LENNOX

ENGINEERING DATA

PACKAGED GAS / ELECTRIC

10GCS

ELITE® SERIES

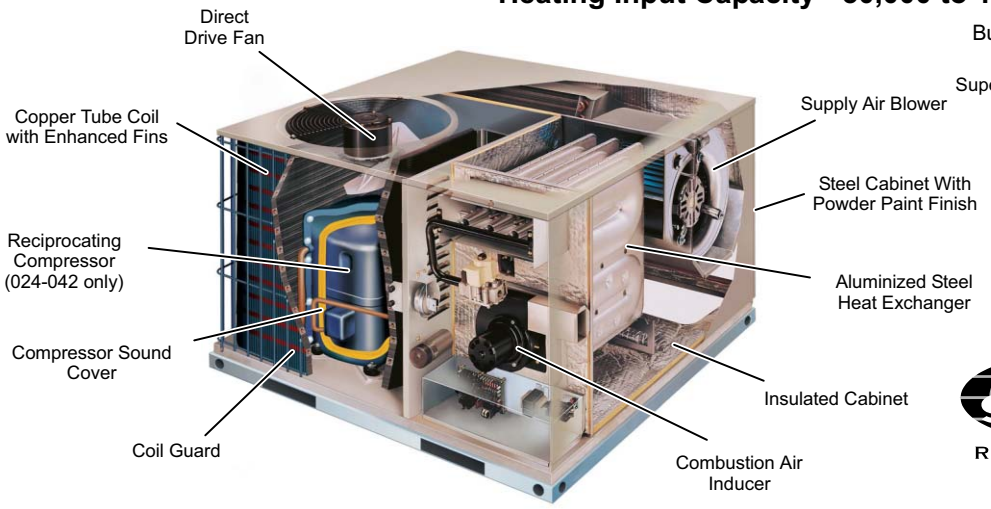
2 to 5 Ton

AFUE - 80% / SEER 10.0

Net Cooling Capacity - 23,400 to 58,000 Btuh

Heating Input Capacity - 50,000 to 150,000 Btuh

Bulletin No. 210249
November 2003
Supersedes March 1999



ISO 9001 REGISTERED QUALITY SYSTEMS

MODEL NUMBER IDENTIFICATION

10 GCS 024X - 75

Nominal SEER

Unit Type
GCS = Package Gas Heat

Nominal Cooling Capacity
024 = 2 tons (7.0 kW)
030 = 2.5 tons (8.8 kW)
036 = 3 tons (10.6 kW)
042 = 3.5 tons (12.3 kW)
048 = 4 tons (14.1 kW)
060 = 5 tons (17.6 kW)

blank = Standard unit
X = Low NO_x Units meet California Nitrogen Oxides standards

Nominal Heating Capacity
50 = 50,000 Btuh (14.7 kW)
75 = 75,000 Btuh (22.0 kW)
100 = 100,000 Btuh (29.3 kW)
125 = 125,000 (36.6 kW)
150 = 150,000 Btuh (44.0 kW)

FEATURES

CONTENTS

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_x) 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.

Visit us at www.lennox.com
For the latest technical information, www.davenet.com

FEATURES

EQUIPMENT WARRANTY

Heat Exchanger - 10 year limited warranty in residential applications, one year in non-residential applications.
Compressor - 5 year limited warranty in residential applications, one year in non-residential applications.
All other covered components - five year limited warranty in residential applications, one year in non-residential applications.
Refer to Lennox Equipment Limited Warranty Certificate included with unit for specific details.

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, 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.

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.

REFRIGERATION SYSTEM

External service gauge ports.

Compressor

Heavy duty, high efficiency reciprocating compressor. Scroll compressor on 048 and 060 models.
Overload protected.
Running gear spring mounted within sealed housing (except 048, 060 models).
Resiliently mounted on rubber mounts.
Compressor cover reduces operating sound levels.

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.

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).

CONTROLS

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

AIR FILTERS (REQUIRED)

Not furnished - must be field provided.
Filter rack furnished.

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 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.

