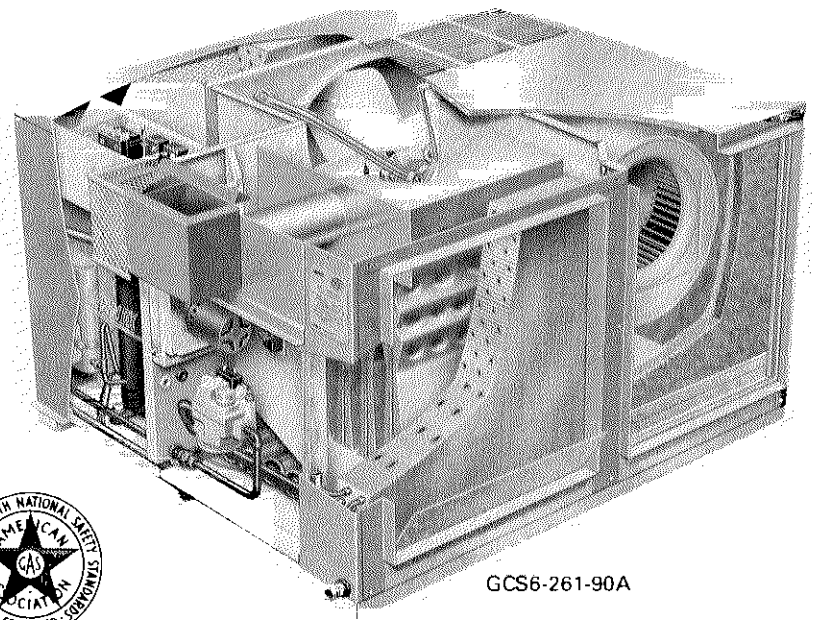
LENNOX®

ALL SEASON—DX COOLING & GAS HEATING
GCS6 SERIES—HORIZONTAL
*18,000 to 58,000 Btuh Total Cooling Capacity
45,000 to 150,000 Btuh Input Heating Capacity

*ARI Certified Ratings

- Factory Assembled
- Several Sizes Available
- Dependable, Quiet Operation
- Low Profile
- Durable Attractive Cabinet
- Complete Service Access
- Easy Duct Connection
- Efficient Air Handling
- Cleanable Air Filters
- Large Size Coils
- Full Refrigerant Charge
- Rugged Compressor
- Aluminized Steel Heat Exchanger
- Aluminized Steel Burners
- Complete Safety Controls

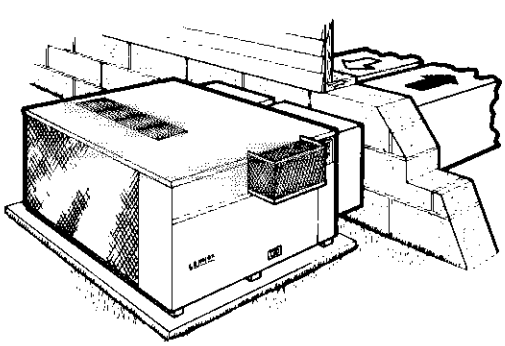


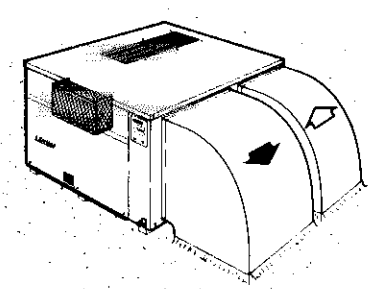
GCS6-261-90A

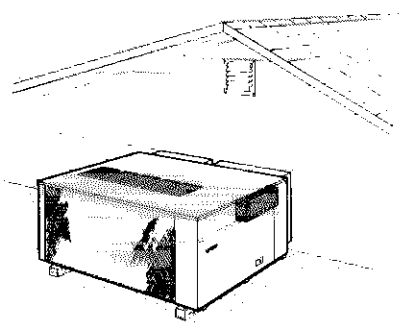
Efficient Combination Heating-Cooling Units Provide Low Cost, Space Saving Outdoor Installations

Lennox single package GCS6 series combination gas fired heating and DX cooling units are designed for residential or small commercial installations. Several models are available with a wide and varied heating-cooling capacity range. Units can be installed with duct work extended through a wall in a crawl space, basement, utility room or attic. Installation on a slab at grade level or on a roof will save valuable interior floor space. The compact single package outdoor unit contains all refrigerant components (evaporator and condensing units), gas fired heating components, air movers and air filters in one complete package. Supply and return air openings are side by side at the same end of the cabinet. Condenser air outlet is through louvered top and side panel. Powerful direct drive fan(s) draws air through the entire condenser coil quietly and efficiently. Compressor and controls are isolated in a separate compartment. Multispeed direct drive blower provides quiet circulation of heating and cooling air. Extra large evaporator and condenser coils ensure maximum air contact and heat transfer. Heavy gauge galvanized steel cabinet has a durable baked-on outdoor enamel finish for long lasting protection. Rugged aluminized steel heat exchanger assures top heating efficiency and long service life. Silent operating gas controls provide 100% safety shut-off. A heating-cooling thermostat is furnished. Equipment is shipped completely factory assembled, wired and piped ready to install. In addition, each unit is test operated at the factory before shipment.

