.70

NOTE — All values are gross capacities and do not include evaporator coil blower motor heat deduction.

## BLOWER DATA

### 12GCS024 BLOWER PERFORMANCE

#### <sup>1</sup> Horizontal Air Flow

External Static Pressure		Air Volume at Various Blower Speeds					
		High		Medium		Low	
in. w.g.	Pa	cfm	L/s	cfm	L/s	cfm	L/s
.20	50	1350	635	1140	540	1050	495
.30	75	1280	605	1090	515	1010	475
.40	100	1220	575	1050	495	970	455
.50	125	1140	540	980	460	900	425
.60	150	1060	500	920	435	850	400
.70	175	960	455	820	385	760	360
.80	200	850	400	750	355	700	330

NOTE — All air data is measured external to unit without air filters.  
<sup>1</sup> For down-flow air volume, add 0.10 in. w.g. (25 Pa) to duct static.

### 12GCS042 BLOWER PERFORMANCE

#### <sup>1</sup> Horizontal Air Flow

External Static Pressure		Air Volume at Various Blower Speeds					
		High		Medium		Low	
in. w.g.	Pa	cfm	L/s	cfm	L/s	cfm	L/s
.20	50	1590	750	1520	715	1470	695
.30	75	1540	725	1470	695	1420	670
.40	100	1460	690	1430	675	1350	635
.50	125	1380	650	1340	630	1270	600
.60	150	1300	615	1250	590	1200	565
.70	175	1220	575	1190	560	1130	535
.80	200	1130	535	1100	520	1050	495

NOTE — All air data is measured external to unit without air filters.  
<sup>1</sup> For down-flow air volume, add 0.10 in. w.g. (25 Pa) to duct static.

### 12GCS030 AND 12GCS036 BLOWER PERFORMANCE

#### <sup>1</sup> Horizontal Air Flow

External Static Pressure		Air Volume at Various Blower Speeds					
		High		Medium		Low	
in. w.g.	Pa	cfm	L/s	cfm	L/s	cfm	L/s
.20	50	1420	670	1170	550	1060	500
.30	75	1360	640	1140	540	1040	490
.40	100	1300	615	1100	520	1020	480
.50	125	1220	575	1050	495	970	460
.60	150	1140	540	990	465	920	435
.70	175	1050	495	910	430	850	400
.80	200	940	445	800	380	770	360

NOTE — All air data is measured external to unit without air filters.  
<sup>1</sup> For down-flow air volume, add 0.10 in. w.g. (25 Pa) to duct static.

### 12GCS048 AND 12GCS060 BLOWER PERFORMANCE

#### <sup>1</sup> Horizontal Air Flow

External Static Pressure		Air Volume at Various Blower Speeds					
		High		Medium		Low	
in. w.g.	Pa	cfm	L/s	cfm	L/s	cfm	L/s
.20	50	1900	895	1690	800	1530	720
.30	75	1800	850	1620	765	1490	700
.40	100	1720	810	1560	735	1430	675
.50	125	1610	760	1480	700	1360	640
.60	150	1503	710	1390	655	1290	610
.70	175	1420	670	1260	595	1180	555
.80	200	1270	600	1100	520	1030	485

NOTE — All air data is measured external to unit without air filters.  
<sup>1</sup> For down-flow air volume, add 0.10 in. w.g. (25 Pa) to duct static.