SPECIFICATIONS — 2-2.5 TON

General Data	Model No.	10GCS024-50 10GCS024X-50	10GCS024-75 10GCS024X-75	10GCS030-50 10GCS030X-50	10GCS030-75 10GCS030X-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)
	[1] 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		7 (1.7) Natural Gas, 11 (2.7) LPG/Propane	
Cooling Performance	Total cooling capacity - Btuh (kW)	23,400 (6.9)	23,400 (6.9)	29,000 (8.5)	29,000 (8.5)
	Total unit watts	2540	2540	3150	3150
	[2] SEER (Btuh/Watt)	10.00	10.00	10.00	10.00
	EER (Btuh/Watt)	9.2	9.2	9.2	9.2
	Sound Rating Number (dB)	76	76	76	76
Refrigerant Charge (HCFC-22)		3 lbs. 4 oz. (1.47 kg)	3 lbs. 4 oz. (1.47 kg)	3 lbs. 3 oz. (1.45 kg)	3 lbs. 3 oz. (1.45 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^2)	9.3 (0.86)	9.3 (0.86)	10.3 (0.96)	10.3 (0.96)
	Tube dia. - in. (mm) & No. of rows	5/16 (8) - 1	5/16 (8) - 1	3/8 (9.5) - 1	3/8 (9.5) - 1
	Fins per inch (m)	18 (709)	18 (709)	18 (709)	18 (709)
Condenser Coil Fan	Motor horsepower (W)	1/8 (93)	1/8 (93)	1/8 (93)	1/8 (93)
	Motor watts	170	170	170	170
	Diameter - in. (mm) & No. of blades	18 (457) - 3	18 (457) - 3	18 (457) - 4	18 (457) - 4
	Air Volume - cfm (L/s)	2100 (990)	2100 (990)	2100 (990)	2100 (990)
Evaporator Coil	Net face area - sq. ft. (m^2)	3.6 (0.33)	3.6 (0.33)	3.6 (0.33)	3.6 (0.33)
	Tube diameter - in. (mm) & No. of rows	3/8 (9.5) - 2	3/8 (9.5) - 2	3/8 (9.5) - 2	3/8 (9.5) - 2
	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)
[3] Number and size of filters - in. (mm)		(1) 24 x 25 x 1 (610 x 635 x 25)	(1) 24 x 25 x 1 (610 x 635 x 25)	(1) 24 x 25 x 1 (610 x 635 x 25)	(1) 24 x 25 x 1 (610 x 635 x 25)
Net weight of basic unit - lbs. (kg)		280 (127)	290 (132)	295 (134)	300 (136)
Shipping weight of basic unit - lbs. (kg) (1 Package)		295 (134)	305 (138)	310 (141)	315 (143)
Electrical characteristics (60 hz)		208/230V - 1 ph - 60 hz			

ELECTRICAL DATA

Electrical Data					
	Line voltage data - 60hz 1 phase	208/230V	208/230V	208/230V	208/230V
	[4] Maximum overcurrent protection (amps)	25	25	30	30
	[5] Minimum Circuit Ampacity	16.6	16.6	20.8	20.8
	Unit power factor	.98	.98	.99	.99
Compressor	Rated load amps	10.5	10.5	13.7	13.7
	Locked rotor amps	56	56	76.1	76.1
Condenser Coil Fan Motor	Full load amps	0.9	0.9	0.9	0.9
	Locked rotor amps	1.7	1.7	1.7	1.7
Evaporator Coil Blower Motor	Full load amps	2.6	2.6	2.6	2.6
	Locked rotor amps	5.5	5.5	5.5	5.5

OPTIONAL ACCESSORIES - MUST BE ORDERED EXTRA

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

NOTE - Extremes of operating range are plus and minus 10% of line voltage.
[1] Annual Fuel Utilization Efficiency based on U.S. DOE test procedures and FTC labeling regulations.
[2] 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.
[3] Filters are not furnished and must be field provided.
[4] HACR type circuit breaker or fuse.
[5] 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.	10GCS036-50 10GCS036X-50	10GCS036-75 10GCS036X-75	10GCS036-100 10GCSX036-100	10GCS042-75 10GCSX042-75	10GCS042-100 10GCSX042-100
	Nominal Tonnage	3	3	3	3.5	3.5
Gas Heating Performance	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)
	[1] A.F.U.E.	80.0%	80.0%	80.0%	80.0%	80.0%
	Temperature Rise - °F (°C)	45-75 (25-42)	45-75 (25-42)	55-85 (31-47)	45-75 (14-30)	55-85 (31-47)
	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				
Cooling Performance	Total cooling capacity - Btuh (kW)	35,000 (10.3)	35,000 (10.3)	35,000 (10.3)	41,000 (12.0)	41,000 (12.0)
	Total unit watts	3850	3850	3850	4460	4460
	[2] SEER (Btuh/Watt)	10.00	10.00	10.00	10.00	10.00
	EER (Btuh/Watt)	9.1	9.1	9.1	9.2	9.2
	Sound Rating Number (dB)	80	80	80	80	80
Refrigerant Charge (HCFC-22)		3 lbs. 10 oz. (1.64 kg)	3 lbs. 10 oz. (1.64 kg)	3 lbs. 10 oz. (1.64 kg)	4 lbs. 9 oz. (2.07 kg)	4 lbs. 9 oz. (2.07 kg)
Condensate drain size (fpt) - in. (mm)		(1) 3/4 (19)	(1) 3/4 (19)	(1) 3/4 (19)	(1) 3/4 (19)	(1) 3/4 (19)
Condenser Coil	Net face area - sq. ft. (m^2)	10.3 (0.96)	10.3 (0.96)	10.3 (0.96)	10.3 (0.96)	10.3 (0.96)
	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	3/8 (9.5) - 1
	Fins per inch (m)	18 (709)	18 (709)	18 (709)	18 (709)	18 (709)
Condenser Coil Fan	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)	2300 (1085)	2300 (1085)	2300 (1085)	2300 (1085)	2300 (1085)
Evaporator Coil	Net face area - sq. ft. (m^2)	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)
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 9 (254 x 229)	10 x 9 (254 x 229)
	Motor horsepower (W)	1/2 (373)	1/2 (373)	1/2 (373)	1 (746)	1 (746)
[3] 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)	
Net weight of basic unit - lbs. (kg)		350 (159)	320 (145)	330 (150)	350 (158)	360 (163)
Shipping weight of basic unit - lbs. (kg) (1 Package)		365 (166)	335 (152)	345 (156)	365 (166)	375 (170)
Electrical characteristics (60 hz)		208/230V - 1 ph - 60 hz			208/230V-1ph-60hz	

