

# LENNOX

## ALL SEASON — DX COOLING & GAS HEATING GCS3-511-513 AND GCS3-651-653 HORIZONTAL AND DOWN-FLO

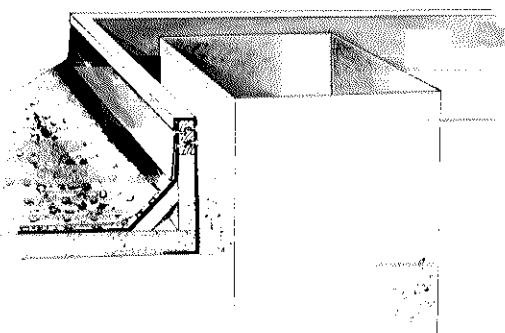
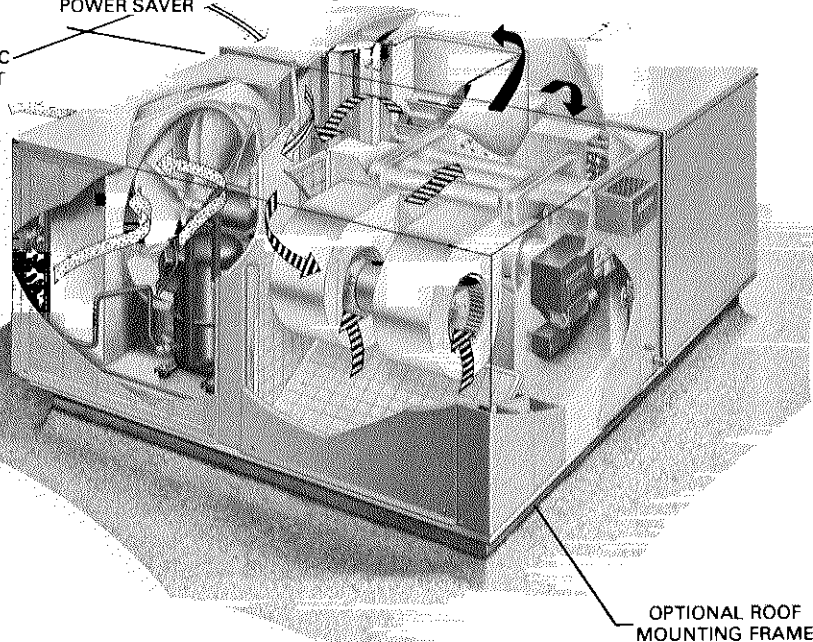
\*51,000 to 62,000 Btuh Total Cooling Capacity  
120,000 to 150,000 Btuh Input Heating Capacity

\*ARI Certified Ratings

ENGINEERING DATA  
COMBINATION  
UNITS  
ROOFTOP  
Page 31  
July 1, 1978  
Supersedes 12-1-76

OPTIONAL  
RD8  
POWER SAVER

BASIC  
UNIT



### Optional Roof Mounting Frame Detail

Weatherproof frame (RMF3-65) is used whenever RT8 duct enclosure or RD8 POWER SAVER is used. The frame extends around the entire perimeter of the GCS3 and RT8 or RD8. Duct connection and entry into the conditioned area are accomplished within the confines of the frame.

