

TECHNICAL GUIDE

SPLIT-SYSTEM AIR CONDITIONERS

13 SEER – R-22

MODELS:
GCGD12 THRU 60
(1 THRU 5 NOMINAL TONS, 1 PHASE)



Due to continuous product improvement, specifications are subject to change without notice.

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DESCRIPTION

The 13 SEER Series condensing unit is the outdoor part of a versatile system of air conditioning. It is designed to be custom-matched with one of UPG's complete line of evaporator sections, with each serving a specific function. Matching Air Handlers are available for upflow, downflow, or horizontal applications to provide a complete system. Electric Heaters are available, if required. Add-On coils are available for use with upflow, downflow, or horizontal furnaces and air handlers.

WARRANTY

Single Phase Units:

5-year limited parts warranty.

5-year limited compressor warranty.

FEATURES

- **QUALITY CONDENSER COILS** - The coil is constructed of aluminum microchannel tubing and enhanced aluminum fins for increased efficiency and corrosion protection.
- **PROTECTED COMPRESSOR** - The compressor is internally protected against high pressure and temperature. This is accomplished by the simultaneous operation of high pressure relief valve and a temperature sensor which protects the compressor if undesirable operating conditions occur. A liquid line filter-drier further protects the compressor.
- **DURABLE FINISH** - The cabinet is made of pre-painted steel. The pre-treated galvanized steel provides a better paint to steel bond, which resists corrosion and rust creep. Special primer formulas and matted-textured finish insure less fading when exposed to sunlight.
- **LOWER INSTALLED COST** - Installation time and costs are reduced by easy power and control wiring connections. Available in sweat connect models only. The unit contains enough refrigerant for matching indoor coils and 15 feet of interconnecting piping. The small base dimension means less space is required on the ground or roof.
- **TOP DISCHARGE** - The warm air from the top mounted fan is blown up away from the structure and any landscaping. This allows compact location on multi-unit applications.
- **LOW OPERATING SOUND LEVEL** - The upward air flow carries the normal operating noise away from the living area. The rigid top panel effectively isolates any motor sound. Isolator mounted compressor and the rippled fins of the condenser coil muffle the normal fan motor and compressor operating sounds.
- **LOW MAINTENANCE** - Long life permanently lubricated motor-bearings need no annual servicing.
- **EASY SERVICE ACCESS** - Fully exposed refrigerant connections, and a single panel covering the electrical controls make for easy servicing of the unit.
- **SECURED SERVICE VALVES** - Secured re-usable service valves are provided on both the liquid and vapor sweat connections for ease of evacuating and charging.
- **U.L. and C.U.L. listed** - approved for outdoor application.

Certified in accordance with the Unitary Small Equipment certification program, which is based on ARI Standard 210/240.

Physical and Electrical Data

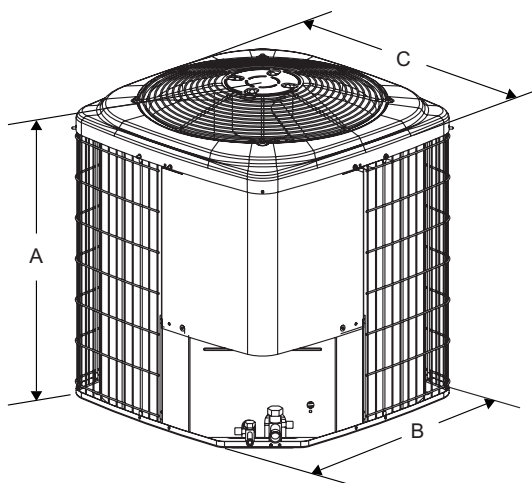
MODEL		GCGD12 S21S2	GCGD18 S21S2	GCGD24 S21S2	GCGD30 S21S2	GCGD36 S21S2	GCGD42 S21S2	GCGD48 S21S2	GCGD60 S21S2
Unit Supply Voltage		208-230V, 1 ϕ , 60Hz							
Normal Voltage Range ¹		187 to 252							
Minimum Circuit Ampacity		6.2	9.5	11.3	14.0	18.2	19.9	22.7	33.5
Max. Overcurrent Device Amps ²		15	15	15	20	30	30	35	50
Min. Overcurrent Device Amps ³		15	15	15	15	20	20	25	35
Compressor Type		Rotary	Rotary	Rotary	Recip	Recip	Recip	Recip	Scroll
Compressor Amps	Rated Load	4.5	7.2	8.4	10.6	13.4	14.7	17.0	25.6
	Locked Rotor	26.0	40.0	47.0	61.0	78.0	78.0	86.0	150.0
Crankcase Heater		No	No	No	No	No	No	No	No
Fan Motor Amps	Rated Load	0.50	0.50	0.80	0.80	1.4	1.5	1.5	1.5
Fan Diameter Inches		18	18	18	18	18	22	22	22
Fan Motor	Rated HP	1/12	1/12	1/8	1/8	1/4	1/4	1/4	1/4
	Nominal RPM	1100	1100	1075	1075	1100	850	850	850
	Nominal CFM	1350	1550	1850	1950	2400	3000	3000	3300
Coil	Face Area Sq. Ft.	8.1	9.7	9.7	11.3	12.1	16.5	16.5	19.75
	Rows Deep	1	1	1	1	1	1	1	1
	Fin / Inches	23	23	23	23	23	23	23	23
Liquid Line Set OD (Field Installed)		3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Vapor Line Set OD (Field Installed)		5/8	5/8	3/4	3/4	3/4	7/8	7/8	1-1/8
Unit Charge (Lbs. - Oz.) ⁴		3 - 2	3 - 0	3 - 13	3 - 7	3 - 15	4 - 2	4 - 5	5 - 4
Charge Per Foot, Oz.		0.66	0.66	0.68	0.68	0.68	0.70	0.70	0.76
Operating Weight Lbs.		96	110	130	150	160	175	176	200

1. Rated in accordance with ARI Standard 110, utilization range "A".

2. Dual element fuses or HACR circuit breaker. Maximum allowable overcurrent protection.

3. Dual element fuses or HACR circuit breaker. Minimum recommended overcurrent protection.

4. The Unit Charge is correct for the outdoor unit, matched indoor coil and 15 feet of refrigerant tubing. For tubing lengths other than 15 feet, add or subtract the amount of refrigerant, using the difference in length multiplied by the per foot value.



All dimensions are in inches. They are subject to change without notice. Certified dimensions will be provided upon request.

DIMENSIONS

Unit Model	Dimensions (Inches)			Refrigerant Connection Service Valve Size	
	A ¹	B	C	Liquid	Vapor
12	24	23-1/2	23-1/2	3/8"	3/4"
18	28	23-1/2	23-1/2		
24	28	23-1/2	23-1/2		
30	32	23-1/2	23-1/2		
36	34	23-1/2	23-1/2		
42	34	29	29		7/8"
48	34	29	29		
60	40	29	29		
					1-1/8"

