

LENNOX[®]

ENGINEERING DATA

PACKAGED GAS

ELITE 12™ PACKAGED GAS UNITS

*23,000 to 58,000 Btuh (6.7 to 17.0 kW) Cooling Capacity
50,000 to 125,000 Btuh (14.7 to 36.6 kW) Input Heating Capacity

*ARI Certified Ratings

GCS26

(2 To 5 Ton)

(7.0 To 17.6 kW)

Bulletin No. 210110

October 1997

Supersedes November 1996



Copeland[®]
Compliant Scroll[™]
Compressor



FEATURES

Applications

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

Approvals

- Units are design certified and ratings certified by E.T.L. and E.T.L. 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 210/240-94.
- Units are listed by E.T.L. for U.S. and Canada.
- Packaged unit and components within bonded for grounding to meet safety standards required by E.T.L.
- Developed in accordance with ISO 9001 quality standards.
- Each unit test operated at the factory before shipment ensuring dependable operation at start-up.

Equipment Warranty

- Heat Exchanger -- 15 years.
- Compressor -- 10 years.
- Parts -- 5 year on all covered components.
- Refer to limited warranty certificate included with unit for specific details.

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.

Induced Draft Blower

- Heavy duty induced draft blower 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.
- Induced draft blower operates only during heating cycle.

Heating Control

- Solid-state integrated blower control / ignition control board with L.E.D. diagnostics.

Limit Controls

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

Refrigeration System

- External service gauge ports.

Copeland[®] Compliant Scroll[™] Compressor

- Features high efficiency with uniform suction flow, constant discharge flow and high volumetric efficiency and quiet operation.
- Compressor motor is internally protected from excessive current and temperature.
- Installed in the unit on resilient rubber mounts for vibration free operation.
- 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).

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.

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)

Thermostat (Optional)

- Not furnished must be ordered extra.

Accessories (Optional)

- Timed-Off Control (5 minutes)
- Low Ambient Kit
- LPG/Propane Conversion Kit
- High Pressure Switch Kit (Auto-Reset)

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.

SPECIFICATIONS

Model No.		GCS26-024-50 GCS26X-024-50	GCS26-24-75 GCS26X-024-75	GCS26-030-75 GCS26X-030-75	GCS26-036-50 GCS26X-036-50	GCS26-036-75 GCS26X-036-75	GCS26-036-100 GCS26X-036-100
Heating capacity input– Btuh (kW)		50,000 (14.7)	75,000 (22.0)	75,000 (22.0)	50,000 (14.7)	75,000 (22.0)	100,000 (29.3)
Heating capacity output– Btuh (kW)		40,000 (11.7)	60,000 (17.6)	60,000 (17.6)	40,000 (11.7)	60,000 (17.6)	80,000 (23.4)
☐ A.F.U.E.		80.0%					
Temperature Rise – °F (°C)		30–60 (17–33)	45–75 (25–42)		30–60 (17–33)	45–75 (25–42)	40–70 (22–39)
Gas Supply Connections fpt – in. (mm)		1/2 (13)					
Recommended Gas Supply Pressure – in. w.g. (Pa)		7 (1.7) Natural Gas, 11 (2.7) LPG/Propane					
☑ ARI Standard 210/240 Ratings	Total cooling capacity – Btuh (kW)	23,000 (6.7)		29,000 (8.5)	35,600 (10.4)		
	Total unit watts	2145		2775	3330		
	SEER (Btuh/Watt)	12.00					
	EER (Btuh/Watt)	10.73		10.45	10.70		
Sound Rating Number (db)		76			80		
Refrigerant Charge (HCFC–22)		4 lbs 12 oz. (2.24 kg)		5 lbs. 5 oz. (2.51 kg)	6 lbs. 14 oz. (3.24 kg)		
Evaporator Blower	Blower wheel size dia. x width in. (mm)	10 x 8 (254 x 203)					
	Motor horsepower (W)	1/2 (373)					
Evaporator Coil	Net face area – sq. ft. (m ²)	3.6 (0.33)					
	Tube diameter – in. (mm) & No. of rows	5/16 (7.9) – 3			3/8 (9.5) – 3		
	Fins per inch (m)	14 (551)					
Condenser Coil	Net face area – sq. ft. (m ²)	10.3 (0.96)			12.33 (1.15)		
	Tube diameter – in. (mm) & No. of rows	5/16 (7.9) – 2					
	Fins per inch (m)	18 (709)					
Condenser Coil Fan	Diameter – in. (mm) & No. of blades	18 (457) – 3		18 (457) – 4			
	Air Volume – cfm (L/s)	2000 (945)		2200 (1040)			
	Motor horsepower (W)	1/8 (93)		1/4 (187)			
	Motor watts	170		250			
Condensate drain size fpt – in. (mm)		(1) 3/4 (19)					
☑ No. & 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)	300 (142)	350 (165)	320 (151)	330 (156)
Shipping wt. basic unit – lbs. (kg) (1 Pkg)		295 (139)	305 (144)	315 (149)	365 (172)	335 (158)	345 (163)
Electrical characteristics		208/230v–1ph–60hz					
Optional Accessories – Must Be Ordered Extra							
LPG/Propane Kit		42K91					
Low Ambient Control Kit		42K88					
Timed-Off Control		42K90					
High Pressure Switch		42K89					