**GCS3-650**  
(With optional RD8 POWER SAVER®  
and roof mounting frame)

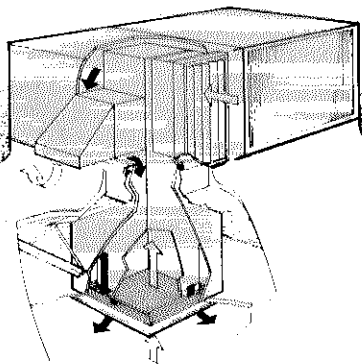
OPTIONAL ROOF  
MOUNTING FRAME

### Versatile All Season Equipment Is Adaptable To Most Any Application

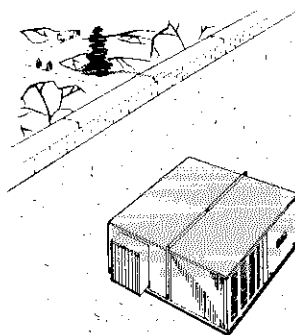
The GCS3 series combination gas fired heating and DX cooling units are designed primarily for rooftop installation with the optional RT8 duct enclosure or RD8 POWER SAVER. The single package unit can also be installed on a slab at grade level with end handling of conditioned air. The single piece optional roof mounting frame (RMF3) gives Lennox a big edge over competition both in appearance and installation. The frame mates to the bottom of the GCS3 and RT8 or RD8 and when flashed into the roof permits weatherproof duct connection and entry into the conditioned area. No additional roof curbing or flashing is required. The assembled GCS3 and RT8 and RD8 duct enclosure are easily hoisted to rooftop level by hoisting lugs factory installed on the equipment. A choice of heating

capacity is available. Laboratory life cycle testing of the aluminized steel DURATUBE® heat exchanger assures maximum service life. Complete factory sealed refrigeration system includes a refrigerant drier and a full operating charge of refrigerant. Controls consist of high and low pressure switches, compressor relay and overload protection. Optional POWER SAVER and controls (RD8) reduce cooling costs. Externally mounted fresh air damper (manual) is available. In addition, a supply and return adapter kit, (RT8) fiberglass duct kit and choice of flush or step-down diffusers are available for a complete combination ceiling supply and return air distribution system. A heating-cooling thermostat is furnished. Equipment is shipped factory assembled, wired, piped and test operated.

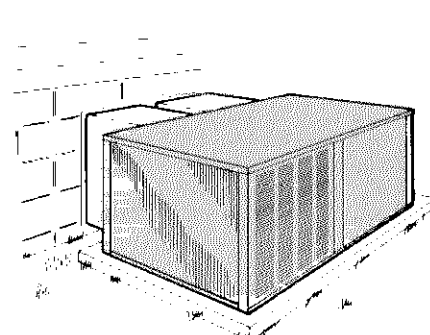
### Typical Applications



Combination ceiling supply and return air application. Step-down or flush diffuser available.



Rooftop installation with optional RD8 POWER SAVER. Use of optional RD8 POWER SAVER or RT8 duct enclosure allows bottom handling of conditioned air.



Basic unit on a slab at grade level with end delivery of conditioned air.

NOTE — Specifications, ratings and dimensions subject to change without notice.

**DURATUBE Heat Exchanger** — Cylindrical tube and drum heat exchanger construction permits normal expansion and contraction without metal fatigue. Design also results in high input to heat surface ratio, low resistance to air travel and cleanability. All heat exchanger surfaces, inside and out, are of aluminized steel. Removable rear breeching provides complete service access.

**Gas Power Burner** — Provides efficient, trouble free operation and is unaffected by adverse wind or atmospheric conditions. Cast iron venturi mixes air and gas in correct proportion for proper combustion. Stainless steel flame spreader fits flame to combustion chamber. Electric direct spark ignition system provides sure and safe main burner ignition. Spark is continuous during burner operation. Burner is equipped with 100% safety shutoff controls, inspection glass for flame viewing, easy combustion air adjustment and is easily removed for service.

**Combustion Air Blower** — Equipped with an air pressure switch which proves blower operation before allowing automatic main gas valve to open. Motor is resiliently mounted.

**Two Stage Heating Optional (Natural Gas Only)** — Furnished as optional for 150,000 Btuh input capacity only. A two stage conversion kit (BM-7041) is available for field conversion of unit for two stage operation. Kit must be ordered extra. Combination two stage heating and single stage cooling thermostat must be ordered extra.

**Dependable Compressor** — Resiliently mounted in unit and the running gear assembly is spring mounted within the sealed housing. It is suction cooled and equipped with suction and discharge pressure test ports. Overload protected and equipped with effective slugging protection.

**Lennox Coils** — Extra large coils (condenser and evaporator) are constructed of ripple-edge aluminum fins machine fitted to copper tubes. Coils are thoroughly tested under pressure to insure leak proof construction.

**Efficient Condenser Fan** — Direct drive fan moves large air volumes through the entire condenser coil resulting in high refrigerant cooling capacity. Air enters unit through louvered panel and is discharged through coil on side of unit.