ELECTRICAL DATA

Electrical Data	Line voltage data - 60hz 1 phase	208/230V	208/230V	208/230V	208/230V	208/230V
	[4] Maximum overcurrent protection (amps)	30	30	30	35	35
	[5] Minimum Circuit Ampacity	24.9	24.9	24.9	26.7	26.7
	Unit power factor	.95	.95	.95	.95	.95
Compressor	Rated load amps	16.4	16.4	16.4	17.2	17.2
	Locked rotor amps	96	96	96	105	105
Condenser Coil Fan Motor	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
Evaporator Coil Blower Motor	Full load amps	2.6	2.6	2.6	3.4	3.4
	Locked rotor amps	5.5	5.5	5.5	8.3	8.3

OPTIONAL ACCESSORIES - MUST BE ORDERED EXTRA

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

NOTE - Extremes of operating range are plus and minus 10% of line voltage.
[1] Annual Fuel Utilization Efficiency based on U.S. DOE test procedures and FTC labeling regulations.
[2] 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.
[3] Filters are not furnished and must be field provided.
[4] HACR type circuit breaker or fuse.
[5] Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

SPECIFICATIONS — 4 TON

General Data	Model No.	10GCS048-100 10GCSX048-100	10GCS048-125 10GCSX048-125	10GCS048-150 10GCSX048-150
	Nominal Tonnage	4	4	4
Gas Heating Performance	Heating capacity input- Btuh (kW)	100,000 (29.3)	125,000 (36.6)	150,000 (44.0)
	Heating capacity output- Btuh (kW)	80,000 (23.4)	100,000 (29.3)	120,000 (35.2)
	[1] A.F.U.E.	80.0%	80.0%	80.0%
	Temperature Rise - °F (°C)	40-70 (22-39)	45-75 (14-30)	60-90 (33-50)
	Gas Supply Connection (fpt) - in. (mm)	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)	47,000 (13.8)	47,000 (13.8)	47,000 (13.8)
	Total unit watts	5050	5050	5050
	[2] SEER (Btuh/Watt)	10.00	10.00	10.00
	EER (Btuh/Watt)	9.3	9.3	9.3
	Sound Rating Number (dB)	80	80	80
Refrigerant Charge (HCFC-22)		5 lbs. 13 oz. (2.64 kg)	5 lbs. 13 oz. (2.64 kg)	5 lbs. 13 oz. (2.64 kg)
Condensate drain size (fpt) - in. (mm)		(1) 3/4 (19)	(1) 3/4 (19)	(1) 3/4 (19)
Condenser Coil	Net face area - sq. ft. (m^2)	15.4 (1.43)	15.4 (1.43)	15.4 (1.43)
	Tube dia. - in. (mm) & No. of rows	3/8 (9.5) - 1	3/8 (9.5) - 1	3/8 (9.5) - 1
	Fins per inch (m)	18 (709)	18 (709)	18 (709)
Condenser Coil Fan	Motor horsepower (W)	1/4 (187)	1/4 (187)	1/4 (187)
	Motor watts	325	325	325
	Diameter - in. (mm) & No. of blades	20 (508) - 4	20 (508) - 4	20 (508) - 4
	Air Volume - cfm (L/s)	3000 (1415)	3000 (1415)	3000 (1415)
Evaporator Coil	Net face area - sq. ft. (m^2)	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
	Fins per inch (m)	15 (591)	15 (591)	15 (591)
Evaporator Blower	Blower wheel size dia. x width in. (mm)	12 x 10 (305 x 254)	12 x 10 (305 x 254)	12 x 10 (305 x 254)
	Motor horsepower (W)	1 (746)	1 (746)	1 (746)
[3] Number and size of filters - in. (mm)		(1) 30 x 30 x 1 (762 x 762 x 25)		
Net weight of basic unit - lbs. (kg)		410 (186)	430 (195)	440 (200)
Shipping weight of basic unit - lbs. (kg) (1 Package)		425 (193)	445 (202)	455 (206)
Electrical characteristics (60 hz)		208/230V-1ph-60hz	208/230V-1ph-60hz	208/230V-1ph-60hz

ELECTRICAL DATA

Electrical Data	Line voltage data - 60hz 1 phase	208/230v	208/230v	208/230v
	[4] Maximum overcurrent protection (amps)	40	40	40
	[5] Minimum Circuit Ampacity	34.1	34.1	34.1
	Unit power factor	.98	.98	.98
Compressor	Rated load amps	21.8	21.8	21.8
	Locked rotor amps	116	116	116
Condenser Coil Fan Motor	Full load amps	1.8	1.8	1.8
	Locked rotor amps	3.8	3.8	3.8
Evaporator Coil Blower Motor	Full load amps	5.0	5.0	5.0
	Locked rotor amps	10.9	10.9	10.9

OPTIONAL ACCESSORIES - MUST BE ORDERED EXTRA

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

NOTE - Extremes of operating range are plus and minus 10% of line voltage.
[1] Annual Fuel Utilization Efficiency based on U.S. DOE test procedures and FTC labeling regulations.
[2] 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.
[3] Filters are not furnished and must be field provided.
[4] HACR type circuit breaker or fuse.
[5] Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