☐ Annual Fuel Utilization Efficiency based on U.S. DOE test procedures and FTC labeling regulations.

☑ 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.

☑ Filters are not furnished and must be field provided.

SPECIFICATIONS

Model No.		GCS26-042-75 GCS26X-042-75	GCS26-042-100 GCS26X-042-100	GCS26-048-100 GCS26X-048-100	GCS26-048-125 GCS26X-048-125	GCS26-060-100 GCS26X-060-100	GCS26-060-125 GCS26X-060-125
Heating capacity input- Btuh (kW)		75,000 (22.0)	100,000 (29.3)	100,000 (29.3)	125,000 (36.6)	100,000 (29.3)	125,000 (36.6)
Heating capacity output- Btuh (kW)		60,000 (17.6)	80,000 (23.4)	80,000 (23.4)	100,000 (29.3)	80,000 (23.4)	100,000 (29.3)
A.F.U.E.		80.0%					
Temperature Rise - °F (°C)		45-75 (14-30)	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)					
Recommended Gas Supply Pressure - in. w.g. (Pa)		7 (1.7) Natural Gas, 11 (2.7) LPG/Propane					
ARI Standard 210/240 Ratings	Total cooling capacity - Btuh (kW)	41,500 (12.2)		48,000 (14.1)		58,000 (17.0)	
	Total unit watts	3925		4530		5420	
	SEER (Btuh/Watt)	12.00					
	EER (Btuh/Watt)	10.57		10.60		10.70	
Sound Rating Number (db)		80		80		80	
Refrigerant Charge (HCFC-22)		8 lbs 5 oz. (3.8 kg)		10 lbs 12 oz. (5.07 kg)		9 lbs. 15 oz. (4.69 kg)	
Evaporator Blower	Blower wheel size dia. x width in. (mm)	10 x 9 (254 x 229)		10 x 10 (254 x 254)			
	Motor horsepower (W)	1/2 (373)		3/4 (560)			
Evaporator Coil	Net face area - sq. ft. (m ²)	4.2 (0.39)		6.1 (0.57)			
	Tube diameter - in. (mm) & No. of rows	3/8 (9.5) - 3					
	Fins per inch (m)	14 (551)		15 (591)			
Condenser Coil	Net face area - sq. ft. (m ²)	14.39 (1.34)		17.5 (1.63)			
	Tube diameter - in. (mm) & No. of rows	3/8 (9.5) - 1					
	Fins per inch (m)	18 (709)				21 (827)	
Condenser Coil Fan	Diameter - in. (mm) & No. of blades	18 (457) - 4		20 (508) - 4			
	Air Volume - cfm (L/s)	2200 (1040)		2800 (1320)			
	Motor horsepower (W)	1/4 (187)					
	Motor watts	250		325		330	
Condensate drain size fpt - in. (mm)		(1) 3/4 (19)					
No. & size of filters - in. (mm)		(1) 28 x 25 x 1 (711 x 635 x 25)		(1) 30 x 30 x 1 (762 x 762 x 25)			
Net weight of basic unit - lbs. (kg)		350 (165)	360 (170)	420 (198)	430 (230)	430 (230)	440 (207)
Shipping wt. of basic unit - lbs. (kg) (1 Pkg)		365 (172)	375 (177)	435 (205)	445 (210)	445 (210)	455 (215)
Electrical characteristics		208/230v-1ph-60hz					
Optional Accessories - Must Be Ordered Extra							
LPG/Propane Kit		42K91					
Low Ambient Control Kit		42K88					
Timed-Off Control		42K90					
High Pressure Switch		42K89					

