

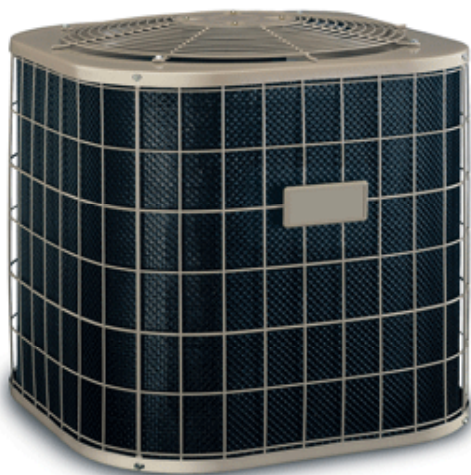
TECHNICAL GUIDE

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SPLIT-SYSTEM HEAT PUMP

13 SEER – R-22

MODELS:
GHGD18 THRU 60
(1.5 THRU 5 NOMINAL TONS, 1 PHASE)



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

Visit us on the web at www.york.com

Additional rating information can be found at www.ahridirectory.org

DESCRIPTION

The heat pump condensing unit is the outdoor part of a versatile system of heating and 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 copper tubing and enhanced aluminum fins for increased efficiency and corrosion protection.
- **PROTECTED COMPRESSOR** - The compressor is internally protected against high pressure, temperature, and externally by a factory installed high pressure switch. 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

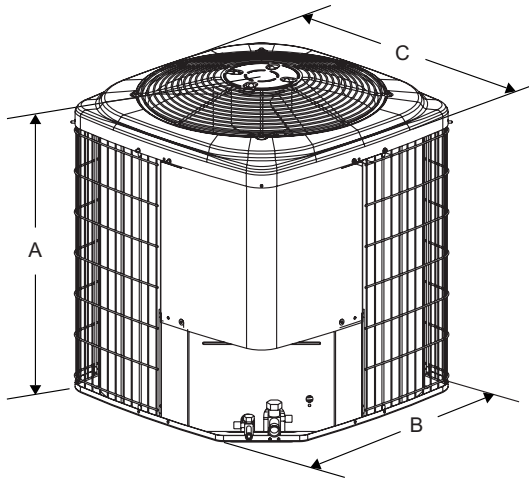
MODEL		GHGD18 S21S1	GHGD24 S21S1	GHGD30 S21S1	GHGD36 S21S1	GHGD42 S21S1	GHGD48 S21S1	GHGD60 S21S1
Unit Supply Voltage		208-230V, 1 ϕ , 60Hz						
Normal Voltage Range ¹		187 to 252						
Minimum Circuit Ampacity		9.9	13.1	17.7	19.8	24.9	30.3	38.3
Max. Overcurrent Device Amps ²		15	20	30	30	40	50	60
Min. Overcurrent Device Amps ³		15	15	20	20	25	35	40
Compressor Type		Recip	Recip	Recip	Recip	Recip	Scroll	Scroll
Compressor Amps	Rated Load	7.6	9.9	13.1	14.6	18.7	23.0	29.5
	Locked Rotor	36	54	61	78	78	115	150
Crankcase Heater		Yes	Yes	Yes	Yes	Yes	No	No
Fan Motor Amps	Rated Load	0.5	1.5	1.4	1.5	1.5	1.5	1.5
Fan Diameter Inches		24	24	24	24	24	24	24
Fan Motor	Rated HP	1/15	1/10	1/4	1/4	1/4	1/4	1/4
	Nominal RPM	850	825	1100	850	850	850	850
	Nominal CFM	2050	2250	3700	3700	3600	3450	3600
Coil	Face Area Sq. Ft.	15.72	18.34	20.96	23.58	23.58	24.00	27.00
	Rows Deep	1	1	1	1	1	2	2
	Fin / Inches	22	22	22	22	22	22	22
Liquid Line Set OD (Field Installed)		3/8	3/8	3/8	3/8	3/8	3/8	3/8
Vapor Line Set OD (Field Installed)		3/4	3/4	3/4	7/8	7/8	7/8	1-1/8
Unit Charge (Lbs. - Oz.) ⁴		7 - 3	7 - 7	8 - 12	9 - 1	11 - 14	13 - 4	15 - 5
Charge Per Foot, Oz.		0.68	0.68	0.68	0.70	0.70	0.70	0.76
Operating Weight Lbs.		172	184	196	208	208	275	280

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.