**Powerful Blowers** — Twin direct drive blowers deliver large air volumes with low power consumption. Multiple speed motor provides a choice of blower speeds. See blower performance charts. Change in blower speed is easily accomplished by a simple change in wiring.

**Rugged Cabinet** — Heavy gauge galvanized hot dipped steel cabinet panels. A five station wash metal preparation assures a perfect bonding surface for the finish coat of baked-on outdoor enamel. Large removable panels give complete service access to interior.

**Thick Interior Insulation** — All of the interior panels where conditioned air is handled are lined with thick fiberglass insulation. In addition the entire bottom of the unit is also lined with thick fiberglass insulation.

**Cleanable Air Filter** — One inch frame filters are furnished as standard. Media is washable or vacuum cleanable polyurethane. Filter is easily accessible for cleaning and media is coated with oil for increased efficiency. Use RP products filter coating No. 418 when reoilng.

**Fan and Limit Controls Furnished** — Factory installed and accurately located. Fan control assures blower operation within forty-five seconds after burner comes on and has adjustable blower off temperature setting. Dual limit controls have fixed temperature setting and protect heating system from abnormal operating conditions.

**Heating-Cooling Thermostat Furnished** — Combination single stage heat and single stage cool thermostat has temperature setting dial, system selector switch and blower selector switch for intermittent or continuous blower operation.

**Thoroughly Tested and Certified** — The design of the unit is A.G.A. Certified as combination (natural or propane) heating-cooling unit for outdoor installation. Complies with ANSI safety codes. Cooling system has been thoroughly tested and rated in the Lennox environmental test room according to ARI Standard 210 conditions. In addition, unit has been sound tested in the Lennox reverberant sound test room according to ARI Standard 270 conditions. Units coming within the scope of this standard (135,000 Btuh or less) carry the ARI certification seal.

**Optional Supply and Return Duct** — Provides connection of combination supply and return diffuser. Furnished in nominal 4 ft. lengths and constructed of 1" thick fiberglass duct board with an aluminum exterior. Shipped knocked down with tape, staples and installing instructions for field assembly. See specification table for order no. and mounting detail drawings for dimensions.

**Optional Combination Supply & Return Adapter Kit (RT8)** — The adapter kit (LB-3311BA) adapts the RT8 duct enclosure for combination ceiling supply and return application (not required on RD8). The insulated plenum assembly field installs to return air opening of GCS3 unit inside the RT8 duct enclosure. See Installation Instruction.

offers two different styles of air diffusers. The RTD step-down model extends below ceiling level when installed. The FD model is almost flush with the ceiling when installed. Supply air is discharged through the outside grilles and return air enters through the center grille on both models. Adjustable vanes are available on both models for air distribution.

**Optional Nite Setback Controls** — A nite thermostat (P-8-8899), subbase (P-8-8890) and adaptor plate (P-8-8954) (to adapt to vertical outlet box) is available. Manual switch (BM-4762) or 12 hour timer (BM-4761) field installed nite setback kits are available to override existing nite setback controls. The switch or timer is mounted on a stainless steel plate which fits two standard electrical outlet boxes (furnished by installer) located in the wall. In order to receive the plate, sufficient clearance should be provided between outlet box and any door or window. A skip-day clock (P-8-3744) to program this unit automatically is also available. Clock is required with kit (BM-4761) and is optional with kit (BM-4762).

**Optional Remote Readout Panel** — Readout Panel (BM2-5358), Rough-In Box (BM1-5358) and Readout Panel Kit (BM-5817) must be ordered extra. See bulletin in Accessories Section for complete data. When panel is used for nite setback operation the following controls must be used and ordered extra; nite thermostat (P-8-8899), subbase (P-8-8890), adaptor plate (P-8-8954) and skip-day clock (P-8-3744).

**Optional OAD3-46/65 Minimum Fresh Air Damper** — Externally mounted in RT8-65 duct enclosure. Equipped with manually operated damper and necessary fittings for installing.