1. Including Fan Guard.

Additional R-22 Charge / Orifice Size for Various Matched Systems								
Outdoor Unit	GCGD12 S21S2	GCGD18 S21S2	GCGD24 S21S2	GCGD30 S21S2	GCGD36 S21S2	GCGD42 S21S2	GCGD48 S21S2	GCGD60 S21S2
Required Orifice or TXV ^{1,2}	0.041 / 2A	0.052 / 2A	0.059 / 0.061 / 2A	0.065 / 2A	0.073 / 2A	0.081 / 2C	0.084 / 2C	0.096 / 2C
Factory R-22 Charge, lbs-oz	3 - 2	3 - 0	3 - 13	3 - 7	3 - 15	4 - 2	4 - 5	5 - 4
Indoor Coil ^{3,4}	Additional Charge, Oz							
FC/MC/PC/UC18A2A	0	0	—	—	—	—	—	—
FC/MC/PC/UC18B2A	0	0	—	—	—	—	—	—
FC/MC/PC/UC24A2A	—	0	—	—	—	—	—	—
FC/MC/PC/UC24B2A	—	0	—	—	—	—	—	—
FC/MC/PC32A2A	—	—	+3	+4	—	—	—	—
FC/MC/PC35B2A	—	—	+3	+4	—	—	—	—
FC/MC/PC35C2A	—	—	+3	+4	—	—	—	—
FC/MC/PC/UC36A2A	—	—	0	—	—	—	—	—
FC/MC/PC/UC36B2A	—	—	0	—	—	—	—	—
FC/MC/PC/UC36C2A	—	—	0	—	—	—	—	—
FC/MC/PC37A2A	—	—	+7	+12	+4	—	—	—
FC/MC/PC43B2C	—	—	—	—	—	0	—	—
FC/MC/PC43C2C	—	—	—	—	—	0	—	—
FC/MC/PC/UC48C2C	—	—	—	—	—	+5	+2	—
FC/MC/PC/UC48D2C	—	—	—	—	—	+5	+2	—
FC/MC62D2C	—	—	—	—	—	—	—	0
HC18A2A	0	0	—	—	—	—	—	—
HC30A2A	—	—	0	—	—	—	—	—
HC36B2A	—	—	+3	+4	—	—	—	—
HC42C2C	—	—	—	+12	+4	0	—	—
AHP18B2A	0	0	—	—	—	—	—	—
AHP24B2A	—	0	—	—	—	—	—	—
AHP30B2A	—	—	+3	+4	—	—	—	—
AHP36C2A	—	—	—	+12	+4	—	—	—
AHP42C2C	—	—	—	—	—	0	—	—
AHP/SHP60D2C	—	—	—	—	—	—	0	—
FC/MC/PC/UC18A3X	41 + 0	52 + 0	—	—	—	—	—	—
FC/MC/PC/UC18B3X	41 + 0	52 + 0	—	—	—	—	—	—
FC/MC/PC/UC24A3X	—	52 + 2	—	—	—	—	—	—
FC/MC/PC/UC24B3X	—	52 + 2	—	—	—	—	—	—
FC/MC/PC32A3X	—	—	61 + 3	65 + 4	—	—	—	—
FC/MC/PC35B3X	—	—	61 + 3	65 + 4	—	—	—	—
FC/MC/PC35C3X	—	—	61 + 3	65 + 4	—	—	—	—
FC/MC/PC/UC36A3X	—	—	59 + 0	—	—	—	—	—
FC/MC/PC/UC36B3X	—	—	59 + 0	—	—	—	—	—
FC/MC/PC/UC36C3X	—	—	59 + 0	—	—	—	—	—
FC/MC/PC37A3X	—	—	61 + 7	65 + 12	73 + 4	—	—	—
FC/MC/PC43B3X	—	—	61 + 7	65 + 12	73 + 4	81 + 0	—	—
FC/MC/PC43C3X	—	—	61 + 7	65 + 12	73 + 4	81 + 0	—	—
FC/MC/PC/UC48C3X	—	—	—	—	73 + 4	81 + 5	84 + 2	—
FC/MC/PC/UC48D3X	—	—	—	—	73 + 4	81 + 5	84 + 2	—
FC/MC62D3X	—	—	—	—	—	—	—	96 + 0
HC18A3X	41 + 0	52 + 0	—	—	—	—	—	—
HC30A3X	—	—	59 + 0	—	—	—	—	—
HC36B3X	—	—	61 + 3	65 + 4	—	—	—	—
HC42C3X	—	—	61 + 7	65 + 12	73 + 4	81 + 0	—	—

For Notes See Page 4.

Additional R-22 Charge / Orifice Size for Various Matched Systems (Continued)								
Outdoor Unit	GCGD12 S21S2	GCGD18 S21S2	GCGD24 S21S2	GCGD30 S21S2	GCGD36 S21S2	GCGD42 S21S2	GCGD48 S21S2	GCGD60 S21S2
Required Orifice or TXV ^{1,2}	0.041 / 2A	0.052 / 2A	0.059 / 0.061 / 2A	0.065 / 2A	0.073 / 2A	0.081 / 2C	0.084 / 2C	0.096 / 2C
Factory R-22 Charge, lbs-oz	3 - 2	3 - 0	3 - 13	3 - 7	3 - 15	4 - 2	4 - 5	5 - 4
Indoor Coil ^{3,4}	Additional Charge, Oz							
AHP18B3X	41 + 0	52 + 0	—	—	—	—	—	—
AHP24B3X	—	52 + 0	—	—	—	—	—	—
AHP30B3X	—	—	61 + 3	65 + 4	—	—	—	—
AHP36C3X	—	—	—	—	73 + 4	—	—	—
AHP42C3X	—	—	—	—	73 + 4	81 + 0	—	—
AHP/SHP60D3X	—	—	—	—	—	—	84 + 0	—
F4FP024 See Caution below	—	52 + 0	—	—	—	—	—	—
	—	2A + 0	—	—	—	—	—	—
F4FP036 See Caution below	—	—	61 + 1	—	—	—	—	—
	—	—	2A + 2	—	—	—	—	—
F4FP040 See Caution below	—	—	—	65 + 0	—	—	—	—
	—	—	—	2A + 0	—	—	—	—
F5FP048 See Caution below	—	—	—	—	73 + 0	81 + 5	84 + 2	—
	—	—	—	—	2A + 0	2C + 5	2C + 2	—
F5FP060 See Caution below	—	—	—	—	—	—	84 + 0	—
	—	—	—	—	—	—	2C + 0	—

FOOTNOTES:

1. For applications requiring a TXV use 1TVM series kit.
2. Approved orifice shipped with outdoor unit.
3. Systems matched with furnace or air handlers not equipped with blower-off delays may require blower Time Delay Kit 2FD06700224.
4. PC coils cannot be used in downflow or horizontal applications. FC coils cannot be used in horizontal applications.

PROCEDURES:

1. Unit factory charge listed on the unit nameplate includes refrigerant for the condenser, the smallest evaporator and 15 feet of inter-connecting line tubing.
2. Verify the TXV or orifice and additional charge required for specific evaporator coil in the system using the above table.
3. Additional charge for the amount of interconnecting line tubing greater than 15 feet at the rate specified in Physical and Electrical Data Table.
4. For TXV match charge weight needs to be weighed in for specific coil match and lineset length.
5. Permanently mark the unit nameplate with the total system charge. Total System Charge = Base Charge (as shipped) + adder for evaporator + adder for line set.

IMPORTANT

Models 12-48 require start kits for TXV matches. Models with "H" on the end of the model number have factory installed start kits. For models without an "H" refer to tech guide for kit number reference.

CAUTION

F*FP Air Handlers come with a factory installed R-22 TXV. Please note that some models may take a different TXV than what is factory installed. The proper TXV must be installed for system reliability and performance. Also note, TXV must be removed for orifice match.