SPECIFICATIONS — 5 TON

General Data	Model No.	10GCS060-100 10GCSX060-100	10GCS060-125 10GCSX060-125	10GCS060-150 10GCSX060-150
	Nominal Tonnage	5	5	5
Gas Heating Performance	Heating capacity input- Btuh (kW)	100,000 (29.3)	125,000 (36.6)	150,000 (44.0)
	Heating capacity output- Btuh (kW)	80,000 (23.4)	100,000 (29.3)	120,000 (35.2)
	[1] A.F.U.E.	80.0%	80.0%	80.0%
	Temperature Rise - °F (°C)	40-70 (22-39)	45-75 (14-30)	60-90 (33-50)
	Gas Supply Connection (fpt) - in. (mm)	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)	58,000 (17.0)	58,000 (17.0)	58,000 (17.0)
	Total unit watts	6445	6445	6445
	[2] SEER (Btuh/Watt)	10.00	10.00	10.00
	EER (Btuh/Watt)	9.0	9.0	9.0
	Sound Rating Number (dB)	80	80	80
Refrigerant Charge (HCFC-22)		6 lbs. 14 oz. (3.12 kg)	6 lbs. 14 oz. (3.12 kg)	6 lbs. 14 oz. (3.12 kg)
Condensate drain size (fpt) - in. (mm)		(1) 3/4 (19)	(1) 3/4 (19)	(1) 3/4 (19)
Condenser Coil	Net face area - sq. ft. (m^2)	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
	Fins per inch (m)	18 (709)	18 (709)	18 (709)
Condenser Coil Fan	Motor horsepower (W)	1/4 (187)	1/4 (187)	1/4 (187)
	Motor watts	325	325	325
	Diameter - in. (mm) & No. of blades	20 (508) - 4	20 (508) - 4	20 (508) - 4
	Air Volume - cfm (L/s)	3000 (1415)	3000 (1415)	3000 (1415)
Evaporator Coil	Net face area - sq. ft. (m^2)	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
	Fins per inch (m)	15 (591)	15 (591)	15 (591)
Evaporator Blower	Blower wheel size dia. x width in. (mm)	12 x 10 (305 x 254)	12 x 10 (305 x 254)	12 x 10 (305 x 254)
	Motor horsepower (W)	.9 (671)	.9 (671)	.9 (671)
[3] Number and size of filters - in. (mm)		(1) 30 x 30 x 1 (762 x 762 x 25)		
Net weight of basic unit - lbs. (kg)		450 (204)	460 (209)	470 (213)
Shipping weight of basic unit - lbs. (kg) (1 Package)		465 (211)	475 (215)	485 (220)
Electrical characteristics (60 hz)		208/230V-1ph-60hz		

ELECTRICAL DATA

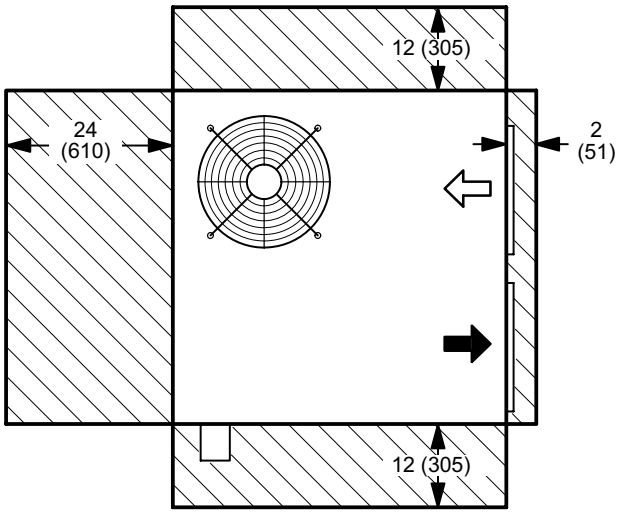
Electrical Data	Line voltage data - 60hz 1 phase	208/230V	208/230V	208/230V
	[4] Maximum overcurrent protection (amps)	45	45	45
	[5] Minimum Circuit Ampacity	38.1	38.1	38.1
	Unit power factor	.98	.98	.98
Compressor	Rated load amps	25.0	25.0	25.0
	Locked rotor amps	170	170	170
Condenser Coil Fan Motor	Full load amps	1.8	1.8	1.8
	Locked rotor amps	3.8	3.8	3.8
Evaporator Coil Blower Motor	Full load amps	5.0	5.0	5.0
	Locked rotor amps	10.9	10.9	10.9

OPTIONAL ACCESSORIES - MUST BE ORDERED EXTRA

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

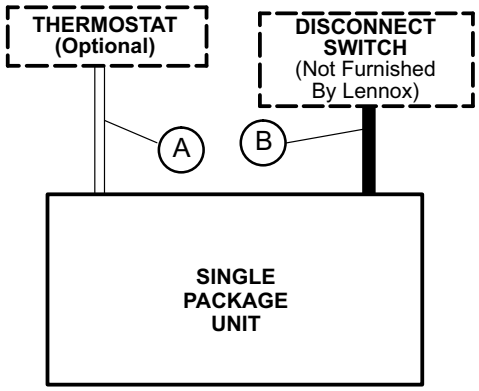
NOTE - Extremes of operating range are plus and minus 10% of line voltage.
[1] Annual Fuel Utilization Efficiency based on U.S. DOE test procedures and FTC labeling regulations.
[2] Rated in accordance with ARI Standard 210/240; 95°F (35°C) outdoor air temperature, 80°F (27°C) db / 67°F (19°C) wb entering evaporator air.
[3] Filters are not furnished and must be field provided.
[4] HACR type circuit breaker or fuse.
[5] Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

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 -

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.