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

1. Including Fan Guard.

* Adapter fitting required for 1-1/8" line set.

Additional R-22 Charge / Orifice Size for Various Matched Systems							
Outdoor Unit	GHGD18 S21S1	GHGD24 S21S1	GHGD30 S21S1	GHGD36 S21S1	GHGD42 S21S1	GHGD48 S21S1	GHGD60 S21S1
Required Orifice or TXV ^{1,2}	2A	2A	2A	2A	2C	2C	2C
Factory Charge, lbs-oz	7 - 3	7 - 7	8 - 12	9 - 1	11 - 14	13 - 4	15 - 5
Indoor Coil ^{3,4}	Additional Charge, Oz						
FC/MC/PC/UC18A2A	0	-	-	-	-	-	-
FC/MC/PC/UC18B2A	0	-	-	-	-	-	-
FC/MC/PC/UC24A2A	0	0	-	-	-	-	-
FC/MC/PC/UC24B2A	0	0	-	-	-	-	-
FC/MC/PC/UC30A2A	0	0	-	-	-	-	-
FC/MC/PC/UC30B2A	0	0	-	-	-	-	-
FC/MC/PC/UC32A2A	-	5	0	-	-	-	-
FC/MC/PC/UC35B2A	-	5	0	-	-	-	-
FC/MC/PC/UC35C2A	-	5	0	-	-	-	-
FC/MC/PC/UC37A2A	-	-	0	0	-	-	-
FC/MC/PC/UC43C2C	-	-	-	-	-	-	-
FC/MC/PC/UC48C2C	-	-	-	-	0	-	-
FC/MC/PC/UC48D2C	-	-	-	-	0	-	-
FC/PC/UC60C2C	-	-	-	-	2	0	-
FC/MC/PC/UC60D2C	-	-	-	-	2	0	-
FC/MC62D2C	-	-	-	-	-	2	0
HC18A2A	0	-	-	-	-	-	-
HC30A2A	-	0	-	-	-	-	-
HC36B2A	-	5	0	-	-	-	-
HC60C2C	-	-	-	-	2	0	-
HD24A2A	-	4	-	-	-	-	-
HD36B2A	-	-	0	-	-	-	-
HD60D2C	-	-	-	-	2	0	-
MH30S2A	-	6	-	-	-	-	-
AHP18B2A	0	-	-	-	-	-	-
AHP24B2A	0	0	-	-	-	-	-
AHP30B2A	-	5	0	-	-	-	-
AHP36C2A	-	-	0	0	-	-	-
AHP48D2C	-	-	-	-	2	0	-
AHP60D2C	-	-	-	-	2	0	-
FC/MC/PC/UC18A3X	2A + 0	-	-	-	-	-	-
FC/MC/PC/UC18B3X	2A + 0	-	-	-	-	-	-
FC/MC/PC/UC24A3X	2A + 0	2A + 0	-	-	-	-	-
FC/MC/PC/UC24B3X	2A + 0	2A + 0	-	-	-	-	-
FC/MC/PC/UC30A3X	-	2A + 0	-	-	-	-	-
FC/MC/PC/UC30B3X	-	2A + 0	-	-	-	-	-
FC/MC/PC/UC32A3X	-	2A + 5	2A + 0	-	-	-	-
FC/MC/PC/UC35B3X	-	2A + 5	2A + 0	-	-	-	-
FC/MC/PC/UC35C3X	-	2A + 5	2A + 0	-	-	-	-
FC/MC/PC/UC37A3X	-	-	2A + 0	2A + 0	-	-	-
FC/MC/PC/UC43B3X	-	-	2A + 0	2A + 0	-	-	-
FC/MC/PC/UC43C3X	-	-	2A + 0	2A + 0	-	-	-
FC/MC/PC/UC48C3X	-	-	-	2A + 3	2C + 0	-	-
FC/MC/PC/UC48D3X	-	-	-	2A + 3	2C + 0	-	-
FC/PC/UC60C3X	-	-	-	2A + 5	2C + 2	2C + 0	-
FC/MC/PC/UC60D3X	-	-	-	2A + 5	2C + 2	2C + 0	-
FC/PC62D3X	-	-	-	-	-	2C + 2	2C + 0

For Notes See Page 4.