COOLING CAPACITY - With Air Handler Coils

UNIT MODEL	AIR HANDLER		COIL MODEL ¹	COOLING				
	MODEL	W		RATED CFM	NET MBH		SEER	EER
					TOTAL	SENS.		
13 SEER AC WITH MA								
GCGD18S21S2	MA08B	17	FC/MC18B	600	18.0	12.6	13.00	11.00
	MA08B	17	FC/MC24B	600	18.0	12.6	13.00	11.00
GCGD24S21S2	MA08B	17	FC/MC35B	800	24.0	17.2	13.00	11.00
	MA08B	17	FC/MC36B	800	24.0	17.2	13.00	11.00
	MA08B	17	FC/MC43B	800	24.0	17.2	13.00	11.00
GCGD30S21S2	MA12B	17	FC/MC35B	1000	29.0	21.2	13.00	11.00
	MA12B	17	FC/MC43B	1000	29.0	21.2	13.00	11.00
GCGD36S21S2	MA12B	17	FC/MC43B	1200	35.0	24.4	13.00	11.00
	MA14D	24	FC/MC48D	1200	35.0	24.4	13.00	11.00
GCGD42S21S2	MA16C	21	FC/MC43C	1400	42.0	29.4	13.00	11.00
	MA14D	24	FC/MC48D	1400	42.0	29.4	13.00	11.00
	MA16C	21	FC/MC48C	1400	42.0	29.4	13.00	11.00
GCGD48S21S2	MA16C	21	FC/MC48C	1600	46.0	32.6	13.00	11.00
	MA20D	24	FC/MC48D	1600	46.0	32.6	13.00	11.00
GCGD60S21S2	MA20D	24	FC/MC62D	1800	54.0	41.5	13.00	11.00
13 SEER AC WITH AHP / SHP / F*FP								
GCGD12S21S2	AHP18	17	—	450	12.0	8.9	13.00	11.00
GCGD18S21S2	AHP18	17	—	650	18.0	12.6	13.00	11.00
	AHP24	17	—	650	18.0	12.6	13.00	11.00
	F4FP024	18	—	600	18.0	12.6	1300	11.00
GCGD24S21S2	AHP30	17	—	795	24.0	17.3	13.00	11.00
	F4FP036	21.5	—	860	24.0	17.3	13.00	11.00
GCGD30S21S2	AHP30	17	—	1015	29.0	21.2	13.00	11.00
	AHP36	21	—	1015	29.0	21.2	13.00	11.00
	F4FP040	21.5	—	1000	29.0	21.2	13.00	11.00
GCGD36S21S2	AHP36	21	—	1235	35.0	24.4	13.00	11.00
	F5FP048	24	—	1235	35.0	24.4	13.00	11.00
GCGD42S21S2	AHP42	21	—	1485	42.0	29.4	13.00	11.00
	F5FP048	24	—	1455	42.0	29.4	13.00	11.00
GCGD48S21S2	AHP/SHP60	24	—	1600	46.0	33.0	13.00	11.00
	F5FP048	24	—	1690	46.0	33.0	13.00	11.00
	F5FP060	24	—	1680	46.0	33.0	13.00	11.00

Rated in accordance with DOE test procedures (Federal Register 12-27-79 and 3-18-88) and ARI Standards 210.

Cooling MBH based on 80°F entering air temperature, 50% RH, and rated air flow.

EER (Energy Efficiency Ratio) is the total cooling output in BTU's at 95°F outdoor ambient divided by the total electric power in watt-hours at those conditions.

SEER (Seasonal Energy Efficiency Ratio) is the total cooling output in BTU's during a normal annual usage period for cooling divided by the total electric power input in watt-hours during the same period.

1. MC coils available with a factory installed horizontal drain pan. See price pages for specific model number.

— = Not applicable.

COOLING CAPACITY - Upflow, Downflow & Horizontal Furnaces and Coils

UNIT MODEL	FURNACE**		COIL MODEL	COOLING				
	CFM RANGE (Min.-max.)	W		RATED CFM	NET MBH		SEER ¹	EER
					TOTAL	SENS.		
GCGD12S21S2	450 - 750	14,17	FC/MC/PC18	450	12.0	9.1	13.00	11.00
	450 - 750	14	HC18	450	12.0	9.1	13.00	11.00
	450 - 750	14,17	UC18	450	12.0	9.1	13.00	11.00
GCGD18S21S2	450 - 750	14,17	FC/MC/PC18	600	18.0	12.6	13.00	11.00
	450 - 750	14,17	FC/MC/PC24	600	18.0	12.6	13.00	11.00
	450 - 750	14	HC18	600	18.0	12.6	13.00	11.00
	450 - 750	14,17	UC18	600	18.0	12.6	13.00	11.00
	450 - 750	14,17	UC24	600	18.0	12.6	13.00	11.00
GCGD24S21S2	600 - 1000	14	FC/MC/PC32	800	24.0	17.2	13.00	11.00
	600 - 1000	17,21	FC/MC/PC35	800	24.0	17.2	13.00	11.00
	600 - 1000	14,17,21	FC/MC/PC36	800	24.0	17.2	13.00	11.00
	600 - 1000	14	FC/MC/PC37	800	24.0	17.2	13.00	11.00
	600 - 1000	17,21	FC/MC/PC43	800	24.0	17.2	13.00	11.00
	600 - 1000	14	HC30	800	24.0	17.2	13.00	11.00
	600 - 1000	17	HC36	800	24.0	17.2	13.00	11.00
	600 - 1000	21	HC42	800	24.0	17.2	13.00	11.00
	600 - 1000	14,17,21	UC36	800	24.0	17.2	13.00	11.00
GCGD30S21S2	800 - 1200	14	FC/MC/PC32	1000	29.0	21.2	13.00	11.00
	800 - 1200	17,21	FC/MC/PC35	1000	29.0	21.2	13.00	11.00
	800 - 1200	14	FC/MC/PC37	1000	29.0	21.2	13.00	11.00
	800 - 1200	17,21	FC/MC/PC43	1000	29.0	21.2	13.00	11.00
	800 - 1200	17	HC36	1000	29.0	21.2	13.00	11.00
	800 - 1200	21	HC42	1000	29.0	21.2	13.00	11.00
GCGD36S21S2	1000 - 1400	14	FC/MC/PC37	1200	35.0	24.4	13.00	11.00
	1000 - 1400	17,21	FC/MC/PC43	1200	35.0	24.4	13.00	11.00
	1000 - 1400	21,24	FC/MC/PC48	1200	35.0	24.4	13.00	11.00
	1000 - 1400	21	HC42	1200	35.0	24.4	13.00	11.00
	1000 - 1400	21,24	UC48	1200	35.0	24.4	13.00	11.00
GCGD42S21S2	1200 - 1600	17,21	FC/MC/PC43	1400	42.0	29.4	13.00	11.00
	1200 - 1600	21,24	FC/MC/PC48	1400	42.0	29.4	13.00	11.00
	1200 - 1600	21	HC42	1400	42.0	29.4	13.00	11.00
	1200 - 1600	21,24	UC48	1400	42.0	29.4	13.00	11.00
GCGD48S21S2	1400 - 1800	21,24	FC/MC/PC48	1550	46.0	32.6	13.00	11.00
	1400 - 1800	21,24	UC48	1550	46.0	32.6	13.00	11.00
GCGD60S21S2	1600 - 2000	24	FC/MC62	2000	55.0	41.0	13.00	11.00

1. Requires a 2FD06700224 Blower Time Delay unless a standard furnace is equipped with one.

** Refer to Quick Selection Chart for specific furnace match-up.

CONDENSER ONLY DATA

MODEL	SUCTION T/P @ COMPRESSOR		AIR TEMP ON CONDENSER					
			75° F		95° F		115° F	
	Temp.	PSIG	MBH	KW	MBH	KW	MBH	KW
GCGD12S21S2 SH 11 / SC 13 @ 95 OD Temp	40	68.6	11.81	0.73	8.15	0.85	5.29	1.01
	45	76.1	12.65	0.73	10.15	0.86	7.21	1.02
	50	84.1	13.55	0.74	12.29	0.87	9.26	1.04
GCGD18S21S2 SH 11 / SC 10 @ 95 OD Temp	40	68.6	17.53	1.07	15.03	1.29	11.98	1.57
	45	76.1	18.63	1.07	17.25	1.30	14.07	1.59
	50	84.1	19.80	1.08	19.61	1.31	16.30	1.61
GCGD24S21S2 SH 10 / SC 12 @ 95 OD Temp	40	68.6	22.88	1.42	19.07	1.70	13.99	2.02
	45	76.1	24.93	1.44	22.25	1.72	17.25	2.07
	50	84.1	27.12	1.47	25.63	1.75	20.72	2.12
GCGD30S21S2 SH 12 / SC 10 @ 95 OD Temp	40	68.6	28.77	1.75	23.85	2.01	17.06	2.21
	45	76.1	30.28	1.80	26.56	2.07	19.76	2.31
	50	84.1	31.89	1.86	29.45	2.13	22.64	2.40
GCGD36S21S2 SH 10 / SC 11 @ 95 OD Temp	40	68.6	31.46	2.16	18.41	2.37	13.42	2.78
	45	76.1	36.54	2.20	25.84	2.47	18.88	2.85
	50	84.1	41.95	2.24	33.77	2.58	24.71	2.91
GCGD42S21S2 SH 10 / SC 9 @ 95 OD Temp	40	68.6	40.44	2.46	28.86	2.83	21.78	3.21
	45	76.1	45.28	2.52	36.10	2.91	27.55	3.30
	50	84.1	50.44	2.59	43.82	3.00	33.70	3.41
GCGD48S21S2 SH 10 / SC 12 @ 95 OD Temp	40	68.6	42.04	2.70	26.14	3.03	21.19	3.49
	45	76.1	46.86	2.77	35.10	3.16	27.59	3.60
	50	84.1	52.00	2.85	44.65	3.30	34.43	3.73
GCGD60S21S2 SH 10 / SC 9 @ 95 OD Temp	40	68.6	52.76	3.40	46.38	4.04	36.26	5.08
	45	76.1	59.98	3.41	53.35	4.14	42.46	5.15
	50	84.1	67.69	3.41	60.79	4.25	49.07	5.22

ACCESSORIES

Refer to Price Manual for specific model numbers.