RATINGS

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

10GCS024 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) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) 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)	330	700	2.3	22,900	1860	0.72	0.86	1.00	2.4	21,600	1980	0.74	0.86	1.00	2.5	19,300	2095	0.77	0.88	1.00	2.6	17,000	2215	0.82	0.90	1.00
	380	800	2.3	23.400	1875	0.73	0.88	1.00	2.5	22,000	1990	0.75	0.88	1.00	2.6	19,700	2110	0.78	0.90	1.00	2.7	17,300	2230	0.83	0.92	1.00
	425	900	2.4	23,800	1895	0.80	0.95	1.00	2.5	22,300	2010	0.82	0.95	1.00	2.7	20,000	2130	0.86	0.97	1.00	2.8	17,600	2250	0.92	0.99	1.00
67°F (19.4°C)	330	700	2.3	24,400	1905	0.55	0.69	0.82	2.5	22,900	2025	0.57	0.71	0.85	2.6	20,500	2145	0.59	0.74	0.88	2.7	18,100	2265	0.63	0.78	0.93
	380	800	2.4	24,900	1920	0.56	0.70	0.85	2.5	23,400	2040	0.58	0.72	0.87	2.6	21,000	2160	0.60	0.75	0.91	2.7	18,500	2285	0.64	0.80	0.96
	425	900	2.4	25,300	1940	0.62	0.76	0.88	2.6	23,800	2060	0.63	0.78	0.91	2.7	21,300	2185	0.66	0.81	0.94	2.8	18,700	2305	0.70	0.86	0.99
71°F (21.7°C)	330	700	2.4	26,100	1960	0.48	0.52	0.67	2.5	24,500	2085	0.50	0.54	0.69	2.7	22,000	2205	0.52	0.56	0.72	2.8	19,400	2330	0.55	0.60	0.77
	380	800	2.4	26,600	1975	0.49	0.53	0.68	2.6	25,000	2100	0.50	0.55	0.70	2.7	22,400	2220	0.53	0.57	0.73	2.8	19,700	2345	0.56	0.61	0.78
	425	900	2.5	27,000	1995	0.54	0.58	0.71	2.6	25,400	2120	0.55	0.59	0.73	2.8	22,800	2245	0.58	0.62	0.76	2.9	20,000	2370	0.62	0.66	0.81

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

10GCS030 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) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) 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)	415	875	2.9	28,400	2425	0.74	0.89	1.00	3.1	26,700	2575	0.76	0.88	1.00	3.2	24,200	2715	0.78	0.89	1.00	3.3	21,000	2810	0.84	0.92	1.00
	470	1000	3.0	29,000	2440	0.75	0.91	1.00	3.1	27,300	2595	0.77	0.90	1.00	3.3	24,700	2735	0.79	0.91	1.00	3.4	21,500	2825	0.85	0.94	1.00
	530	1125	3.0	29,400	2465	0.82	0.98	1.00	3.2	27,700	2620	0.85	0.98	1.00	3.4	25,100	2760	0.87	0.98	1.00	3.5	21,800	2855	0.94	0.99	1.00
67°F (19.4°C)	415	875	3.0	30,200	2485	0.57	0.70	0.84	3.2	28,400	2640	0.59	0.73	0.87	3.3	25,700	2780	0.60	0.74	0.89	3.4	22,400	2875	0.65	0.80	0.95
	470	1000	3.0	30,900	2500	0.58	0.72	0.87	3.2	29,000	2660	0.59	0.74	0.90	3.4	26,300	2800	0.61	0.76	0.92	3.5	22,800	2895	0.66	0.82	0.98
	530	1125	3.1	31,300	2525	0.63	0.78	0.91	3.3	29,400	2685	0.65	0.80	0.93	3.4	26,700	2830	0.67	0.82	0.96	3.6	23,200	2925	0.72	0.89	1.00
71°F (21.7°C)	415	875	3.0	32,400	2555	0.50	0.54	0.69	3.3	30,400	2715	0.51	0.55	0.71	3.4	27,600	2860	0.53	0.57	0.73	3.5	23,900	2955	0.57	0.61	0.78
	470	1000	3.1	33,000	2570	0.50	0.55	0.70	3.3	31,000	2735	0.52	0.56	0.72	3.4	28,100	2880	0.53	0.58	0.74	3.6	24,400	2980	0.57	0.63	0.80
	530	1125	3.2	33,500	2595	0.55	0.59	0.73	3.4	31,500	2760	0.57	0.61	0.75	3.6	28,500	2905	0.59	0.63	0.77	3.7	24,800	3010	0.63	0.68	0.83