Typical Applications







NOTE—Specifications, Ratings and Dimensions subject to change without notice.

FEATURES

Durable Heat Exchanger — Lennox designed clamshell type heat exchanger is constructed of aluminized steel for maximum service life. Edge weld construction permits normal expansion and contraction without metal fatigue. Heat exchanger design provides excellent combustion, proper venting, cleanability and low resistance to air flow. Life cycle testing insures long service life. Combination flue outlet and combustion air inlet box is coated with DURAGLASS® II for the utmost protection against corrosion. Mounting holes are furnished in the cabinet for easy field installation of the box.

Aluminized Steel Burners — Each burner has two rows of practically continuous aluminized steel rolled ports which result in quiet and clean combustion. A crossover igniter, perpendicular to the main burner, carries a positive flame from burner to burner to achieve fast, sure and safe ignition. Burners are mounted in a slide-out burner tray for complete removal from the unit for service. Each burner is easily removed and replaced individually in the tray.

Automatic Gas Controls — Silent operating gas controls provide 100% safety shut off. 24V gas control valve combines a manual main valve, bleed gas filtration, automatic electric valve and gas pressure regulation into a compact combination control. Solid-state electric direct spark ignition system provides sure and safe main burner ignition. Spark establishes main burner flame, then ceases sparking and monitors the burner flame for the entire cycle. Direct spark ignition cuts fuel consumption while giving positive burner flame and provides protection against flame-out and momentary interruption of electric power supply. Interlock safety switch prevents gas control operation when cabinet access panel is removed for servicing. Panel replacement activates switch and allows normal operation.

GCS6-650-150 Two Stage Heating — Two stage heating operation is available on GCS6-651 & 653-150/75A models. See Specification table. A combination two stage heating and single stage cooling thermostat is furnished.

Combustion Air Blower — Forced draft combustion blower exhausts combustion products in a constant updraft. Flue is not affected by wind direction and velocity. Equipped with air switch that proves blower operation before allowing automatic main gas valve to open. Motor is resiliently mounted.

Fan and Limit Controls — Factory installed and accurately located. Fan control is temperature actuated to control blower operation and has adjustable blower off temperature setting. Dual limit controls are located at front and rear of heat section for maximum protection from abnormal operating conditions. Limits have fixed temperature setting.

Rugged Cabinet — Heavy gauge galvanized steel cabinet is subject to a five station metal wash process. This preparation results in a perfect bonding surface for the finish coat of baked-on outdoor enamel. Evaporator and heat sections are lined with thick fiberglass insulation. Removable panels permit complete service access to cabinet interior. Heavy gauge steel support rails under base elevates unit above mounting surface. Drainage holes are provided in condenser coil section of the base. Evaporator coil drain pan is constructed of heavy gauge galvanized steel and has a galvanized pipe (mpt) drain outlet. Non-corrosive aluminum condenser coil grille guard is furnished. Grille protects coil from damage and permits quiet discharge of air with minimum resistance. Electrical and gas piping inlets are furnished in the cabinet. Supply and return air openings are located side by side and have flanges for ease of duct connection.

Compressor and Controls Compartment — Compressor and control box are located in a separate compartment of the cabinet, isolating them from the weather and also keeping the sound level at a minimum. Control box is conveniently located for service access with all controls factory installed and wired. Cabinet access panel removal permits complete access to the compartment.

Refrigeration System — Complete factory sealed refrigeration system consists of: compressor, condenser coil and fan(s), evaporator coil and blower, suction and discharge line service gauge ports, liquid line strainer, low pressure switch (GCS6-460-510 & 650 models), refrigerant lines connected and a full operating charge.

Dependable and Quiet Compressor — Rugged and reliable compressor is hermetically sealed. Suction cooled, overload protected, and equipped with internal pressure relief valve. Internally protected from excessive current and temperature. The entire running gear is spring mounted within the sealed can. In addition, the compressor is installed on resilient rubber mounts in the unit, assuring quiet and vibration free opeation.

Large Evaporator and Condenser Coils — Lennox designed and fabricated coils are constructed of precisely spaced ripple-edge aluminum fins machine fitted to copper tubes for maximum strength and heat transfer. Each joint is silver soldered resulting in leak proof construction. Coils are pressure leak tested at 450-500 psi.

Efficient Condenser Fan(s) — Direct drive fan(s) draws large air volumes uniformly through the entire coil resulting in high refrigerant cooling capacity. GCS6-211 thru 460 models are equipped with a single fan. GCS6-510 and 650 models employ dual fans. Air enters unit through the coil and is discharged out the louvered top and side panel.