HARD START KIT - Required when using TXV indoor coil. Also, provides increased starting torque for areas with low voltage.

Model	Source 1 Kit numbers
12	S1-2SA06708606
18	S1-2SA06708606
24	S1-2SA06708706
30	S1-2SA06705906
36	S1-2SA06708106
42	S1-2SA06708106
48	S1-2SA06708806

OFF CYCLE TIMER DELAY - Provides a 5-minute off cycle to prevent rapid recycling of the compressor.

ROOM THERMOSTATS - A wide selection of compatible thermostats are available to provide optimum performance and features for any installation.

1H/1C, manual changeover electronic non-programmable thermostat.

1H/1C, auto/manual changeover, electronic programmable, deluxe 7-day, thermostat.

1H/1C, auto/manual changeover, electronic programmable.

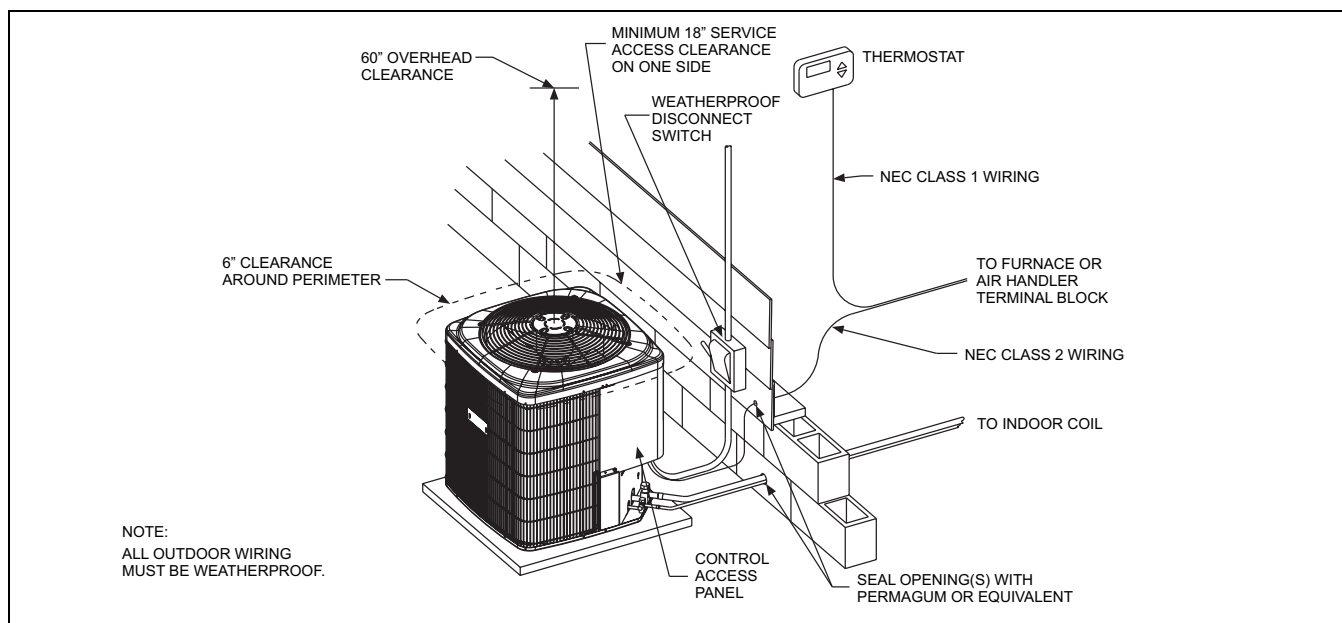
* For the most current accessory information, refer to the price book or consult factory.

SOUND POWER RATINGS*

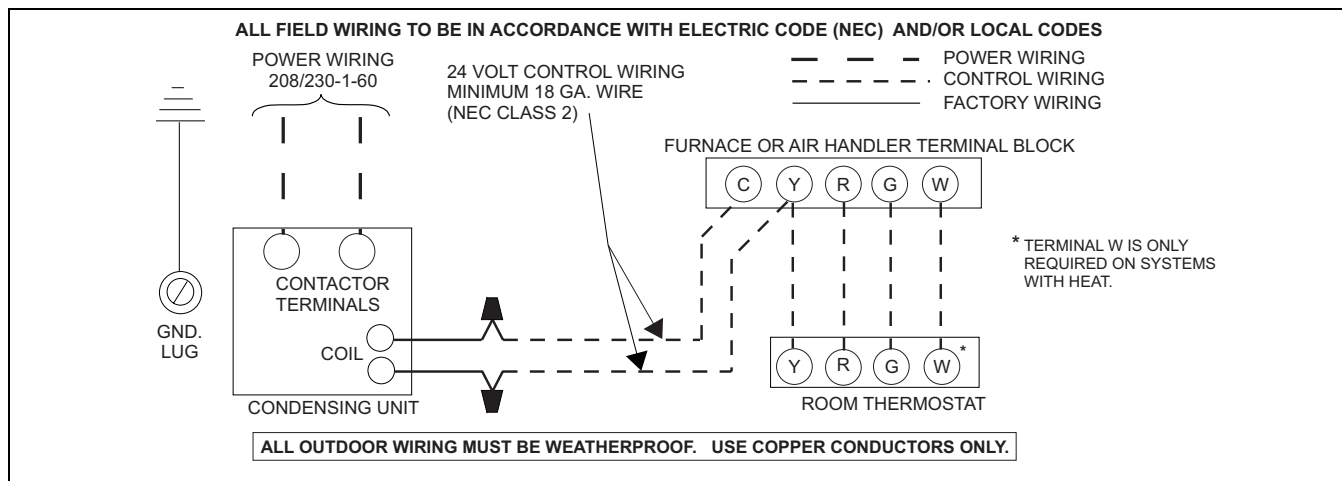
UNIT MODEL	(dBA)
12	72
18	75
24	76
30	75
36	76
42	75
48	76
60	78

* Rated in accordance with ARI 270-95 Standards.