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

10GCS036 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) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) 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)	495	1050	3.5	34,300	2905	0.73	0.88	1.00	3.8	32,200	3090	0.75	0.87	1.00	4.0	29,500	3295	0.78	0.89	1.00	4.2	27,300	3380	0.79	0.87	1.00
	565	1200	3.6	35,000	2925	0.74	0.89	1.00	3.8	32,900	3110	0.76	0.89	1.00	4.0	30,100	3320	0.79	0.91	1.00	4.2	27,800	3400	0.80	0.89	1.00
	635	1350	3.7	35,500	2955	0.81	0.97	1.00	4.0	33,400	3140	0.84	0.96	1.00	4.2	30,600	3350	0.87	0.98	1.00	4.4	28,200	3435	0.88	0.95	1.00
67°F (19.4°C)	495	1050	3.6	36,500	2975	0.56	0.70	0.83	3.9	34,300	3165	0.58	0.72	0.86	4.1	31,400	3375	0.60	0.74	0.89	4.3	29,000	3460	0.61	0.75	0.90
	565	1200	3.7	37,200	2995	0.57	0.71	0.86	3.9	35,000	3185	0.58	0.73	0.88	4.1	32,100	3400	0.61	0.76	0.92	4.3	29,600	3485	0.62	0.77	0.92
	635	1350	3.8	37,800	3025	0.62	0.77	0.89	4.1	35,500	3220	0.64	0.79	0.92	4.3	32,500	3435	0.67	0.82	0.96	4.5	30,000	3520	0.68	0.83	0.95
71°F (21.7°C)	495	1050	3.7	39,000	3060	0.49	0.53	0.68	4.0	36,700	3250	0.51	0.55	0.70	4.2	33,600	3470	0.53	0.57	0.73	4.4	31,000	3560	0.53	0.58	0.74
	565	1200	3.8	39,800	3080	0.50	0.54	0.69	4.0	37,400	3275	0.51	0.56	0.71	4.3	34,300	3495	0.53	0.58	0.74	4.4	31,700	3585	0.54	0.59	0.75
	635	1350	3.9	40,400	3110	0.55	0.58	0.72	4.2	38,000	3310	0.56	0.60	0.74	4.4	34,800	3530	0.59	0.63	0.77	4.6	32,100	3620	0.59	0.63	0.78

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

10GCS042 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) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) 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)	590	1250	4.0	40,200	3310	0.74	0.89	1.00	4.3	37,800	3520	0.76	0.88	1.00	4.4	36,300	3695	0.78	0.89	1.00	4.6	31,100	3905	0.82	0.90	1.00
	660	1400	4.1	41,000	3335	0.75	0.91	1.00	4.4	38,500	3545	0.77	0.90	1.00	4.5	37,000	3720	0.79	0.91	1.00	4.7	31,800	3935	0.83	0.92	1.00
	730	1550	4.2	41,600	3365	0.82	0.98	1.00	4.5	39,100	3580	0.85	0.98	1.00	4.7	37,600	3755	0.87	0.98	1.00	4.9	32,200	3975	0.92	0.99	1.00
67°F (19.4°C)	590	1250	4.1	42,800	3390	0.57	0.70	0.84	4.4	40,200	3605	0.59	0.73	0.87	4.5	38,600	3785	0.60	0.74	0.89	4.7	33,100	4000	0.63	0.78	0.93
	660	1400	4.2	43,600	3415	0.58	0.72	0.87	4.5	41,000	3630	0.59	0.74	0.90	4.6	39,400	3810	0.61	0.76	0.92	4.8	33,800	4030	0.64	0.80	0.96
	730	1550	4.3	44,300	3450	0.63	0.78	0.91	4.6	41,600	3665	0.65	0.80	0.93	4.8	40,000	3850	0.67	0.82	0.96	5.0	34,300	4070	0.70	0.86	0.99
71°F (21.7°C)	590	1250	4.3	45,700	3485	0.50	0.54	0.69	4.5	43,000	3705	0.51	0.55	0.71	4.7	41,300	3890	0.53	0.57	0.73	4.9	35,400	4115	0.55	0.60	0.77
	660	1400	4.3	46,700	3510	0.50	0.55	0.70	4.6	43,900	3730	0.52	0.56	0.72	4.8	42,100	3920	0.53	0.58	0.74	5.0	36,200	4145	0.56	0.61	0.78
	730	1550	4.5	47,400	3545	0.55	0.59	0.73	4.7	44,500	3770	0.57	0.61	0.75	4.9	42,700	3955	0.59	0.63	0.77	5.1	36,700	4185	0.62	0.66	0.81

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

RATINGS

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

10GCS048 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) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) 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)	660	1400	4.6	46,100	3595	0.74	0.89	1.00	4.9	43,100	3805	0.76	0.88	1.00	5.3	38,900	4200	0.85	0.89	1.00	5.7	34,900	4625	0.89	0.89	1.00
	755	1600	4.7	47,000	3620	0.75	0.91	1.00	5.0	44,000	3835	0.77	0.90	1.00	5.4	39,700	4230	0.86	0.91	1.00	5.8	35,600	4660	0.90	0.91	1.00
	850	1800	4.8	47,700	3655	0.82	0.98	1.00	5.1	44,700	3870	0.85	0.98	1.00	5.5	40,200	4275	0.95	0.98	1.00	6.0	36,100	4705	0.99	0.98	1.00
67°F (19.4°C)	660	1400	4.7	49,000	3685	0.57	0.70	0.84	5.0	46,100	3915	0.59	0.73	0.87	5.4	43,900	4295	0.60	0.74	0.89	5.8	40,200	4750	0.63	0.77	0.92
	755	1600	4.8	50,000	3710	0.58	0.72	0.87	5.1	47,000	3945	0.59	0.74	0.90	5.5	44,800	4325	0.61	0.76	0.92	5.9	41,000	4780	0.63	0.79	0.95
	850	1800	4.9	50,800	3745	0.63	0.78	0.91	5.2	47,700	3985	0.65	0.80	0.93	5.6	45,500	4365	0.67	0.82	0.96	6.1	41,600	4830	0.70	0.85	0.98
71°F (21.7°C)	660	1400	4.8	52,400	3785	0.50	0.54	0.69	5.0	51,100	3970	0.51	0.55	0.66	5.4	48,300	4385	0.53	0.57	0.67	5.9	44,600	4860	0.55	0.59	0.69
	755	1600	4.9	53,500	3815	0.50	0.55	0.70	5.1	52,100	3995	0.52	0.56	0.67	5.5	49,200	4415	0.53	0.58	0.68	6.0	45,500	4895	0.55	0.60	0.70
	850	1800	5.1	54,300	3850	0.55	0.59	0.73	5.3	52,900	4035	0.57	0.61	0.70	5.7	50,000	4460	0.59	0.63	0.71	6.2	46,100	4945	0.61	0.65	0.73