Additional R-22 Charge / Orifice Size for Various Matched Systems (Continued)							
Outdoor Unit	GHGD18 S21S1	GHGD24 S21S1	GHGD30 S21S1	GHGD36 S21S1	GHGD42 S21S1	GHGD48 S21S1	GHGD60 S21S1
Required Orifice or TXV ^{1,2}	2A	2A	2A	2A	2C	2C	2C
Factory Charge, lbs-oz	7 - 3	7 - 7	8 - 12	9 - 1	11 - 14	13 - 4	15 - 5
Indoor Coil ^{3,4}	Additional Charge, Oz						
HC18A3X	2A + 0	-	-	-	-	-	-
HC30A3X	-	2A + 0	-	-	-	-	-
HC36B3X	-	2A + 5	2A + 0	-	-	-	-
HC42C3X	-	-	2A + 0	2A + 0	-	-	-
HC60C3X	-	-	-	2A + 5	2C + 2	2C + 0	-
HD24A3X	-	2A + 4	-	-	-	-	-
HD36B3X	-	-	2A + 0	-	-	-	-
HD48C3X	-	-	-	2A + 3	-	-	-
HD60D3X	-	-	-	2A + 5	2C + 2	2C + 0	-
MH24S59	-	2A + 6	2A + 0	-	-	-	-
MH30S65	-	2A + 6	2A + 0	-	-	-	-
AHP18B3X	2A + 0	-	-	-	-	-	-
AHP24B3X	2A + 0	2A + 0	-	-	-	-	-
AHP30B3X	-	2A + 5	2A + 0	-	-	-	-
AHP36C3X	-	-	2A + 0	2A + 0	-	-	-
AHP42C3X	-	-	-	2A + 0	-	-	-
AHP48D3X	-	-	-	-	2C + 2	2C + 0	-
AHP60D3X	-	-	-	2A + 5	2C + 2	2C + 0	-
F4FP024	0	-	-	-	-	-	-
F4FP030	-	0	-	-	-	-	-
F4FP040	-	-	0	-	-	-	-
F5FP045	-	-	-	2A + 5	2	-	-
F5FP048	-	-	-	2A + 3	0	-	-
F5FP060	-	-	-	2A + 5	2	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 interconnecting 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. Permanently mark the unit nameplate with the total system charge. Total System Charge = Base Charge (as shipped) + adder for evaporator + adder for line set.