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.

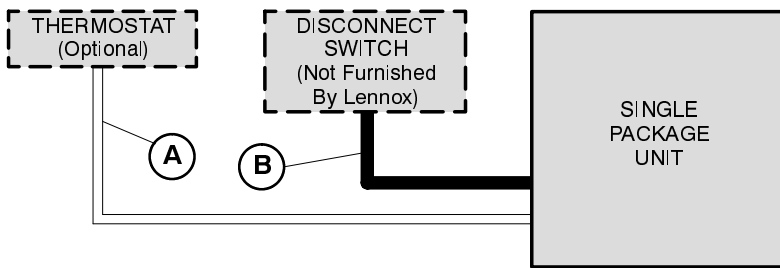
③ Filters are not furnished and must be field provided.

ELECTRICAL DATA

Model No.		GCS26-024	GCS26-030	GCS26-036	GCS26-042	GCS26-048	GCS26-060	
Line voltage data – 60hz 1 phase		208/230v						
Compressor	Rated load amps	10.4	13.6	16.2	18.2	24	25.6	
	Locked rotor amps	56	72.5	88	104	129	170	
Condenser Coil Fan Motor	Full load amps	0.9						
	Locked rotor amps	1.7						
Evaporator Coil Blower Motor	Full load amps	2.8			3.4		3.6	
	Locked rotor amps	5.5			8.3		10.0	
☑ Recommended maximum fuse size or circuit breaker size (amps)		25	30	35	40	50		
☐ Minimum Circuit Ampacity		16.7	21.6	24.9	28.0	35.4	37.4	
Unit power factor		.97	.96	.98	.95	.98		

☐ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.
 ☑ NOTE -- Where current does not exceed 100 amps, HACR type circuit breaker may be used in place of fuse (U.S. only).
 NOTE – Extremes of operating range are plus and minus 10% of line voltage.

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 --

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

RATINGS

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

GCS26-024 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)				
				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)	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.

GCS26-030 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)				
				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)	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.

RATINGS

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

GCS26-036 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)		
						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	kW	Btuh	75°F 24°C	80°F 27°C	85°F 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.

GCS26-042 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)		
						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	kW	Btuh	75°F 24°C	80°F 27°C	85°F 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
71°F (21.7°C)	590	1250	13.6	46,300	2835	.49	.53	.68	12.7	43,500	3010	.51	.55	.70	11.6	39,600	3530	.53	.58	.74	11.1	37,800	4000	.53	.58	.74
	660	1400	13.8	47,200	2855	.50	.54	.69	13.0	44,400	3030	.51	.56	.71	11.8	40,400	3555	.54	.59	.75	11.3	38,600	4030	.54	.59	.75
	730	1550	14.1	48,000	2880	.55	.58	.72	13.2	45,100	3060	.56	.60	.74	12.0	41,100	3590	.59	.63	.78	11.5	39,200	4070	.59	.63	.78

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

GCS26-048 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	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.