**Optional RD8 POWER SAVER And RT8 Duct Enclosure** — Application flexibility is possible with the options available as follows:

- 1 — Completely assembled RD8-65 Power Saver and Enclosure:
  - A — With wired and linked Power Saver Installed.
    - a — With hole cut for ceiling supply & return distribution
    - b — With holes cut for double duct distribution system.
- 2 — Completely assembled RT8-65 duct enclosure:
  - A — Without Power Saver (Power Saver cannot be added to RT8, if Power Saver is required order RD8-65)
    - a — With optional Comb. Supply & Return Adapter kit.
    - b — With holes cut for double duct distribution system.

**Optional Mounting Frame** — The RMF3-65 mounting frame is available for mounting the RT8 or RD8 duct enclosure and GCS3 unit. Frame provides an automatic weather sealed rooftop installation. Approved by National Roofing Contractors Association. A securing bolt kit (BM-6908), containing bolts to secure unit to frame, is available as optional equipment and must be ordered extra.

**POWER SAVER Operation** — The entire Power Saver control system is factory installed and wired, simply make plug-in connections to complete the job. The only field wiring required is when the optional nite setback thermostat is used. Basic control system consists of:

1 — **Lennox DO-3-S** — 24 volt, spring return multiposition damper motor with motor and gear train sealed in non-temperature sensitive oil. It controls the position of the outdoor air, recirculated air and pressure relief dampers as dictated by the room thermostat and controlled by the following:

2 — **Mixed Air Temperature Controller** — This adjustable highly sensitive device controls the damper motor to position the dampers to give the selected mixed air temperature. The inherent quick sensing of this control coupled with the fast acting Lennox damper motor gives in effect modulated control of entering mixed air temperature.

3 — **Compressor Monitor** — An outdoor thermostat switch (adjustable) which locks out compressor operation below approximately 58F outdoor air temperature. This allows the outdoor air to handle the entire cooling load below 58F.

4 — **Outdoor Air Monitor** — A temperature sensing control (adjustable) which returns the outdoor air dampers to minimum when the outdoor air has more heat than recirculated room air, set at 70F.

5 — **Climate Selection Switch** — A manually operated toggle switch with one position labeled "Dry Climate — Maximum Power Saving" and the other labeled "Humid Climate — Maximum Dehumidification." In the "Dry Climate" position, above the Compressor Monitor temperature setting (usually 58F) and below the Outdoor Air Monitor setting (usually 70F) the outdoor air damper can open 100%, as dictated by the mixed air temperature controller. This provides the maximum "Free Cooling" benefits from the outdoor air. In the "Humid Climate" position above 58F and below 70F, the outdoor air damper can open 100% (controlled by mixed air temperature controller) only when the compressor is operating. This gives maximum dehumidification because in moist climates the humid outdoor air enters the structure in maximum quantity only when the compressor is operating, thus "drying out" the air.

6 — **Room Thermostat** — The Lennox Power Saver will co-operate perfectly with any heating-cooling thermostat.