Powerful Supply Air Blower — Units are equipped with quiet operating direct drive blowers that deliver large air volumes with low power consumption. Each blower is statically and dynamically balanced as an assembly before it is installed in the unit. Multispeed motor is isolated on rubber mounts. A choice of blower speeds is available on each blower. See blower performance charts. Change in blower speed is easily accomplished by a simple change in wiring.

Cleanable Air Filter(s) — One inch frame filters are furnished as standard equipment. Media is washable or vacuum cleanable polyurethane, oil coated for increased efficiency. Use RP products filter coating no. 418 (P-8-5069) when reoiling is required after cleaning.

Heating-Cooling Thermostat — A deluxe wall mounted combination single stage heating and single stage cooling thermostat is furnished as standard equipment. It has a temperature setting dial, system selector switch (heat-cool-off) and fan control switch (auto-on). Fan switch gives intermittent or continuous blower operation during heating or cooling cycle.

Timed-Off Control (Optional) — Available as optional equipment, order no. P-8-10238. Prevents compressor short-cycling and also allows time for suction and discharge pressure to equalize, permitting the compressor to start in an unloaded condition. Automatic reset control will shut the compressor off and hold it off for 5 minutes.

Low Ambient Control (Optional) — Units will operate satisfactorily down to 50°-55°F outdoor air temperature without any additional controls. For cases where operation below 50°-55°F is required a Low Ambient Control Kit (order no. BM-3434) can be added in the field, enabling the unit to operate properly down to 0°F.

Crankcase Heater (Optional) — Compressor crankcase heater is available as optional equipment. Order no. P-8-8852. Heater ensures proper lubrication of the compressor at all times.

Start Kits (Optional) — Available as optional equipment for field installation on the GCS6-211 thru 461 single phase units. Provides assistance for compressor start under loaded conditions or in the event of low voltage. Specify complete unit model number when ordering.

Thoroughly Tested and Approved — The design of the unit is A.G.A. Certified as a combination heating-cooling unit for outdoor installation. Complies with ANSI safety codes. Cooling system has been thoroughly tested and rated in the Lennox Laboratory environmental test room according to ARI Standard 210 test conditions. In addition, units have been sound tested in the Lennox reverberant sound test room and rated according to ARI Standard 270 conditions. Units coming within the scope of this standard (135,000 Btuh or less) carry the ARI certification seal and are Certified under the ARI Certification Program. Units and components within are bonded for grounding to meet safety standards for servicing required by U.L. and NEC. Blower data is according to actual unit tests conducted in the Lennox air test chamber. Laboratory life cycle testing of the heat exchanger proves long life of the heating element.

SPECIFICATIONS

Model No.		GCS6-211-45A	GCS6-261-45A	GCS6-261-90A	GCS6-311-75A	GCS6-411-75A GCS6-413-75A	GCS6-411-120A GCS6-413-120A
Heating Capacity	Btuh Input	45,000	45,000	90,000	75,000	75,000	120,000
	Btuh Output	33,750	33,750	67,500	56,250	56,250	90,000
*Cooling Capacity ARI Certified	Total capacity Btuh	†18,000	24,000	24,000	††30,000	††36,000	††36,000
	Total Unit watts	†2700	3900	3600	4500	5800	5800
	Dehumidifying capacity	26%	26%	26%	24%	25%	25%
Refrigerant (R 22) charge		2 lbs. 5 oz.	3 lbs. 2 oz.	3 lbs. 2 oz.	3 lbs. 5 oz.	3 lbs. 4 oz.	3 lbs. 4 oz.
Blower wheel nominal diam. x width (in.)		9 x 7	9 x 7	9 x 9	10 x 9	10 x 9	10 x 10
Blower motor horsepower		1/5	1/5	1/4	1/3	1/3	1/2
Evaporator Coil	Net face area (sq. ft.)	3.30	3.30	3.30	3.30	3.33	3.33
	Tube diam. (in.) & no. of rows	3/8–2	3/8–2	3/8 2	3/8 3	3/8–3	3/8–3
	Fins per inch	16	16	16	16	15	15
Condenser Coil	Net face area (sq. ft.)	6.25	6.25	6.25	6.25	6.25	6.25
	Tube diam. (in.) & no. of rows	3/8 1	3/8 2	3/8 2	3/8–2	3/8 2	3/8 2
	Fins per inch	18	14	14	14	18	18
Condenser Fan	Diameter (in.) and no. of blades	(1) 18–4	(1) 18 5	(1) 18–5	(1) 20–4	(1) 20 4	(1) 20 4
	Air volume (factory setting)	1970	2350	2350	2975	2875	2875
	Rpm (factory setting)	1115	1075	1075	1080	1060	1060
	Motor horsepower	1/6	1/4	1/4	1/3	1/3	1/3
	Motor watts (factory setting)	275	375	375	550	540	540
No. & size of filters (in.)		(1) 20 x 20 x 1	(1) 20 x 20 x 1	(1) 20 x 20 x 1	(1) 20 x 20 x 1	(1) 20 x 20 x 1	(1) 20 x 20 x 1
Gas supply connection mpt (in.) Natural		1/2	1/2	1/2	1/2	1/2	1/2
Recommended gas supply pressure WC (in.)	Natural	7	7	7	7	7	7
Condensate drain size mpt (in.)		3/4	3/4	3/4	3/4	3/4	3/4
Net weight (lbs.) (1 Pkg.)		380	400	420	420	430	470

*Rated in accordance with ARI Standard 210; 450 cfm evaporator air volume per ton of cooling capacity, 95F outdoor air temperature and 80db/67wb entering evaporator air.