TYPICAL INSTALLATION



TYPICAL FIELD WIRING



COOLING PERFORMANCE DATA																
AIR CONDITIONER MODEL NO.		GCGD12S21S2														
INDOOR COIL MODEL NO.		FC/MC/PC18														
CONDENSING ENTERING AIR TEMPERATURE	IDCFM	450					600					750				
	ID DB (°F)	80	80	75	80	80	80	80	75	80	80	80	80	75	80	80
	ID WB (°F)	57	62	62	67	72	57	62	62	67	72	57	62	62	67	72
65	T.C.	11.3	11.9	12.1	13.1	14.1	11.7	12.4	12.3	13.2	14.1	12.1	12.9	12.6	13.2	14.1
	S.C.	11.1	10.2	9.1	9.0	7.2	11.5	11.0	9.6	9.2	7.4	11.9	11.8	10.0	9.5	7.5
	KW	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
75	T.C.	11.1	11.7	11.7	12.9	13.8	11.6	12.2	12.0	13.0	13.8	12.0	12.7	12.3	13.1	13.9
	S.C.	10.9	10.4	9.1	9.0	7.2	11.4	11.2	9.6	9.4	7.4	11.8	11.9	10.1	9.8	7.7
	KW	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
85	T.C.	10.9	11.6	11.4	12.6	13.5	11.4	12.1	11.7	12.8	13.6	11.9	12.6	11.9	13.0	13.7
	S.C.	10.7	10.6	9.0	9.0	7.1	11.2	11.3	9.6	9.6	7.5	11.7	12.1	10.3	10.1	7.8
	KW	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
95	T.C.	10.7	11.5	11.1	12.3	13.2	11.2	12.0	11.3	12.6	13.3	11.7	12.4	11.6	12.8	13.4
	S.C.	10.5	10.8	9.0	9.0	7.1	11.0	11.5	9.7	9.7	7.5	11.5	12.2	10.4	10.4	7.9
	KW	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
105	T.C.	10.0	10.9	10.2	11.5	12.5	10.6	11.4	10.5	11.8	12.7	11.1	11.9	10.9	12.0	12.9
	S.C.	9.8	10.3	8.6	8.8	6.9	10.4	10.9	9.2	9.5	7.3	11.0	11.5	9.9	10.2	7.8
	KW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
115	T.C.	9.3	10.3	9.3	10.7	11.9	9.9	10.9	9.7	11.0	12.2	10.5	11.4	10.1	11.3	12.4
	S.C.	9.2	9.9	8.2	8.6	6.7	9.8	10.3	8.8	9.3	7.2	10.4	10.8	9.4	10.0	7.6
	KW	1.1	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
125	T.C.	8.6	9.7	8.4	9.9	11.2	9.3	10.3	8.9	10.2	11.6	9.9	10.9	9.4	10.5	11.9
	S.C.	8.5	9.4	7.8	8.4	6.5	9.2	9.8	8.4	9.1	7.0	9.8	10.1	8.9	9.8	7.5
	KW	1.1	1.1	1.1	1.2	1.2	1.2	1.1	1.1	1.2	1.2	1.2	1.2	1.1	1.2	1.2
NOTE: ALL CAPACITIES INCLUDE INDOOR FAN HEAT AT 1250 BTUH/1000 CFM.																

Multipliers for determining the performance with other indoor sections.

NOTE: For dry bulb temperatures different than those listed (between 73-87 F), sensible capacity increases by 1060 BTUH per 1000 CFM per degree above the listed temperature and decreases by 1060 BTUH per 1000 CFM per degree below the listed temperature.

Air Handler	Coil	T.C.	S.C.	KW
–	HC18	1.00	1.00	1.00
–	UC18	1.00	1.00	1.00
AHP18	–	0.98	0.97	0.98

COOLING PERFORMANCE DATA																
AIR CONDITIONER MODEL NO.		GCGD18S21S2														
INDOOR COIL MODEL NO.		FC/MC/PC18														
CONDENSING ENTERING AIR TEMPERATURE	IDCFM	450					600					750				
	ID DB (°F)	80	80	75	80	80	80	80	75	80	80	80	80	75	80	80
	ID WB (°F)	57	62	62	67	72	57	62	62	67	72	57	62	62	67	72
65	T.C.	15.4	17.1	16.7	18.1	18.0	16.2	17.6	17.2	18.2	18.0	17.0	18.2	17.6	18.3	18.0
	S.C.	15.2	13.4	11.4	11.3	8.6	16.0	14.7	12.6	12.0	9.0	16.8	16.0	13.8	12.7	9.5
	KW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
75	T.C.	14.9	16.6	16.3	17.7	18.0	15.9	17.3	16.8	17.9	18.1	16.9	18.0	17.3	18.2	18.2
	S.C.	14.7	13.4	11.3	11.1	8.5	15.7	14.9	12.7	12.1	9.2	16.7	16.4	14.1	13.1	9.8
	KW	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85	T.C.	14.4	16.1	15.8	17.3	18.0	15.6	17.0	16.3	17.7	18.2	16.8	17.8	16.9	18.1	18.4
	S.C.	14.3	13.5	11.2	11.0	8.5	15.5	15.2	12.8	12.3	9.3	16.6	16.9	14.4	13.6	10.2
	KW	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
95	T.C.	13.9	15.7	15.4	16.8	17.9	15.3	16.6	15.9	17.4	18.2	16.7	17.5	16.5	18.0	18.5
	S.C.	13.8	13.5	11.1	10.8	8.5	15.2	15.4	12.9	12.4	9.5	16.5	17.3	14.7	14.0	10.5
	KW	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
105	T.C.	13.2	14.6	14.2	15.9	17.2	14.6	15.7	14.9	16.5	17.5	16.0	16.8	15.5	17.1	17.8
	S.C.	13.1	13.1	10.6	10.6	8.3	14.4	14.8	12.4	12.3	9.3	15.8	16.4	14.2	13.9	10.4
	KW	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
115	T.C.	12.5	13.6	13.1	15.0	16.5	13.9	14.9	13.8	15.6	16.8	15.2	16.2	14.6	16.2	17.2
	S.C.	12.4	12.6	10.1	10.3	8.1	13.7	14.1	11.9	12.1	9.2	15.1	15.7	13.7	13.8	10.2
	KW	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
125	T.C.	11.8	12.6	12.0	14.2	15.7	13.2	14.1	12.8	14.8	16.1	14.5	15.5	13.6	15.3	16.5
	S.C.	11.7	12.2	9.6	10.1	7.9	13.0	13.5	11.5	11.9	9.0	14.4	14.9	13.3	13.8	10.1
	KW	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8

NOTE: ALL CAPACITIES INCLUDE INDOOR FAN HEAT AT 1250 BTUH/1000 CFM.

Multipliers for determining the performance with other indoor sections.

NOTE: For dry bulb temperatures different than those listed (between 73-87 F), sensible capacity increases by 1060 BTUH per 1000 CFM per degree above the listed temperature and decreases by 1060 BTUH per 1000 CFM per degree below the listed temperature.

Air Handler	Coil	T.C.	S.C.	KW
–	FC/MC/PC/UC24	1.00	1.00	1.00
–	HC18	1.00	1.00	1.00
–	UC18	1.00	1.00	1.00
AHP18	–	1.00	1.00	1.00
AHP24	–	1.00	1.00	1.00
F4FP024	–	1.00	1.00	1.00
MA08B	FC/MC18B	1.00	1.00	1.00
MA08B	FC/MC24B	1.00	1.00	1.00

COOLING PERFORMANCE DATA																
AIR CONDITIONER MODEL NO.		GCGD24S21S2														
INDOOR COIL MODEL NO.		FC/MC/PC36														
CONDENSING ENTERING AIR TEMPERATURE	IDCFM	600					800					1000				
	ID DB (°F)	80	80	75	80	80	80	80	75	80	80	80	80	75	80	80
	ID WB (°F)	57	62	62	67	72	57	62	62	67	72	57	62	62	67	72
75	T.C.	21.5	24.0	23.5	25.4	26.2	22.7	24.9	24.2	25.8	26.4	23.9	25.8	24.9	26.2	26.7
	S.C.	21.3	19.0	16.1	15.7	12.2	22.5	21.5	17.8	17.3	12.9	23.7	24.1	19.5	18.9	13.6
	KW	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
85	T.C.	20.6	23.0	22.5	24.7	26.0	22.1	24.1	23.3	25.3	26.3	23.5	25.2	24.1	25.8	26.6
	S.C.	20.4	18.7	15.7	15.5	12.1	21.9	21.4	17.6	17.3	13.0	23.3	24.0	19.5	19.1	13.9
	KW	1.4	1.4	1.4	1.4	1.5	1.4	1.4	1.4	1.5	1.5	1.4	1.4	1.4	1.5	1.5
95	T.C.	19.7	22.0	21.4	23.9	25.7	21.4	23.3	22.4	24.7	26.1	23.2	24.7	23.3	25.5	26.5
	S.C.	19.5	18.3	15.3	15.3	12.0	21.2	21.2	17.5	17.3	13.1	22.9	24.0	19.6	19.4	14.2
	KW	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
105	T.C.	18.8	21.0	20.4	23.2	25.5	20.8	22.5	21.4	24.2	26.0	22.8	24.1	22.5	25.2	26.4
	S.C.	18.6	18.0	14.9	15.1	11.9	20.6	21.0	17.3	17.3	13.2	22.6	24.0	19.7	19.6	14.5
	KW	1.7	1.7	1.7	1.7	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.7	1.7	1.8	1.8
115	T.C.	17.9	19.5	18.8	21.7	24.0	19.8	21.2	19.9	22.6	24.5	21.7	22.9	21.0	23.6	25.0
	S.C.	17.8	17.4	14.2	14.6	11.5	19.7	19.9	16.6	16.9	12.9	21.6	22.5	19.1	19.2	14.4
	KW	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	2.0	2.0	2.0	2.0	1.9	2.0	2.0
125	T.C.	17.1	18.2	17.3	20.2	22.5	18.9	20.0	18.4	21.1	23.1	20.8	21.8	19.5	22.0	23.6
	S.C.	16.9	16.7	13.5	14.0	11.1	18.8	18.9	16.0	16.4	12.6	20.6	21.0	18.5	18.8	14.2
	KW	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.1	2.2	2.2

NOTE: ALL CAPACITIES INCLUDE INDOOR FAN HEAT AT 1250 BTUH/1000 CFM.