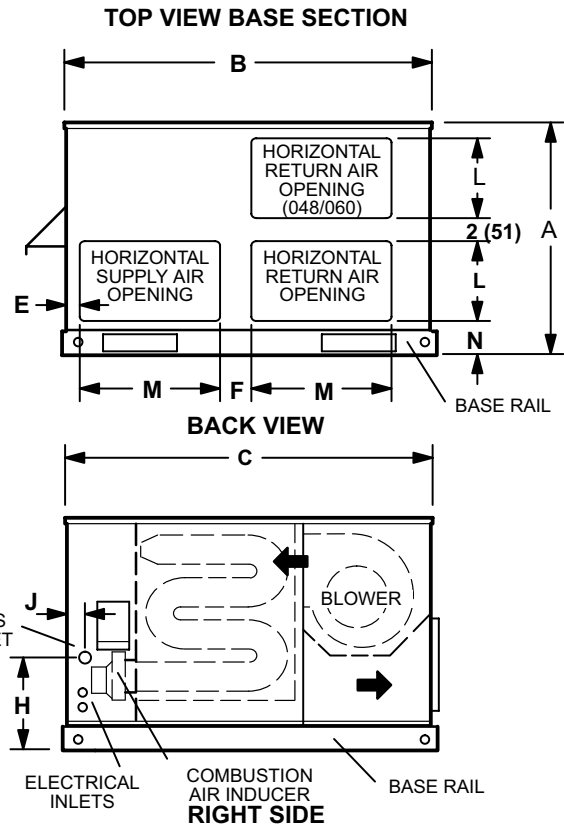
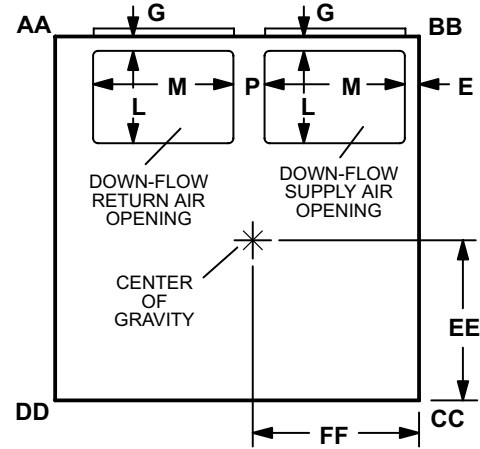
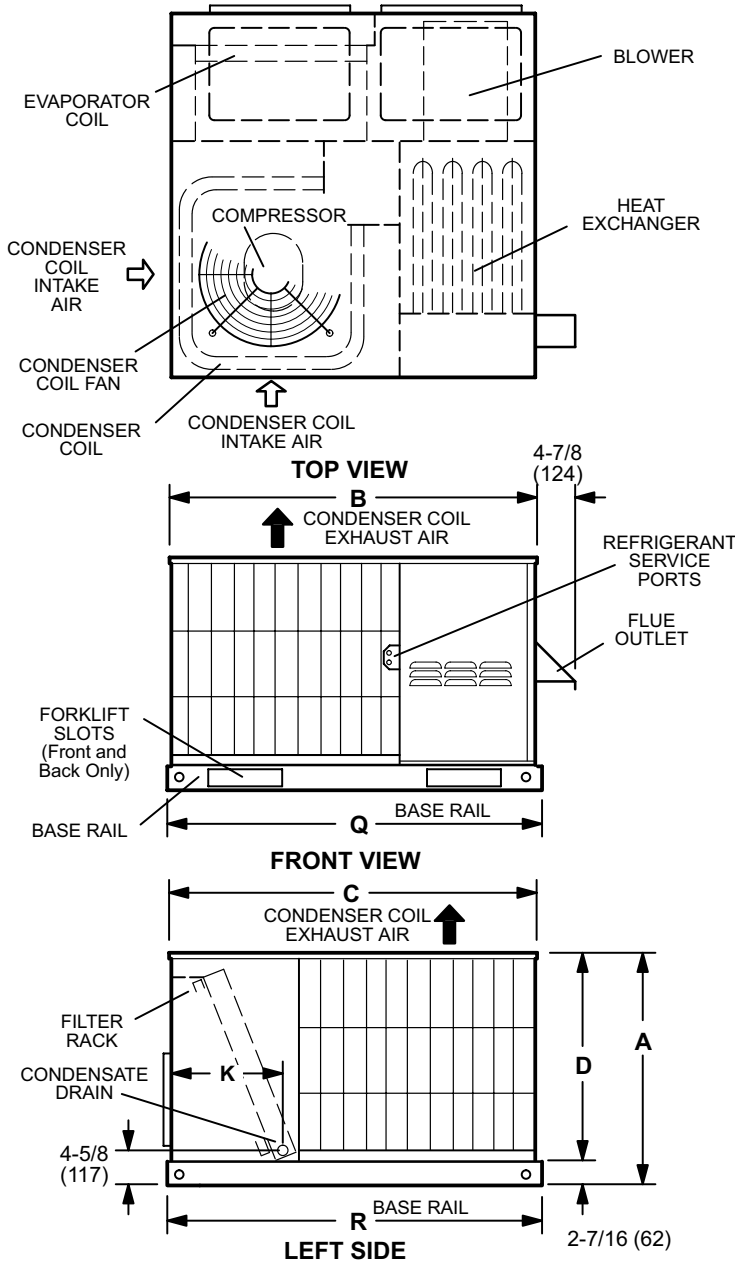
# DIMENSIONS - INCHES (MM)

## CORNER WEIGHTS

Model Number	AA		BB		CC		DD	
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg
12GCS024	80	36	69	31	73	33	99	45
12GCS030	82	37	71	32	75	34	103	47
12GCS036	89	40	78	35	82	37	111	50
12GCS042	97	44	89	40	88	40	130	59
12GCS048, 060	117	53	103	47	106	48	144	65

## CENTER OF GRAVITY

Model Number	EE		FF	
	inch	mm	inch	mm
12GCS024	21	533	25-1/2	648
12GCS030	21	533	25-1/2	648
12GCS036	21	533	25-1/2	648
12GCS042	21	533	25-1/2	648
12GCS048, 060	22-3/4	578	30-1/2	775



Model Number	A		B		C		D		E		F		G		H	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
12GCS024, 30, 36	27-11/16	703	45-5/8	1159	45-5/8	1159	25-1/4	641	1-13/16	46	4	102	1-7/8	48	17-15/16	456
12GCS042	31-11/16	805	45-5/8	1159	45-5/8	1159	29-1/4	743	1-13/16	46	4	102	1-7/8	48	19-15/16	506
12GCS048, 060	33-11/16	856	54-11/16	1389	49-5/8	1260	31-7/16	799	1-1/8	29	6-1/8	159	2-1/4	57	19-15/16	506

Model Number	J		K		L		M		N		P		Q		R	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
12GCS024, 30, 36	2-1/4	57	15-5/8	397	11-1/2	292	17-1/2	445	5	127	4	102	46-3/8	1179	46-3/8	1179
12GCS042	2-1/4	57	15-5/8	397	11-1/2	292	17-1/2	445	5	127	4	102	46-3/8	1179	46-3/8	1179
12GCS048, 060	3-1/2	89	17-1/8	435	12	305	21-1/2	527	4-1/8	105	5-5/8	143	55-1/4	1403	50-1/2	1283