†Derate Capacity by 500 Btuh and reduce watts by 100 for 208 volt operation.

††Derate Capacity by 1000 Btuh for 208 volt operation.

SPECIFICATIONS

Model No.		GCS6-461-100A GCS6-463-100A	GCS6-511-100A GCS6-513-100A	GCS6-511-150A GCS6-513-150A	GCS6-651-150A GCS6-653-150A	GCS6-651-150/75A GCS6-653-150/75A
Single Stage Heating Capacity	Btuh Input	100,000	100,000	150,000	150,000	----
	Btuh Output	75,000	75,000	112,500	112,500	----
Two Stage Heating Capacity Natural	Btuh Input (low stage)	----	----	----	----	75,000
	Btuh Input (high stage)	----	----	----	----	150,000
	Btuh Output (high stage)	----	----	----	----	112,500
*Cooling Capacity ARI Certified	Total capacity Btuh	42,000	†48,000		†58,000	
	Total Unit watts	5900	††7500		9200	
	Dehumidifying capacity	25%	24%		24%	
Refrigerant (R-22) charge		4 lbs. 6 oz.	4 lbs. 11 oz.		6 lbs. 2 oz.	
Blower wheel nominal diam. x width (in.)		10 x 10	12 x 12		12 x 12	
Blower motor horsepower		1/2	3/4		3/4	
Evaporator Coil	Net face area (sq. ft.)	3.30	5.0		5.0	
	Tube diam. (in.) & no. of rows	3/8 4	3/8 3		3/8 3	
	Fins per inch	15	15		15	
Condenser Coil	Net face area (sq. ft.)	6.25	7.64		7.64	
	Tube diam. (in.) & no. of rows	3/8 3	3/8–2		3/8–3	
	Fins per inch	15	18		18	
Condenser Fan	Diameter (in.) and no. of blades	(1) 20–4	(2) 18–5		(2) 18 5	
	Air volume (factory setting)	2875	2950		2850	
	Rpm (factory setting)	1060	1080		1080	
	Motor horsepower	1/3	1/4		1/4	
	Motor watts (factory setting)	540	610		600	
No. & size of filters (in.)		(1) 20 x 20 x 1	(2) 16 x 20 x 1		(2) 16 x 20 x 1	
Gas supply connection mpt (in.) Natural		1/2	1/2		1/2	
Recommended gas supply pressure WC (in.)	Natural	7	7		7	
Condensate drain size mpt (in.)		3/4	3/4		3/4	
Net weight (lbs.) (1 Pkg.)		520	630	645	670	

*Rated in accordance with ARI Standard 210; 450 cfm evaporator air volume per ton of cooling capacity, 95F outdoor air temperature and 80db/67wb entering evaporator air.

†Derate Capacity by 1000 Btuh for 208 volt operation.

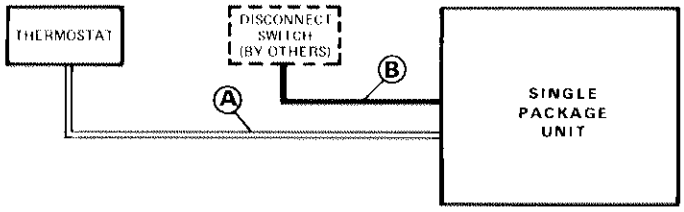
††Add 100 watts for 208 volt operation.

HIGH ALTITUDE DERATE

If the heating value of the gas does not exceed values listed in the table, derating of the unit is not required. Should the heating value of the gas exceed the table values, or if the elevation is greater than 6,000 feet above sea level it will be necessary to derate the unit. Lennox requires that derate conditions be 4% per thousand feet above sea level. Thus at an altitude of 4000 feet, if the heating value of the gas exceeds 1000 Btu/ft^3, the unit will require a 16% derate.

Elevation Above Sea Level (Feet)	Maximum Heating Value (Btu/ft^3)
5001–6000	900
4001–5000	950
3001–4000	1000
2001–3000	1050
Sea Level–2000	1100

FIELD WIRING



A - Four wire low voltage (Single Stage Cool and Single Stage Heat)
Five wire low voltage (Single Stage Cool and Two Stage Heat)

B Two or three wire power (See electrical data table)

All wiring must conform to NEC and local codes.
If electrical codes permit may be class 2 wiring.