Multipliers for determining the performance with other indoor sections.

NOTE: For dry bulb temperatures different than those listed (between 73-87 F), sensible capacity increases by 1060 BTUH per 1000 CFM per degree above the listed temperature and decreases by 1060 BTUH per 1000 CFM per degree below the listed temperature.

Air Handler	Coil	T.C.	S.C.	KW
–	FC/MC/PC32	1.00	1.00	1.00
–	FC/MC/PC35	1.00	1.00	1.00
–	FC/MC/PC37	1.00	1.00	1.00
–	FC/MC/PC43	1.00	1.00	1.00
–	HC30	1.00	1.00	1.00
–	HC36	1.00	1.00	1.00
–	HC42	1.00	1.00	1.00
–	UC36	1.00	1.00	1.00
AHP30	–	1.00	1.00	1.00
F4FP036	–	1.00	1.00	1.00
MA08B	FC/MC35B	1.00	1.00	1.00
MA08B	FC/MC36B	1.00	1.00	1.00
MA08B	FC/MC43B	1.00	1.00	1.00

COOLING PERFORMANCE DATA																
AIR CONDITIONER MODEL NO.			GCCD30S21S2													
INDOOR COIL MODEL NO.			FC/MC/PC35													
CONDENSING ENTERING AIR TEMPERATURE	IDCFM	800					1000					1200				
	ID DB (°F)	80	80	75	80	80	80	80	75	80	80	80	80	75	80	80
	ID WB (°F)	57	62	62	67	72	57	62	62	67	72	57	62	62	67	72
65	T.C.	27.8	29.9	29.6	30.6	31.8	29.2	30.1	29.7	30.8	31.8	30.6	30.4	29.8	31.1	31.8
	S.C.	27.2	24.5	20.5	19.0	14.8	28.2	26.1	21.6	20.0	15.4	29.1	27.7	22.6	21.0	15.9
	KW	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.7
75	T.C.	26.2	28.2	27.9	29.7	31.2	28.0	28.9	28.2	30.0	31.2	29.9	29.5	28.6	30.3	31.2
	S.C.	25.7	23.9	20.0	19.1	14.9	27.0	25.8	21.5	20.5	15.7	28.3	27.6	22.9	21.8	16.5
	KW	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
85	T.C.	24.6	26.5	26.1	28.8	30.5	26.9	27.6	26.7	29.2	30.6	29.2	28.6	27.3	29.5	30.6
	S.C.	24.1	23.3	19.4	19.2	14.9	25.8	25.4	21.4	20.9	16.0	27.4	27.5	23.3	22.7	17.1
	KW	1.9	1.9	1.9	2.0	2.0	1.9	1.9	1.9	2.0	2.0	2.0	2.0	1.9	2.0	2.0
95	T.C.	23.0	24.9	24.4	28.0	29.8	25.7	26.3	25.3	28.4	29.9	28.4	27.7	26.1	28.7	30.0
	S.C.	22.6	22.8	18.9	19.3	15.0	24.6	25.1	21.3	21.4	16.3	26.6	27.5	23.7	23.5	17.7
	KW	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.2
105	T.C.	21.5	23.1	22.1	25.6	27.7	24.1	24.5	23.0	26.0	28.0	26.6	26.0	23.9	26.4	28.3
	S.C.	21.2	21.3	17.9	18.5	14.3	23.0	23.4	20.0	20.6	15.8	24.8	25.5	22.1	22.7	17.2
	KW	2.3	2.3	2.2	2.3	2.4	2.3	2.3	2.3	2.3	2.4	2.3	2.3	2.3	2.3	2.4
115	T.C.	20.1	21.4	19.8	23.2	25.5	22.5	22.9	20.8	23.7	26.0	24.9	24.3	21.8	24.1	26.5
	S.C.	19.8	19.9	16.9	17.7	13.7	21.4	21.8	18.7	19.8	15.2	23.1	23.6	20.6	22.0	16.8
	KW	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.4	2.5	2.6	2.5	2.5	2.5	2.5	2.6
125	T.C.	18.7	19.7	17.6	20.9	23.4	20.9	21.2	18.6	21.4	24.1	23.1	22.7	19.7	21.9	24.8
	S.C.	18.4	18.6	15.9	16.8	13.1	19.9	20.1	17.5	19.0	14.7	21.4	21.7	19.1	21.3	16.4
	KW	2.6	2.6	2.5	2.6	2.7	2.6	2.6	2.6	2.7	2.7	2.7	2.7	2.6	2.7	2.8
NOTE: ALL CAPACITIES INCLUDE INDOOR FAN HEAT AT 1250 BTUH/1000 CFM.																

Multipliers for determining the performance with other indoor sections.

NOTE: For dry bulb temperatures different than those listed (between 73-87 F), sensible capacity increases by 1060 BTUH per 1000 CFM per degree above the listed temperature and decreases by 1060 BTUH per 1000 CFM per degree below the listed temperature.

Air Handler	Coil	T.C.	S.C.	KW
–	FC/MC/PC32	1.00	1.00	1.00
–	FC/MC/PC37	1.00	1.00	1.00
–	FC/MC/PC43	1.00	1.00	1.00
–	HC36	1.00	1.00	1.00
–	HC42	1.00	1.00	1.00
AHP30	–	1.00	1.00	1.00
AHP36	–	1.00	1.00	1.00
F4FP040	–	1.00	1.00	1.00
MA12B	FC/MC35B	1.00	1.00	1.00
MA12B	FC/MC43B	1.00	1.00	1.00