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 HP WITH MA								
GHGD18S21S1	MA08B	17	FC/MC18B	600	18.0	12.9	13.00	11.00
	MA08B	17	FC/MC24B	600	18.0	12.9	13.00	11.00
	MA08B	17	FC/MC30B	600	18.0	12.9	13.00	11.00
GHGD24S21S1	MA08B	17	FC/MC24B	800	23.0	16.8	13.00	11.00
	MA08B	17	FC/MC30B	800	23.0	16.8	13.00	11.00
	MA08B	17	FC/MC35B	800	23.0	16.8	13.00	11.00
GHGD30S21S1	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
GHGD36S21S1	MA12B	17	FC/MC43B	1200	35.0	25.6	13.00	11.00
	MA14D	24	FC/MC48D	1200	35.0	25.6	13.00	11.00
	MA14D	24	FC/MC60D	1200	35.0	25.6	13.00	11.00
GHGD42S21S1	MA14D	24	FC/MC48D	1400	40.0	28.8	13.00	11.00
	MA16C	21	FC/MC48C	1400	40.0	28.8	13.00	11.00
	MA14D	24	FC/MC60D	1400	40.0	28.8	13.00	11.00
	MA16C	21	FC60C	1400	40.0	28.8	13.00	11.00
GHGD48S21S1	MA16C	21	FC60C	1600	45.0	33.2	13.00	11.00
	MA20D	24	FC/MC60D	1600	45.0	33.2	13.00	11.00
	MA20D	24	FC/MC62D	1600	45.0	33.2	13.00	11.00
GHGD60S21S1	MA20D	24	FC/MC62D	1800	55.0	40.0	13.00	11.00
13 SEER HP WITH AHP / SHP / F*FP								
GHGD18S21S1	AHP18	17	-	650	18.0	12.9	13.00	11.00
	AHP24	17	-	655	18.0	13.0	13.00	11.00
	F4FP024	17	-	655	18.0	13.0	13.00	11.00
GHGD24S21S1	AHP24	17	-	830	23.0	16.9	13.00	11.00
	AHP30	17	-	795	23.0	16.8	13.00	11.00
	F4FP030	17	-	795	23.0	16.8	13.00	11.00
GHGD30S21S1	AHP30	17	-	1015	29.0	21.2	13.00	11.00
	AHP36	21	-	1040	29.0	21.2	13.00	11.00
	F4FP040	21	-	1040	29.0	21.2	13.00	11.00
GHGD36S21S1	AHP36	21	-	1235	35.0	25.6	13.00	11.00
	AHP42	21	-	1255	35.0	25.6	13.00	11.00
	AHP/SHP60	24	-	1270	35.0	26.2	14.00	12.00
	F4FP045	24	-	1200	35.0	25.6	13.00	11.00
	F5FP048	24	-	1200	35.0	26.2	14.00	12.00
	F5FP060	24	-	1200	35.0	26.2	14.00	12.00
GHGD42S21S1	AHP/SHP48	24	-	1400	40.0	29.0	13.00	11.00
	AHP/SHP60	24	-	1400	41.0	29.4	13.85	11.00
	F4FP045	24	-	1400	40.0	29.0	13.00	11.00
	F5FP048	24	-	1400	41.0	29.4	13.85	11.00
	F5FP060	24	-	1400	41.0	29.4	13.85	11.00
GHGD48S21S1	AHP/SHP48	24	-	1600	45.0	33.2	13.00	11.00
	AHP/SHP60	24	-	1600	46.0	33.6	13.30	11.00
	F5FP060	24	-	1600	46.0	33.6	13.30	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.		
GHGD18S21S1	450 - 750	14,17	FC/MC/PC/UC18	600	18.0	12.9	13.00	11.00
	450 - 750	14,17	FC/MC/PC/UC24	600	18.0	12.9	13.00	11.00
	450 - 750	14,17	FC/MC/PC/UC30	600	18.0	12.9	13.00	11.00
	450 - 750	14	HC18	600	18.0	12.9	13.00	11.00
GHGD24S21S1	600 - 1000	14,17	FC/MC/PC/UC24	800	23.0	16.8	13.00	11.00
	600 - 1000	14,17	FC/MC/PC/UC30	800	23.0	16.8	13.00	11.00
	600 - 1000	14	FC/MC/PC/UC32	800	23.0	16.8	13.00	11.00
	600 - 1000	17,21	FC/MC/PC/UC35	800	23.0	16.8	13.00	11.00
	600 - 1000	14	HC30	800	23.0	16.8	13.00	11.00
	600 - 1000	17	HC36	800	23.0	16.8	13.00	11.00
	600 - 1000	-	HD24	800	23.0	16.8	13.00	11.00
	600 - 1000	19	MH24S	800	23.0	16.8	13.00	11.00
GHGD30S21S1	800 - 1200	14	FC/MC/PC/UC32	1000	29.0	21.2	13.00	11.00
	800 - 1200	17,21	FC/MC/PC/UC35	1000	29.0	21.2	13.00	11.00
	800 - 1200	14	FC/MC/PC/UC37	1000	29.0	21.2	13.00	11.00
	800 - 1200	17,21	FC/MC/PC/UC43	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
	800 - 1200	-	HD36	1000	29.0	21.2	13.00	11.00
	800 - 1200	19	MH24S	1000	29.0	21.2	13.00	11.00
GHGD36S21S1	1000 - 1400	14	FC/MC/PC/UC37	1200	35.0	25.6	13.00	11.00
	1000 - 1400	17,21	FC/MC/PC/UC43	1200	35.0	25.6	13.00	11.00
	1000 - 1400	21,24	FC/MC/PC/UC48	1200	35.0	25.6	13.00	11.00
	1000 - 1400	21,24	FC/MC/PC/UC60	1200	35.0	25.6	13.00	11.00
	1000 - 1400	21	HC42	1200	35.0	25.6	13.00	11.00
	1000 - 1400	24	HC60	1200	35.0	25.6	13.00	11.00
	1000 - 1400	-	HD48	1200	35.0	25.6	13.00	11.00
	1000 - 1400	-	HD60	1200	35.0	25.6	13.00	11.00
GHGD42S21S1	1200 - 1600	21,24	FC/MC/PC/UC48	1400	40.0	28.8	13.00	11.00
	1200 - 1600	21,24	FC/MC/PC/UC60	1400	40.0	28.8	13.00	11.00
	1200 - 1600	24	HC60	1400	40.0	28.8	13.00	11.00
	1200 - 1600	-	HD60	1400	40.0	28.8	13.00	11.00
GHGD48S21S1	1400 - 1800	21,24	FC/MC/PC/UC60	1600	45.0	33.2	13.00	11.00
	1400 - 1800	24	FC/MC62	1600	45.0	33.2	13.00	11.00
	1400 - 1800	24	HC60	1600	45.0	33.2	13.00	11.00
	1400 - 1800	-	HD60	1600	45.0	33.2	13.00	11.00
GHGD60S21S1	1600 - 2000	24	FC/MC62	1800	55.0	40.0	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.