ELECTRICAL DATA

Model No.		GCS6-211 -45	GCS6-261 -45	GCS6-261 -90	GCS6-311 -75	GCS6-411 -75	GCS6-413 -75	GCS6-411 -120	GCS6-413 -120
Line voltage data		208/230v 60hz 1ph	208/230v 60hz 1ph	208/230v 60hz 1ph	208/230v 60hz 1ph	208/230v 60hz 1ph	208/240v 60hz 3ph	208/230v 60hz 1ph	208/240v 60hz 3ph
Compressor	Full load amps	11.1	14.9	14.9	17.5	23.5	13.8	23.5	13.8
	Power factor	.92	.92	.92	.92	.92	.85	.92	.85
	Locked rotor amps	53.0	74.0	74.0	85.0	111.0	77.0	111.0	77.0
Condenser Coil Fan	Full load amps	1.4	2.6	2.6	3.0	3.0	3.0	3.0	3.0
	Locked rotor amps	2.9	5.4	5.4	6.3	6.3	6.3	6.3	6.3
Evaporator Coil Blower	Full load amps	4.5	4.5	2.2	2.3	2.3	2.3	3.9	3.9
	Locked rotor amps	6.6	6.6	5.2	5.4	5.4	5.4	9.5	9.5
*Minimum circuit ampacity		19.8	25.7	23.4	27.2	34.7	22.6	36.3	24.2

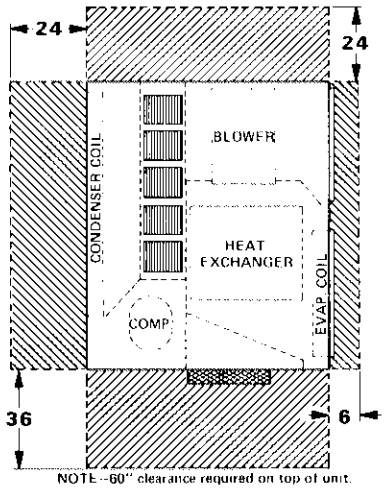
*Refer to National Electrical Code manual to determine wire, fuse and disconnect size requirements.
NOTE - Extremes of operating range are plus 10% and minus 5% of line voltage. 208 240v model is plus and minus 10% of line voltage.

Model No.		GCS6-461-100	GCS6-463-100	GCS6-511-100 GCS6-511-150	GCS6-513-100 GCS6-513-150	GCS6-651-150	GCS6-653-150
Line voltage data		208/230v 60hz 1ph	208/240v 60hz 3ph	208/230v 60hz 1ph	208/240v 60hz 3ph	208/230v 60hz 1ph	208/240v 60hz 3ph
Compressor	Full load amps	25.8	14.6	30.5	16.9	38.6	21.4
	Power factor	.92	.85	.92	.85	.92	.85
	Locked rotor amps	115.0	87.0	140.0	104.0	175.0	132.0
Condenser Coil Fan	Full load amps	3.0	3.0	5.2	5.2	5.2	5.2
	Locked rotor amps	6.3	6.3	10.7	10.7	10.7	10.7
Evaporator Coil Blower	Full load amps	3.9	3.9	6.0	6.0	6.0	6.0
	Locked rotor amps	9.5	9.5	14.7	14.7	14.7	14.7
*Minimum circuit ampacity		39.2	25.2	49.3	32.3	59.5	38.0

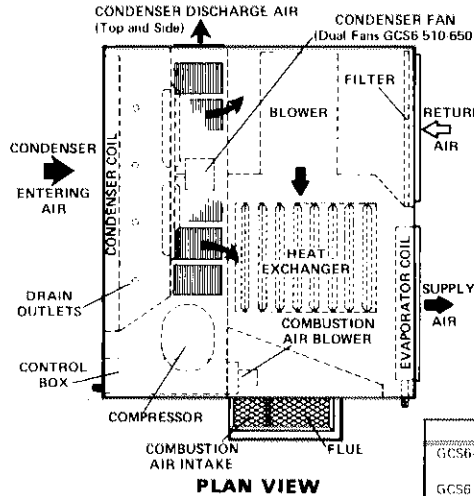
*Refer to National Electrical Code manual to determine wire, fuse and disconnect size requirements.
NOTE–Extremes of operating range are plus 10% and minus 5% of line voltage. 208 240v model is plus and minus 10% of line voltage.

DIMENSIONS (inches)

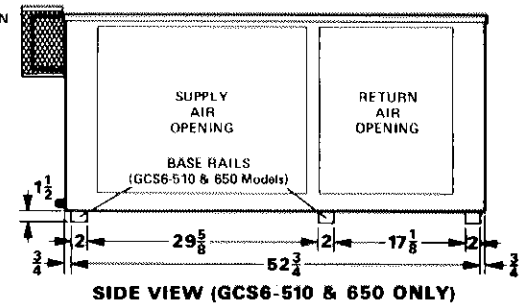
INSTALLATION CLEARANCES



NOTE--60" clearance required on top of unit.