## SPECIFICATIONS

Model No.		GCS3-511-120-150 GCS3-513-120-150	GCS3-651-120-150 GCS3-653-120-150
Heating Capacity	Btuh Input (minimum)	120,000	120,000
	Btuh Output (minimum)	90,000	90,000
	Btuh Input (maximum)	150,000	150,000
	Btuh Output (maximum)	112,500	112,500
††Two Stage Heating Capacity	Btuh Input (low stage)	75,000	75,000
	Btuh Input (high stage)	150,000	150,000
	Btuh Output (high stage)	112,500	112,500
★ARI Standard 270 SRN		21	21
*ARI Standard 210 Ratings	Total cooling capacity Btuh	51,000	▲62,000
	Total unit watts	16900	8700
	EER (Btuh/watt)	7.4	7.1
	Dehumidifying capacity	28%	29%
Blower wheel nominal diameter x width (in.)		(2) 10 x 6	(2) 10 x 6
Blower motor horsepower		1/2	1/2
Refrigerant (R-22) charge		6 lbs. 5 oz.	7 lbs. 8 oz.
Condenser Coil	Net face area (sq. ft.)	8.33	8.33
	Tube diam. (in.) & No. of rows & fpi	3/8 — 2 — 20	3/8 — 3 — 18
Condenser Fan	Diam. (in.) & No. of blades	26 — 5	26 — 5
	Air volume (factory setting)	3900	3900
	Motor horsepower	1/2	1/2
		670	670
Evaporator Coil	Net face area (sq. ft.)	3.75	4.58
	Tube diam. (in.) & No. of rows & fpi	1/2 — 4 — 10	1/2 — 4 — 10
No. & size of filters (in.)		(1) 16-1/2 x 31-1/2 x 1 (1) 16-1/2 x 27-7/8 x 1	(1) 16-1/2 x 31-1/2 x 1 (1) 16-1/2 x 27-7/8 x 1
Gas supply connection MPT (in.) (Nat. & Propane)		1/2	1/2
Recommended gas supply pressure WC (in.)	Natural	6	6
	Propane	11	11
Condensate drain size MPT (in.)		3/4	3/4
Net weight of basic unit (lbs.) (1-Pkg.)		820	890
Optional Duct Enclosure (Without Power Saver)		RT8-65 (Net wt. — 229 lbs.)	
Optional Duct Enclosure with Power Saver & controls installed		RD8-65 (Net wt. — 350 lbs.)	
Optional Roof Mounting Frame		RMF3-65 (Net wt. — 100 lbs.)	
Optional Minimum Fresh Air Damper		OAD3-46/65 (Net wt. — 7 lbs.)	
Optional Combination Supply & Return Adapter Kit (RT8)		LB-33111 BA (Net wt. — 43 lbs.)	
Optional Ceiling Supply And Return Step-Down Diffuser		RTD-65 (Net wt. — 52 lbs.)	
Optional Ceiling Supply And Return Flush Diffuser		FD-65 (Net wt. — 26 lbs.)	
		**FD-65-D (Net wt. — 33 lbs.)	
Combination Supply & Return Air Duct (RTD & FD Diffusers)		BM-7820 (Net wt. — 36 lbs.)	

Rated in accordance with ARI Standard 210; 450 cfm (maximum) evaporator air volume per ton of cooling capacity, 95F outdoor air temperature and 80F db/67F wb entering evaporator air. \*\*Flush diffuser with adjustable baffle blades.

★Rated in accordance with ARI Standard 270. ▲Derate 1000 Btuh for 208 volt operation. †Deduct 100 watts for 208 volt operation on single phase units.

††Available for natural gas usage only and field converted with two stage conversion kit (BM-7041).

NOTE — Propane gas models are field converted with a changeover kit (LB-19633D) and must be ordered extra.

### 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.<sup>3</sup>, the unit will require a 16% derate.

Elevation Above Sea Level (feet)	Maximum Heating Value (Btu/ft <sup>3</sup> )
5001 — 6000	900
4001 — 5000	950
3001 — 4000	1000
2001 — 3000	1050
Sea Level — 2000	1100