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

10GCS060 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) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Compressor Motor Watts Input	Sensible To Total Ratio (S/T) 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	5.8	56,800	4610	0.74	0.89	1.00	6.1	54,000	4890	0.72	0.88	1.00	6.6	47,700	5355	0.83	0.89	1.00	7.2	42,400	5945	0.88	0.89	1.00
	945	2000	5.9	58,000	4640	0.75	0.91	1.00	6.3	55,100	4925	0.73	0.90	1.00	6.8	48,700	5390	0.84	0.91	1.00	7.3	43,300	5985	0.89	0.91	1.00
	1060	2250	6.0	58,900	4685	0.82	0.98	1.00	6.5	56,000	4970	0.80	0.98	1.00	6.9	49,400	5445	0.92	0.98	1.00	7.6	44,000	6045	0.96	0.98	1.00
67°F (19.4°C)	825	1750	5.9	60,500	4720	0.57	0.70	0.84	6.3	56,800	5020	0.59	0.73	0.87	6.8	52,900	5530	0.60	0.74	0.89	7.3	47,900	6080	0.63	0.77	0.92
	945	2000	6.0	61,700	4755	0.58	0.72	0.87	6.4	58,000	5055	0.59	0.74	0.90	6.9	54,000	5570	0.61	0.76	0.92	7.5	48,900	6120	0.63	0.79	0.95
	1060	2250	6.2	62,600	4800	0.63	0.78	0.91	6.6	58,900	5105	0.65	0.80	0.93	7.1	54,800	5625	0.67	0.82	0.96	7.7	49,700	6180	0.70	0.85	0.97
71°F (21.7°C)	825	1750	6.1	64,700	4855	0.50	0.54	0.69	6.4	62,000	5110	0.51	0.55	0.65	6.9	58,000	5680	0.53	0.57	0.68	7.5	54,200	6260	0.55	0.59	0.70
	945	2000	6.2	66,000	4885	0.50	0.55	0.70	6.5	63,200	5145	0.52	0.56	0.66	7.1	59,200	5720	0.53	0.58	0.69	7.6	55,300	6305	0.55	0.60	0.71
	1060	2250	6.4	67,000	4935	0.55	0.59	0.73	6.7	64,200	5200	0.57	0.61	0.69	7.3	60,100	5775	0.59	0.63	0.72	7.8	56,100	6365	0.61	0.65	0.74

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

BLOWER DATA

10GCS024 BLOWER PERFORMANCE
[1] 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.
[1] For down-flow air volume, add 0.10 in. w.g. (25 Pa) to duct static.

10GCS030 AND 10GCS036 BLOWER PERFORMANCE
[1] 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	515	1050	495	970	460
.60	150	1140	535	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.
[1] For down-flow air volume, add 0.10 in. w.g. (25 Pa) to duct static.

10GCS042 BLOWER PERFORMANCE
[1] 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.
[1] For down-flow air volume, add 0.10 in. w.g. (25 Pa) to duct static.

10GCS048 AND 10GCS060 BLOWER PERFORMANCE
[1] 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	2360	1115	2140	1010	1820	860
.30	75	2290	1080	2090	985	1800	850
.40	100	2190	1035	2020	955	1780	840
.50	125	2110	995	1920	905	1750	825
.60	150	2010	950	1850	875	1680	795
.70	175	1920	905	1780	840	1610	760
.80	200	1820	860	1710	805	1470	695

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

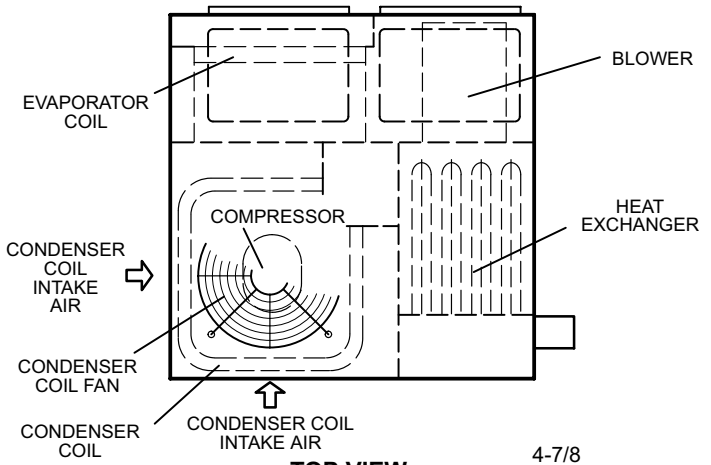
DIMENSIONS - INCHES (MM)