COOLING PERFORMANCE DATA																
AIR CONDITIONER MODEL NO.			GCGD36S21S2													
INDOOR COIL MODEL NO.			FC/MC/PC43													
CONDENSING ENTERING AIR TEMPERATURE	IDCFM	1000					1200					1400				
	ID DB (°F)	80	80	75	80	80	80	80	75	80	80	80	80	75	80	80
	ID WB (°F)	57	62	62	67	72	57	62	62	67	72	57	62	62	67	72
65	T.C.	35.6	36.1	34.4	37.6	38.5	37.2	37.4	35.5	38.5	38.9	38.9	38.6	36.7	39.4	39.2
	S.C.	32.9	29.4	24.0	23.3	17.9	34.4	31.7	25.4	24.7	18.3	35.9	34.0	26.7	26.2	18.7
	KW	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
75	T.C.	33.6	34.4	32.7	36.1	37.2	36.0	36.0	34.0	37.1	37.6	38.3	37.6	35.2	38.2	38.0
	S.C.	31.2	29.0	23.6	23.0	17.5	33.1	31.4	25.3	24.8	18.1	35.0	33.9	27.0	26.5	18.7
	KW	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3
85	T.C.	31.6	32.6	31.1	34.6	35.9	34.7	34.6	32.4	35.8	36.3	37.8	36.6	33.7	37.0	36.8
	S.C.	29.6	28.6	23.2	22.8	17.1	31.9	31.2	25.3	24.8	17.9	34.2	33.8	27.3	26.8	18.7
	KW	2.3	2.3	2.3	2.4	2.5	2.4	2.4	2.4	2.4	2.5	2.4	2.4	2.4	2.4	2.5
95	T.C.	29.7	30.9	29.4	33.1	34.5	33.4	33.2	30.8	34.4	35.1	37.2	35.6	32.3	35.8	35.6
	S.C.	27.9	28.2	22.8	22.5	16.6	30.6	30.9	25.2	24.8	17.7	33.3	33.7	27.6	27.1	18.7
	KW	2.5	2.5	2.5	2.6	2.7	2.5	2.5	2.5	2.6	2.7	2.6	2.6	2.5	2.6	2.7
105	T.C.	28.0	28.6	26.6	30.1	31.4	30.9	30.7	27.9	31.4	32.0	33.9	32.8	29.2	32.6	32.5
	S.C.	25.9	26.3	21.6	21.5	15.6	28.2	28.6	23.8	23.7	16.7	30.4	30.9	26.0	25.9	17.8
	KW	2.7	2.7	2.7	2.8	2.9	2.7	2.7	2.7	2.8	2.9	2.8	2.8	2.7	2.8	2.9
115	T.C.	26.3	26.4	23.9	27.3	28.4	28.6	28.3	25.1	28.5	28.9	30.8	30.1	26.3	29.6	29.5
	S.C.	24.0	24.5	20.4	20.4	14.6	25.8	26.3	22.4	22.5	15.8	27.6	28.2	24.4	24.6	17.0
	KW	2.9	2.9	2.9	3.0	3.1	2.9	2.9	2.9	3.0	3.1	3.0	3.0	2.9	3.0	3.1
125	T.C.	24.7	24.2	21.2	24.5	25.3	26.2	25.8	22.3	25.5	25.9	27.6	27.4	23.4	26.6	26.5
	S.C.	22.1	22.7	19.3	19.4	13.5	23.4	24.1	21.1	21.4	14.9	24.8	25.5	22.8	23.4	16.2
	KW	3.1	3.1	3.1	3.1	3.2	3.1	3.1	3.1	3.2	3.3	3.2	3.2	3.1	3.2	3.3
NOTE: ALL CAPACITIES INCLUDE INDOOR FAN HEAT AT 1250 BTUH/1000 CFM.																

Multipliers for determining the performance with other indoor sections.

NOTE: For dry bulb temperatures different than those listed (between 73-87 F), sensible capacity increases by 1060 BTUH per 1000 CFM per degree above the listed temperature and decreases by 1060 BTUH per 1000 CFM per degree below the listed temperature.

Air Handler	Coil	T.C.	S.C.	KW
—	FC/MC/PC37A	1.00	1.00	1.00
—	FC/MC/PC/UC48	1.00	1.00	1.00
—	HC42	1.00	1.00	1.00
AHP36	—	1.00	1.00	1.00
F5FP048	—	1.00	1.00	1.00
MA12B	FC/MC43B	1.00	1.00	1.00
MA14D	FC/MC48D	1.00	1.00	1.00

COOLING PERFORMANCE DATA																
AIR CONDITIONER MODEL NO.		GCGD42S21S2														
INDOOR COIL MODEL NO.		FC/MC/PC43														
CONDENSING ENTERING AIR TEMPERATURE	IDCFM	1200					1400					1600				
	ID DB (°F)	80	80	75	80	80	80	80	75	80	80	80	80	75	80	80
	ID WB (°F)	57	62	62	67	72	57	62	62	67	72	57	62	62	67	72
65	T.C.	39.7	42.3	41.6	45.1	46.3	41.4	43.5	42.3	45.7	46.7	43.1	44.7	43.0	46.2	47.0
	S.C.	38.2	34.5	28.8	27.9	21.2	39.3	36.8	30.2	29.0	21.5	40.4	39.0	31.6	30.0	21.9
	KW	2.2	2.3	2.2	2.3	2.3	2.2	2.3	2.3	2.3	2.3	2.2	2.3	2.3	2.3	2.3
75	T.C.	38.1	40.6	39.7	43.7	45.1	40.1	42.0	40.5	44.4	45.5	42.0	43.4	41.3	45.2	45.9
	S.C.	36.8	34.3	28.4	27.9	21.0	38.0	36.5	30.0	29.2	21.6	39.3	38.7	31.7	30.6	22.1
	KW	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6
85	T.C.	36.5	38.9	37.7	42.3	43.9	38.7	40.5	38.6	43.2	44.4	40.9	42.0	39.5	44.1	44.9
	S.C.	35.4	34.1	27.9	27.8	20.8	36.8	36.3	29.8	29.5	21.6	38.2	38.5	31.7	31.2	22.4
	KW	2.7	2.7	2.7	2.7	2.8	2.7	2.7	2.7	2.8	2.8	2.7	2.7	2.7	2.8	2.8
95	T.C.	35.0	37.2	35.8	40.9	42.7	37.4	39.0	36.8	42.0	43.3	39.8	40.7	37.8	43.1	43.8
	S.C.	33.9	33.8	27.4	27.7	20.7	35.5	36.0	29.6	29.8	21.6	37.1	38.2	31.8	31.8	22.6
	KW	2.9	2.9	2.9	3.0	3.1	2.9	2.9	2.9	3.0	3.1	3.0	3.0	3.0	3.0	3.1
105	T.C.	33.7	34.8	32.6	38.0	39.5	35.6	36.4	33.7	38.9	40.1	37.5	38.0	34.8	39.8	40.7
	S.C.	31.9	31.9	26.1	26.5	19.4	33.2	33.7	28.2	28.5	20.6	34.6	35.5	30.3	30.6	21.7
	KW	3.2	3.2	3.2	3.2	3.3	3.2	3.2	3.2	3.2	3.3	3.2	3.2	3.2	3.3	3.3
115	T.C.	32.4	32.5	29.5	35.1	36.5	33.8	33.9	30.7	35.9	37.1	35.1	35.4	31.8	36.6	37.7
	S.C.	29.9	30.0	24.8	25.3	18.2	31.0	31.5	26.8	27.3	19.5	32.1	33.0	28.8	29.4	20.8
	KW	3.4	3.4	3.4	3.5	3.6	3.4	3.4	3.4	3.5	3.6	3.5	3.5	3.4	3.5	3.6
125	T.C.	31.1	30.1	26.4	32.3	33.4	32.0	31.4	27.6	32.8	34.0	32.8	32.8	28.9	33.4	34.7
	S.C.	27.9	28.1	23.5	24.1	17.0	28.8	29.2	25.4	26.1	18.5	29.7	30.4	27.4	28.2	20.0
	KW	3.7	3.6	3.6	3.7	3.8	3.7	3.7	3.6	3.7	3.8	3.7	3.7	3.7	3.7	3.9

NOTE: ALL CAPACITIES INCLUDE INDOOR FAN HEAT AT 1250 BTUH/1000 CFM.

Multipliers for determining the performance with other indoor sections.

NOTE: For dry bulb temperatures different than those listed (between 73-87 F), sensible capacity increases by 1060 BTUH per 1000 CFM per degree above the listed temperature and decreases by 1060 BTUH per 1000 CFM per degree below the listed temperature.