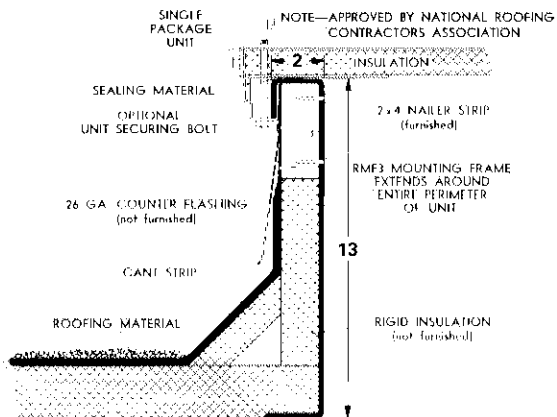
### RATINGS

Unit Model No.	Evaporator Air 80F Dry Bulb		Outdoor Air Temperature Entering Condenser (F)											
	Entering Wet Bulb Degrees (F)	Total Air Volume (cfm)	85			95			105			115		
			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
GCS3-511 GCS3-513	63	1600	52,200	.84	4930	48,800	.87	5190	45,000	.90	5600	40,900	.93	5930
		1800	54,700	.89	5010	50,700	.92	5320	46,800	.95	5730	42,400	.98	6000
		2000	56,000	.94	5090	51,800	.97	5390	48,000	.99	5820	43,500	1.00	6150
	67	1600	56,300	.66	5100	52,200	.68	5420	48,100	.70	5830	43,500	.73	6150
		1800	57,500	.70	5170	53,300	.72	5490	49,200	.74	5920	44,500	.77	6250
		2000	58,600	.73	5230	54,300	.75	5560	50,000	.78	5980	45,500	.81	6320
	71	1600	59,800	.51	5300	56,000	.52	5670	52,500	.53	6160	48,500	.54	6580
		1800	60,900	.53	5360	57,100	.54	5750	53,500	.55	6240	49,500	.57	6660
		2000	61,800	.55	5410	58,400	.56	5830	54,800	.57	6330	50,400	.60	6740
GCS3-651 GCS3-653	63	2000	62,500	.83	6470	59,000	.86	6850	53,800	.89	7140	48,200	.92	7570
		2250	64,300	.87	6570	61,200	.90	6980	56,000	.93	7280	50,400	.96	7730
		2500	65,700	.91	6640	62,700	.94	7070	58,100	.97	7420	52,800	.99	7900
	67	2000	65,800	.66	6650	63,100	.67	7090	58,200	.69	7420	52,900	.72	7900
		2250	67,500	.69	6730	64,800	.71	7190	60,100	.73	7560	55,100	.76	8070
		2500	68,700	.72	6800	66,200	.74	7270	61,700	.77	7660	56,800	.80	8200
	71	2000	68,800	.50	6800	66,200	.51	7270	61,600	.52	7660	56,800	.53	8200
		2250	70,100	.52	6870	67,500	.53	7350	63,200	.54	7760	58,300	.56	8310
		2500	71,300	.54	6940	68,900	.55	7430	65,000	.56	7880	60,200	.59	8420

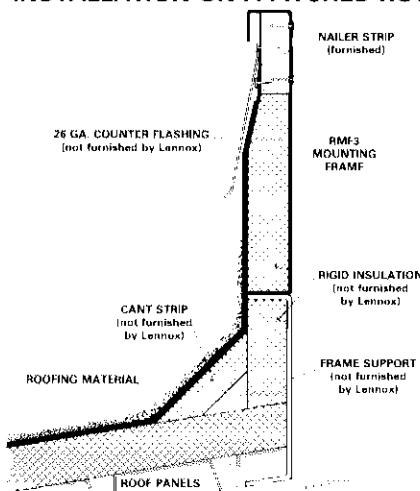
NOTE — All values are gross capacities and do not include evaporator coil blower motor heat deduction.