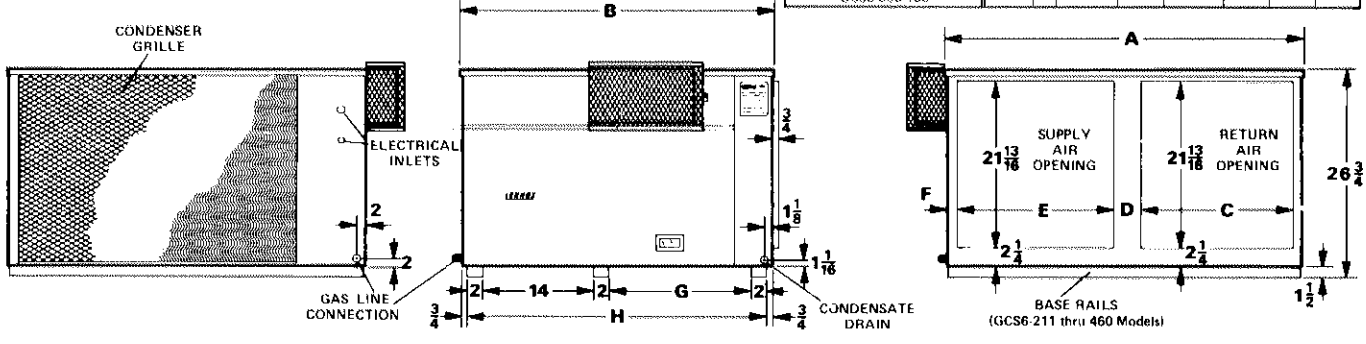


PLAN VIEW



SIDE VIEW (GCS6-510 & 650 ONLY)

Model No.	A	B	C	D	E	F	G	H
GCS6-211-45—GCS6 261 45 GCS6 261 90 GCS6 311 75 GCS6 410 75	45 3/4	40	18 15/16	3 3/16	20 1/16	2 1/4	18 1/2	38 1/2
GCS6 410 120 GCS6 460 100	45 3/4	45	18 15/16	3 3/16	20 1/16	2 1/4	23 1/2	43 1/2
GCS6 510 100 GCS6 510 150 GCS6 650 150	54 1/4	50	16 7/16	1 3/4	27 13/16	4 5/16		