GCS26-060 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	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				

BLOWER DATA

GCS26-024 BLOWER PERFORMANCE

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

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

GCS26-042 BLOWER PERFORMANCE

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

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

GCS26-030-036 BLOWER PERFORMANCE

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

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

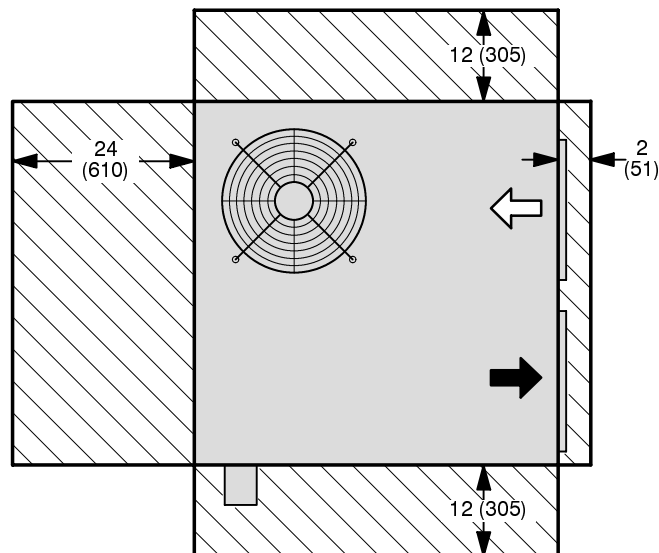
GCS26-048-060 BLOWER PERFORMANCE

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

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

INSTALLATION CLEARANCES - inches (mm)



NOTE — Top Clearance Unobstructed.