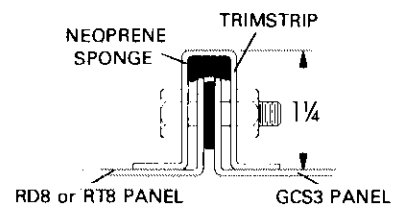
## RECOMMENDED FLASHING FOR RMF3 ROOF MOUNTING FRAME



## RMF3 ROOF MOUNTING FRAME INSTALLATION ON A PITCHED ROOF

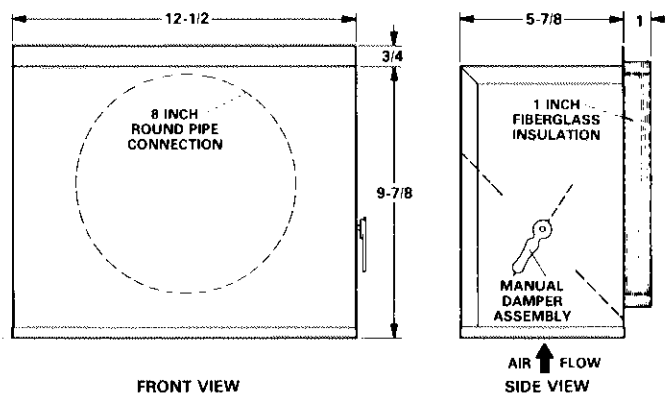


## RD8 or RT8 MOUNTING DETAIL

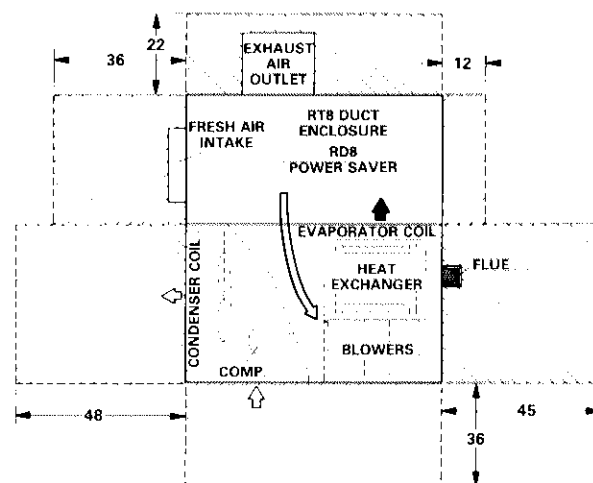


RD8 or RT8 is attached to the GCS3 unit with a minimum amount of time and labor. Trim strips and five bolts, in pre-punched holes, provide a weatherproof seal between the cabinets.

## OPTIONAL OAD3-46/65 MINIMUM FRESH AIR DAMPER



## INSTALLATION CLEARANCES (inches)



## ELECTRICAL DATA

Model No.	GCS3-511	GCS3-513	GCS3-651	GCS3-653			
Line voltage data	††208-230V 60Hz/1ph	208-240V 60Hz/3ph	440-480V 60Hz/3ph	††230V 60Hz/1ph			
Compressor	Rated load amps	30.4	15.5	7.5	37.9	20.0	10.0
	Locked rotor amps	132.0	103.0	38.0	179.0	135.0	48.0
	Power factor	.92	.85	.85	.92	.85	.85
Condenser Fan Motor	Full load amps	3.4	3.4	*----	3.4	3.4	*----
	Locked rotor amps	7.1	7.1	7.1	7.1	7.1	7.1
†350 VA control transformer (FLA)	1.5	1.5	*----	1.5	1.5	*----	
2 KVA Transformer (FLA)	----	----	4.45	----	----	4.45	
Evaporator Blower Motor (230 volt)	Full load amps	4.5	4.5	*----	4.5	4.5	*----
	Locked rotor amps	9.0	9.0	9.0	9.0	9.0	9.0
*Minimum Circuit Ampacity	45.9	27.3	13.3	55.3	32.9	16.5	

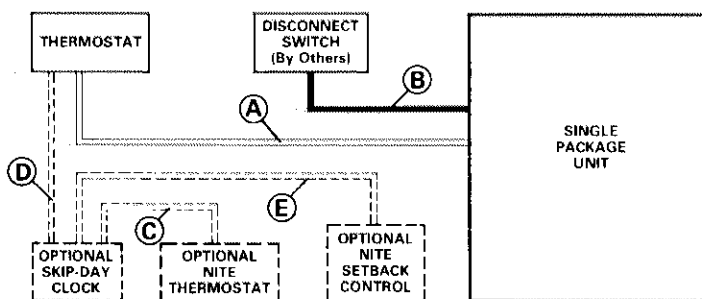
\*Included in 2 KVA transformer full load amps.

\*\*Refer to National Electrical Code manual to determine wire, fuse and disconnect size requirements.

†Not required with 440-480 volt units.

NOTE — Extremes of operating range are plus and minus 10% of line voltage. ††Plus 10% and minus 5% of line voltage.

## 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)

\*If POWER SAVER and Nite Setback controls are used one additional wire is required.

B — Two or three wire power (See Electrical Data Table)

C — Two wire low voltage

D — Two wire low voltage (Without POWER SAVER)

Three wire low voltage (With POWER SAVER)

E — Three wire low voltage

Additional field wiring is not required when POWER SAVER is used. All wiring is provided in GCS3 and in POWER SAVER, simply make plug-in connections to complete job.

All wiring must conform to NEC and local electrical codes.

If local electric code permits may be class 2 wiring.