Air Handler	Coil	T.C.	S.C.	KW
–	FC/MC/PC/UC48	1.00	1.00	1.00
–	HC42	1.00	1.00	1.00
AHP42	–	1.00	1.00	1.00
F5FP048	–	1.00	1.00	1.00
MA16C	FC/MC43C	1.00	1.00	1.00
MA14D	FC/MC48D	1.00	1.00	1.00
MA16C	FC/MC48C	1.00	1.00	1.00

COOLING PERFORMANCE DATA																
AIR CONDITIONER MODEL NO.		GCGD48S21S2														
INDOOR COIL MODEL NO.		FC/MC/PC48														
CONDENSING ENTERING AIR TEMPERATURE	IDCFM	1400					1600					1800				
	ID DB (°F)	80	80	75	80	80	80	80	75	80	80	80	80	75	80	80
	ID WB (°F)	57	62	62	67	72	57	62	62	67	72	57	62	62	67	72
65	T.C.	48.0	48.3	46.7	49.9	49.6	49.2	49.1	47.2	50.1	50.1	50.3	49.9	47.6	50.4	50.6
	S.C.	44.6	41.2	33.8	31.6	23.5	45.9	43.6	35.3	32.6	24.3	47.3	46.0	36.9	33.7	25.1
	KW	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6
75	T.C.	45.5	45.5	43.7	47.8	48.4	46.8	46.5	44.3	48.4	49.0	48.1	47.6	45.0	49.0	49.5
	S.C.	42.2	40.0	32.7	31.3	23.3	43.7	42.3	34.5	32.8	24.2	45.2	44.7	36.3	34.2	25.1
	KW	2.7	2.7	2.7	2.8	2.8	2.7	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.9
85	T.C.	43.0	42.6	40.6	45.6	47.3	44.5	44.0	41.5	46.6	47.8	45.9	45.4	42.4	47.6	48.3
	S.C.	39.9	38.8	31.7	31.0	23.1	41.5	41.1	33.7	32.9	24.1	43.1	43.4	35.6	34.8	25.1
	KW	3.0	3.0	3.0	3.1	3.1	3.0	3.0	3.0	3.1	3.1	3.0	3.0	3.0	3.1	3.2
95	T.C.	40.5	39.8	37.6	43.5	46.1	42.1	41.5	38.7	44.8	46.7	43.7	43.1	39.7	46.2	47.2
	S.C.	37.5	37.5	30.7	30.7	22.9	39.3	39.8	32.8	33.0	24.0	41.0	42.1	34.9	35.4	25.1
	KW	3.2	3.2	3.2	3.3	3.4	3.2	3.2	3.2	3.3	3.4	3.3	3.3	3.3	3.4	3.5
105	T.C.	37.7	36.8	34.1	40.1	42.6	39.2	38.3	35.1	41.2	43.1	40.6	39.8	36.2	42.4	43.5
	S.C.	34.8	35.0	29.1	29.4	21.4	36.3	36.9	30.9	31.7	22.7	37.9	38.8	32.7	33.9	23.9
	KW	3.5	3.5	3.5	3.6	3.7	3.5	3.5	3.5	3.6	3.7	3.6	3.6	3.5	3.6	3.7
115	T.C.	35.0	33.9	30.7	36.8	39.2	36.3	35.3	31.7	37.8	39.6	37.5	36.6	32.7	38.7	40.0
	S.C.	32.1	32.5	27.4	28.1	20.0	33.5	34.1	29.0	30.3	21.4	34.9	35.6	30.6	32.6	22.7
	KW	3.7	3.8	3.7	3.8	4.0	3.8	3.8	3.7	3.8	4.0	3.8	3.8	3.8	3.9	4.0
125	T.C.	32.3	31.0	27.4	33.5	35.8	33.4	32.2	28.3	34.3	36.1	34.5	33.5	29.3	35.0	36.5
	S.C.	29.5	30.0	25.8	26.8	18.6	30.7	31.2	27.1	29.0	20.1	31.9	32.5	28.4	31.2	21.5
	KW	4.0	4.0	4.0	4.1	4.2	4.0	4.1	4.0	4.1	4.2	4.1	4.1	4.0	4.1	4.3
NOTE: ALL CAPACITIES INCLUDE INDOOR FAN HEAT AT 1250 BTUH/1000 CFM.																

Multipliers for determining the performance with other indoor sections.

NOTE: For dry bulb temperatures different than those listed (between 73-87 F), sensible capacity increases by 1060 BTUH per 1000 CFM per degree above the listed temperature and decreases by 1060 BTUH per 1000 CFM per degree below the listed temperature.

Air Handler	Coil	T.C.	S.C.	KW
–	UC48	1.00	1.00	1.00
AHP/SHP60	–	1.00	1.01	1.00
F5FP048	–	1.00	1.00	1.00
F5FP060	–	1.00	1.00	1.00
MA16C	FC/MC48C	1.00	1.00	1.00
MA20D	FC/MC48D	1.00	1.00	1.00

COOLING PERFORMANCE DATA

AIR CONDITIONER MODEL NO.		GCGD60S21S2														
INDOOR COIL MODEL NO.		FC/MC62														
CONDENSING ENTERING AIR TEMPERATURE	IDCFM	1750					2000					2250				
	ID DB (°F)	80	80	75	80	80	80	80	75	80	80	80	80	75	80	80
	ID WB (°F)	57	62	62	67	72	57	62	62	67	72	57	62	62	67	72
65	T.C.	57.5	58.5	57.1	62.2	60.7	59.2	60.1	58.2	63.4	62.8	61.0	61.6	59.3	64.5	64.9
	S.C.	54.4	51.6	42.7	41.3	29.2	55.9	54.9	45.2	43.3	30.4	57.3	58.1	47.6	45.4	31.6
	KW	2.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.1	3.0	3.0	3.0	3.0	3.1
75	T.C.	55.4	56.6	54.6	60.1	59.4	57.4	58.3	55.7	61.2	60.1	59.4	60.0	56.8	62.3	60.8
	S.C.	52.4	50.5	41.7	40.7	28.8	53.9	53.4	44.2	43.0	30.0	55.5	56.2	46.7	45.3	31.2
	KW	3.3	3.3	3.3	3.4	3.5	3.4	3.4	3.4	3.4	3.5	3.4	3.4	3.4	3.4	3.5
85	T.C.	53.3	54.7	52.1	58.0	58.1	55.5	56.6	53.1	59.0	57.3	57.7	58.4	54.2	60.1	56.6
	S.C.	50.3	49.4	40.6	40.1	28.4	52.0	51.9	43.2	42.6	29.6	53.7	54.4	45.8	45.1	30.8
	KW	3.7	3.7	3.7	3.8	3.9	3.8	3.8	3.7	3.8	3.9	3.8	3.8	3.8	3.8	3.9
95	T.C.	51.3	52.7	49.6	56.0	56.7	53.7	54.8	50.6	56.9	54.6	56.1	56.9	51.6	57.8	52.5
	S.C.	48.2	48.3	39.5	39.6	28.0	50.0	50.4	42.2	42.3	29.2	51.8	52.6	44.9	45.0	30.4
	KW	4.1	4.1	4.1	4.2	4.3	4.2	4.1	4.1	4.2	4.3	4.2	4.2	4.2	4.3	4.4
105	T.C.	49.1	49.5	45.8	51.8	52.6	51.3	51.4	46.8	52.7	50.5	53.6	53.2	47.8	53.6	48.4
	S.C.	45.2	45.4	37.8	38.0	26.8	46.9	47.3	40.3	40.6	28.1	48.5	49.2	42.8	43.3	29.4
	KW	4.6	4.6	4.6	4.7	4.9	4.7	4.7	4.7	4.7	4.9	4.7	4.7	4.7	4.8	4.9
115	T.C.	47.1	46.4	42.2	47.8	48.5	49.1	48.1	43.2	48.7	46.5	51.1	49.7	44.2	49.5	44.5
	S.C.	42.3	42.6	36.2	36.4	25.8	43.8	44.3	38.5	39.0	27.1	45.3	45.9	40.7	41.6	28.5
	KW	5.2	5.2	5.1	5.2	5.4	5.2	5.2	5.2	5.3	5.4	5.2	5.2	5.2	5.3	5.4
125	T.C.	45.0	43.3	38.6	43.8	44.5	46.9	44.8	39.6	44.6	42.5	48.7	46.2	40.5	45.4	40.6
	S.C.	39.4	39.9	34.5	34.9	24.7	40.8	41.2	36.6	37.4	26.1	42.1	42.6	38.7	40.0	27.5
	KW	5.7	5.7	5.6	5.7	5.9	5.7	5.7	5.7	5.8	5.9	5.7	5.7	5.7	5.8	5.9

NOTE: ALL CAPACITIES INCLUDE INDOOR FAN HEAT AT 1250 BTUH/1000 CFM.

Multipliers for determining the performance with other indoor sections.

NOTE: For dry bulb temperatures different than those listed (between 73-87 F), sensible capacity increases by 1060 BTUH per 1000 CFM per degree above the listed temperature and decreases by 1060 BTUH per 1000 CFM per degree below the listed temperature.

Air Handler	Coil	T.C.	S.C.	KW
MA20D	FC/MC62D	1.00	1.01	1.00