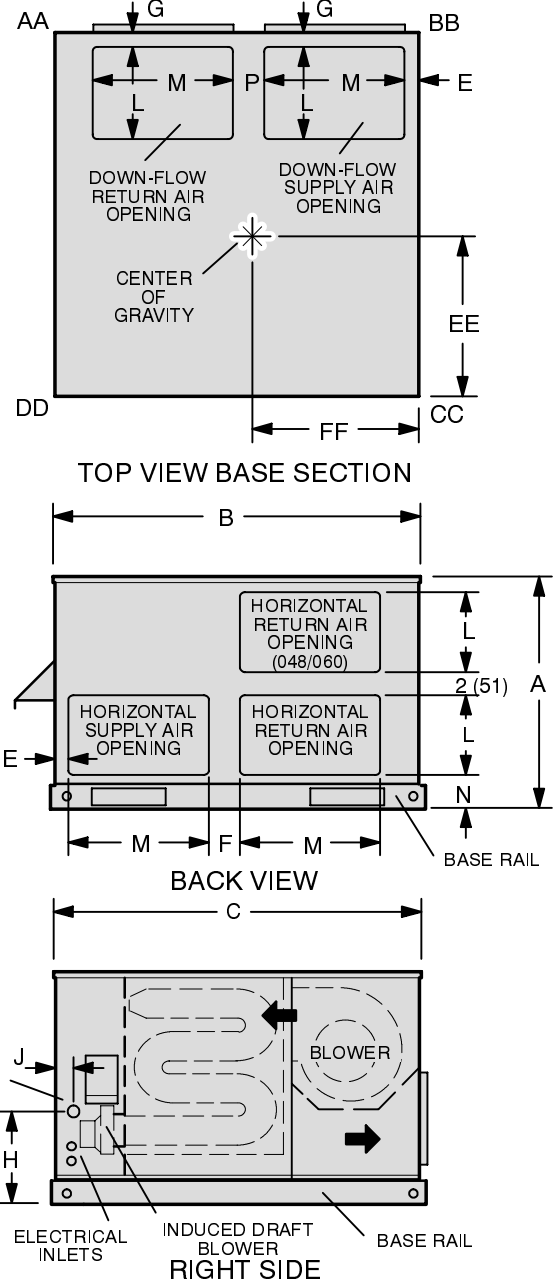
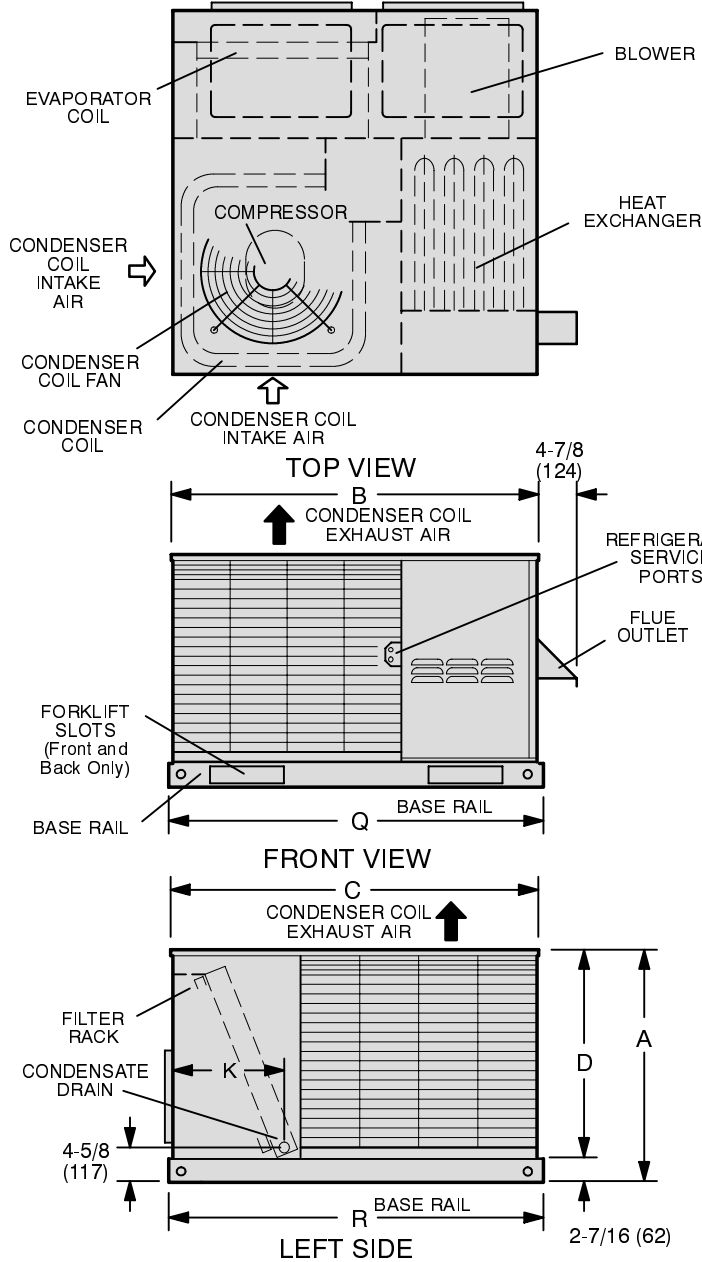
DIMENSIONS - inches (mm)

CORNER WEIGHTS — lbs. (kg)

Model Number	AA		BB		CC		DD	
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg
GCS26-024	80	36	69	31	73	33	99	45
GCS26-030	82	37	71	32	75	34	103	47
GCS26-036	89	40	78	35	82	37	111	50
GCS26-042	97	44	89	40	88	40	130	59
GCS26-048,-060	117	53	103	47	106	48	144	65

CENTER OF GRAVITY — inches (mm)

Model Number	EE		FF	
	inch	mm	inch	mm
GCS26-024	21	533	25-1/2	648
GCS26-030	21	533	25-1/2	648
GCS26-036	21	533	25-1/2	648
GCS26-042	21	533	25-1/2	648
GCS26-048,-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
GCS26-024, 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
GCS26-042	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
GCS26-048, 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
GCS26-024, 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
GCS26-042	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
GCS26-048, 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