CONDENSER VIEW **FRONT VIEW** **SIDE VIEW**

COOLING RATINGS

Unit Model No.	Evaporator Air 80F Dry Bulb		Outdoor Air Temperature Entering Condenser (F)											
			85			95			105			115		
	Entering Wet Bulb Degrees (f)	Total Air Volume (cfm)	Total Cooling Capacity (Btuh)	Sensible To Total Ratio (S/T)	Comp. Motor Watts Input	Total Cooling Capacity (Btuh)	Sensible To Total Ratio (S/T)	Comp. Motor Watts Input	Total Cooling Capacity (Btuh)	Sensible To Total Ratio (S/T)	Comp. Motor Watts Input	Total Cooling Capacity (Btuh)	Sensible To Total Ratio (S/T)	Comp. Motor Watts Input
GCS6-211	63	600	17,700	.90	1940	16,600	.93	2070	15,500	.96	2210	14,400	.99	2350
		675	18,000	.94	1960	16,900	.97	2090	15,900	1.00	2230	14,800	1.00	2390
		750	18,300	.98	1970	17,300	1.00	2110	16,300	1.00	2260	15,200	1.00	2420
	67	600	18,800	.72	1990	17,600	.74	2130	16,500	.76	2280	15,300	.79	2430
		675	19,100	.75	2000	17,900	.78	2140	16,700	.80	2290	15,500	.83	2450
		750	19,300	.78	2010	18,100	.81	2160	17,000	.84	2310	15,800	.87	2470
	71	600	20,000	.56	2050	18,800	.57	2200	17,600	.59	2360	16,400	.60	2520
		675	20,300	.58	2060	19,000	.59	2220	17,800	.61	2370	16,600	.63	2540
		750	20,500	.60	2070	19,300	.61	2230	18,000	.63	2390	16,800	.65	2550
GCS6-261	63	800	23,200	.86	2800	21,900	.89	2910	20,600	.91	3050	19,400	.94	3240
		900	23,800	.90	2820	22,400	.93	2930	21,100	.95	3080	19,800	.97	3270
		1000	24,100	.94	2830	22,800	.96	2960	21,500	.98	3110	20,200	.99	3310
	67	800	24,400	.69	2860	23,300	.71	3000	21,900	.73	3140	20,500	.75	3330
		900	24,600	.72	2880	23,700	.74	3020	22,300	.76	3160	20,900	.78	3360
		1000	24,900	.75	2900	24,000	.76	3030	22,600	.79	3180	21,100	.81	3380
	71	800	26,500	.53	2930	25,000	.55	3080	23,500	.56	3230	22,000	.57	3440
		900	26,900	.55	2950	25,400	.57	3090	23,900	.58	3250	22,300	.59	3460
		1000	27,200	.57	2960	25,700	.59	3100	24,100	.60	3260	22,600	.61	3470
GCS6-311	63	1000	29,000	.89	3280	27,400	.92	3460	25,700	.95	3660	24,000	.99	3910
		1125	29,500	.94	3310	27,900	.96	3490	26,200	.99	3710	24,600	1.00	3980
		1250	30,000	.98	3340	28,800	.99	3530	26,800	1.00	3760	25,100	1.00	4030
	67	1000	30,500	.71	3360	29,300	.73	3550	27,000	.76	3770	25,200	.78	4040
		1125	32,200	.75	3380	29,700	.77	3570	27,400	.80	3790	25,500	.82	4060
		1250	32,600	.78	3400	30,000	.81	3600	27,700	.84	3820	25,800	.87	4090
	71	1000	33,700	.55	3450	31,100	.56	3660	28,700	.57	3890	26,700	.59	4180
		1125	34,100	.57	3470	31,500	.58	3680	29,000	.60	3920	27,000	.62	4210
		1250	34,400	.59	3480	31,800	.60	3700	29,300	.62	3940	27,300	.65	4230
GCS6-411 GCS6-413	63	1200	35,600	.88	4400	33,700	.90	4600	31,800	.92	4820	29,800	.95	5100
		1350	36,200	.92	4450	34,300	.94	4650	32,400	.96	4880	30,400	.99	5160
		1500	37,000	.96	4490	35,000	.98	4690	33,100	1.00	4920	31,100	1.00	5260
	67	1200	38,000	.70	4550	35,900	.72	4780	33,700	.74	5020	31,400	.76	5300
		1350	38,600	.73	4600	36,400	.75	4810	34,100	.77	5060	31,800	.80	5350
		1500	39,200	.76	4640	36,900	.78	4860	35,600	.80	5110	32,300	.86	5400
	71	1200	40,800	.54	4740	37,400	.55	4980	36,000	.57	5250	33,100	.58	5570
		1350	41,200	.56	4780	37,800	.57	5030	36,600	.59	5300	33,600	.61	5260
		1500	41,800	.58	4800	38,300	.59	5050	37,000	.61	5340	33,900	.63	5660
GCS6-461 GCS6-463	63	1400	42,500	.89	4480	40,300	.92	4680	38,100	.95	4910	35,900	.98	5210
		1575	43,300	.94	4540	41,100	.97	4760	39,000	.99	5020	36,800	1.00	5330
		1750	44,100	.99	4600	42,000	1.00	4840	39,700	1.00	5090	37,400	1.00	5390
	67	1400	44,700	.71	4640	42,300	.73	4870	39,900	.76	5110	37,800	.78	5400
		1575	45,400	.75	4690	42,900	.77	4910	40,400	.80	5160	38,000	.83	5460
		1750	45,900	.79	4730	43,300	.81	4960	40,900	.84	5210	38,400	.87	5520
	71	1400	47,500	.54	4850	44,900	.55	5080	42,300	.57	5350	39,700	.58	5670
		1575	47,900	.56	4890	45,300	.58	5130	42,700	.59	5410	40,100	.61	5740
		1750	48,400	.59	4920	45,800	.60	5160	43,100	.62	5440	40,500	.64	5780
GCS6-511 GCS6-513	63	1600	44,600	.89	5420	42,200	.92	5800	39,000	.96	6150	35,100	1.00	6530
		1800	45,500	.91	5450	43,000	.94	5830	40,100	.98	6200	35,800	1.00	6550
		2000	46,800	.92	5510	44,300	.95	5880	41,100	.99	6250	37,200	1.00	6620
	67	1600	49,800	.73	5590	46,500	.76	5970	43,200	.80	6340	38,800	.84	6690
		1800	50,400	.76	5650	48,000	.78	6030	44,900	.82	6400	40,600	.87	6770
		2000	52,000	.78	5710	49,700	.80	6100	46,500	.84	6480	42,200	.89	6850
	71	1600	53,200	.57	5760	50,500	.58	6130	47,500	.59	6510	43,300	.61	6880
		1800	54,100	.58	5800	51,500	.60	6170	48,500	.62	6550	44,600	.64	6950
		2000	55,100	.60	5840	52,800	.61	6220	49,600	.64	6600	45,700	.66	7000
GCS6-651 GCS6-653	63	2000	58,400	.87	7150	52,600	.93	7355	48,700	.97	7790	44,000	1.00	8280
		2250	60,000	.88	7240	54,300	.95	5445	50,300	.99	7870	45,300	1.00	8360
		2500	61,200	.90	7300	55,400	.98	7495	51,400	1.00	7930	46,700	1.00	8430
	67	2000	63,800	.72	7420	57,800	.76	7615	53,600	.79	8040	48,300	.83	8505
		2250	65,300	.73	7500	59,900	.78	7715	55,400	.81	8130	49,700	.86	8575
		2500	67,400	.74	7610	61,600	.79	7805	57,200	.83	8230	51,300	.88	8665
	71	2000	69,300	.56	7700	63,800	.58	7935	59,600	.59	8350	54,300	.61	8805
		2250	70,200	.57	7760	64,700	.59	7985	60,600	.61	8410	55,300	.63	8865
		2500	71,000	.58	7800	65,700	.60	8035	61,500	.62	8450	56,300	.64	8915