**GCS3-511-513 BLOWER PERFORMANCE**

External Static Pressure (in. wg.)	Air Volume (Cfm) @ Various Speeds		
	High	Medium	Low
0	2425	1985	1570
.05	2375	1955	1555
.10	2325	1920	1540
.15	2275	1885	1520
.20	2220	1850	1500
.25	2165	1815	1480
.30	2110	1775	1460
.40	2005	1695	1410
.50	1885	1610	1345
.60	1760	1515	1260
.70	1630	1400	1135

NOTE — All Cfm data is measured external to the unit using standard return air opening and with the air filter in place.

**GCS3-511-513 BLOWER PERFORMANCE WITH RD8-65 AND DUCT DISTRIBUTION**

External Static Pressure (in. wg.)	Air Volume (Cfm) @ Various Speeds		
	High	Medium	Low
0	2290	1905	1535
.05	2240	1875	1520
.10	2190	1840	1500
.15	2140	1810	1480
.20	2090	1775	1460
.25	2035	1740	1435
.30	1985	1700	1410
.40	1885	1625	1360
.50	1775	1535	1290
.60	1665	1430	1170
.70	1545	1260	----

NOTE — All Cfm data is measured external to the unit using standard return air opening and with the air filter in place.

**GCS3-651-653 BLOWER PERFORMANCE**

External Static Pressure (in. wg.)	Air Volume (Cfm) @ Various Speeds		
	High	Medium	Low
0	2640	2180	1730
.05	2590	2145	1715
.10	2545	2105	1690
.15	2495	2070	1670
.20	2430	2030	1645
.25	2390	1990	1620
.30	2335	1950	1595
.40	2220	1860	1535
.50	2100	1765	1470
.60	1965	1665	1370
.70	1820	1545	----

NOTE — All Cfm data is measured external to the unit using standard return air opening and with the air filter in place.

**GCS3-651-653 BLOWER PERFORMANCE WITH RD8-65 AND DUCT DISTRIBUTION**

External Static Pressure (in. wg.)	Air Volume (Cfm) @ Various Speeds		
	High	Medium	Low
0	2515	2085	1660
.05	2460	2050	1645
.10	2410	2015	1630
.15	2355	1975	1610
.20	2300	1940	1590
.25	2250	1900	1570
.30	2190	1860	1540
.40	2080	1770	1470
.50	1955	1675	1390
.60	1830	1565	1300
.70	1695	1435	----

NOTE — All Cfm data is measured external to the unit using standard return air opening and with the air filter in place.

**RTD-65 CEILING GRILLE AIR THROW DATA**

RTD-65 Step-Down Model	Air Volume (Cfm)	*Effective Throw (ft)		
		Horizontal Vanes 180° Straight	Horizontal Vanes 22° Down	Horizontal Vanes 45° Down
Two Sides Open	2000	51	45	31
	2250	56	50	34
	2500	61	54	37
Three Sides Open	2000	35	31	22
	2250	40	35	25
	2500	44	39	28
Four Sides Open	2000	28	25	17
	2250	30	27	18
	2500	33	29	20

\*Effective throw is terminated at a point where conditioned air velocity has decreased to 50 fpm.

**FD-65 AND FD-65-D CEILING GRILLE AIR THROW DATA**

Air Volume (Cfm)	*Effective Throw (ft)
800	7
900	8
1000	9
1200	11
1350	12
1500	14
2000	18
2250	20
2500	22

\*Terminated at the point where conditioned air velocity has decreased to 50 fpm.

**GCS3-511-513 WITH RD8-65 AND CEILING SUPPLY & RETURN**

Blower Speed Setting	Cfm @ Various Speeds With Various Discharge Grille Arrangements			
	FD-65 or FD-65-D Flush Model	RTD-65 Step-Down Model		
		2 Sides Open	3 Sides Open	4 Sides Open
High	1950	2020	2065	2100
Medium	1735	1740	1785	1810
Low	1490	1480	1500	1515

**GCS3-651-653 WITH RD8-65 AND CEILING SUPPLY & RETURN**

Blower Speed Setting	Cfm @ Various Speeds With Various Discharge Grille Arrangements			
	FD-65 or FD-65-D Flush Model	RTD-65 Step-Down Model		
		2 Sides Open	3 Sides Open	4 Sides Open
High	2100	2185	2245	2280
Medium	1885	1910	1960	1985
Low	1625	1625	1650	1665