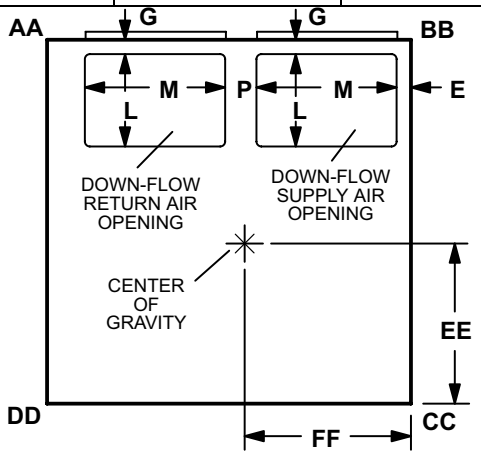
CORNER WEIGHTS

Model Number	AA		BB		CC		DD	
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg
10GCS024	75	34	67	30	68	31	91	41
10GCS030	77	35	69	31	70	32	95	43
10GCS036	84	38	76	34	77	35	103	47
10GCS042	92	42	83	38	83	38	112	51
10GCS048	112	51	101	46	101	46	136	62
10GCS060	116	53	106	48	106	48	142	64

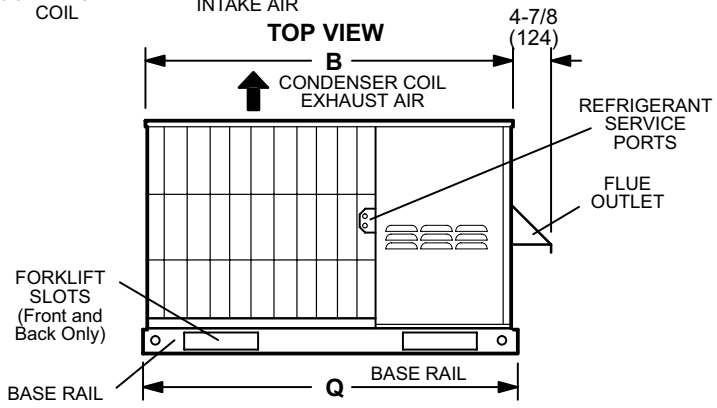
CENTER OF GRAVITY

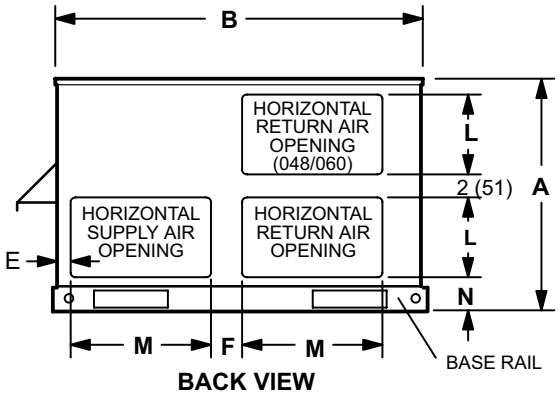
Model Number	EE		FF	
	inch	mm	inch	mm
10GCS024	21-1/2	546	25	635
10GCS030	21-1/2	546	25	635
10GCS036	21-1/2	546	25	635
10GCS042	21-1/2	546	25	635
10GCS048	23-3/8	594	30-1/8	511
10GCS060	23-3/8	594	30-1/8	511



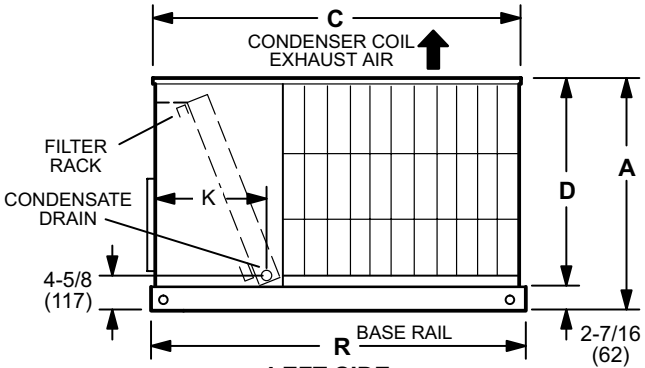


TOP VIEW BASE SECTION

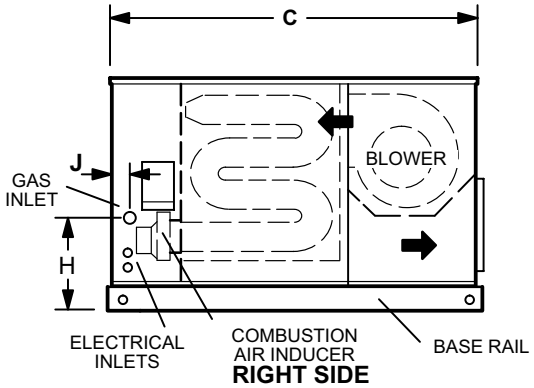




FRONT VIEW



BACK VIEW



LEFT SIDE

RIGHT SIDE

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
10GCS024, 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
10GCS042	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
10GCS048, 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
10GCS024, 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
10GCS042	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
10GCS048, 60	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