BLOWER DATA

GCS6-211-45 & GCS6-261-45 BLOWER PERFORMANCE

External Static Pressure (in. wg.)	Air Volume (cfm) @ Various Speeds		
	High	Medium	Low
0	1080	965	810
.05	1060	955	810
.10	1040	945	810
.15	1015	925	810
.20	990	910	800
.25	960	890	790
.30	930	865	770
.40	870	815	730
.50	795	750	675
.60	695	660	605

NOTE—All cfm data is measured external to the unit with the air filter in place.

GCS6-261-90 BLOWER PERFORMANCE

External Static Pressure (in. wg.)	Air Volume (cfm) @ Various Speeds		
	High	Medium	Low
0	1265	1020	715
.05	1245	1010	715
.10	1220	1000	715
.15	1195	990	715
.20	1170	980	710
.25	1145	965	705
.30	1120	950	690
.40	1055	905	655
.50	980	845	600
.60	875	760	----

NOTE—All cfm data is measured external to the unit with the air filter in place.

GCS6-311-75 BLOWER PERFORMANCE

External Static Pressure (in. wg.)	Air Volume (cfm) @ Various Speeds			
	High	Med-High	Med-Low	Low
0	1540	1410	1275	1075
.05	1520	1395	1265	1070
.10	1510	1385	1255	1065
.15	1480	1360	1240	1055
.20	1455	1340	1220	1040
.25	1430	1315	1200	1025
.30	1405	1290	1180	1005
.40	1355	1240	1145	955
.50	1295	1175	1090	880
.60	1235	1085	1015	760
.70	1160	----	----	----

NOTE—All cfm data is measured external to the unit with the air filter in place.

GCS6-411-75 and GCS6-413-75 BLOWER PERFORMANCE

External Static Pressure (in. wg.)	Air Volume (cfm) @ Various Speeds			
	High	Med-High	Med-Low	Low
0	1540	1410	1275	1075
.05	1520	1395	1265	1070
.10	1510	1385	1255	1065
.15	1480	1360	1240	1055
.20	1455	1340	1220	1040
.25	1430	1315	1200	1025
.30	1405	1290	1180	1005
.40	1355	1240	1145	955
.50	1295	1175	1090	880
.60	1235	1085	1015	760
.70	1160	----	----	----

NOTE—All cfm data is measured external to the unit with the air filter in place.

GCS6-411-120 & GCS6-413-120 BLOWER PERFORMANCE

External Static Pressure (in. wg.)	Air Volume (cfm) @ Various Speeds		
	High	Medium	Low
0	1745	1520	1275
.05	1710	1495	1260
.10	1675	1470	1245
.15	1645	1445	1230
.20	1610	1425	1215
.25	1575	1400	1200
.30	1540	1370	1180
.40	1475	1320	1135
.50	1395	1250	1075
.60	1305	1160	980
.70	1180	----	----

NOTE—All cfm data is measured external to the unit with the air filter in place.

GCS6-461-100 & GCS6-463-100 BLOWER PERFORMANCE

External Static Pressure (in. wg.)	Air Volume (cfm) @ Various Speeds		
	High	Medium	Low
0	1740	1480	1230
.05	1710	1465	1220
.10	1680	1445	1215
.15	1645	1425	1205
.20	1615	1410	1195
.25	1585	1385	1185
.30	1550	1365	1175
.40	1475	1315	1140
.50	1400	1255	1085
.60	1315	1185	1025
.70	1210	1100	----

NOTE—All cfm data is measured external to the unit with the air filter in place.

GCS6-511-100, GCS6-513-100, GCS6-511-150 GCS6-513-150, GCS6-651-150 & GCS6-653-150 BLOWER PERFORMANCE

External Static Pressure (in. wg.)	Air Volume (cfm) @ Various Speeds				
	High	Med-High	Medium	Med-Low	Low
0	2460	2280	2155	1830	1670
.05	2425	2250	2120	1805	1640
.10	2390	2210	2090	1775	1610
.15	2355	2175	2050	1745	1580
.20	2320	2140	2015	1710	1550
.25	2280	2100	1975	1680	1520
.30	2230	2065	1940	1650	1490
.40	2145	1990	1870	1590	1420
.50	2060	1910	1800	1520	1355
.60	1970	1830	1720	1455	1290
.70	1880	1740	1640	1380	1220

NOTE—All cfm data is measured external to the unit with the air filter in place.