HEATING PERFORMANCE - With Air Handler

UNIT MODEL*	AIR HANDLER	COIL ¹ MODEL	ARI HEATING ²						
			47°F			17°F			HSPF
			MBH	COP	KW	MBH	COP	KW	STD
13 SEER HP WITH MA									
GHGD18S21S1	MA08B	FC/MC18B	17.0	3.26	1.54	9.0	2.18	1.23	7.70
	MA08B	FC/MC24B	17.0	3.26	1.54	9.0	2.18	1.23	7.70
	MA08B	FC/MC30B	17.0	3.26	1.54	9.0	2.18	1.23	7.70
GHGD24S21S1	MA08B	FC/MC24B	23.0	3.72	1.82	12.0	2.44	1.47	7.70
	MA08B	FC/MC30B	23.0	3.72	1.82	12.0	2.44	1.47	7.70
	MA08B	FC/MC35B	23.0	3.72	1.82	12.0	2.44	1.47	7.70
GHGD30S21S1	MA12B	FC/MC35B	29.0	3.56	2.40	15.0	2.24	1.96	7.70
	MA12B	FC/MC43B	29.0	3.56	2.40	15.0	2.24	1.96	7.70
GHGD36S21S1	MA12B	FC/MC43B	34.0	3.58	2.78	21.0	2.52	2.39	8.50
	MA14D	FC/MC48D	34.0	3.58	2.78	21.0	2.52	2.39	8.50
	MA14D	FC/MC60D	34.0	3.58	2.78	21.0	2.52	2.39	8.50
GHGD42S21S1	MA14D	FC/MC48D	42.0	3.52	3.45	25.0	2.60	2.81	8.50
	MA16C	FC/MC48C	42.0	3.52	3.45	25.0	2.60	2.81	8.50
	MA14D	FC/MC60D	42.0	3.52	3.45	25.0	2.60	2.81	8.50
	MA16C	FC60C	42.0	3.52	3.45	25.0	2.60	2.81	8.50
GHGD48S21S1	MA16C	FC60C	48.0	3.40	4.13	37.0	2.76	3.97	7.70
	MA20D	FC/MC60D	48.0	3.40	4.13	37.0	2.76	3.97	7.70
	MA20D	FC/MC62D	48.0	3.40	4.13	37.0	2.76	3.97	7.70
GHGD60S21S1	MA20D	FC/MC62D	58.0	3.46	4.91	40.0	2.36	4.90	7.70
13 SEER HP WITH AHP / SHP / F*FP									
GHGD18S21S1	AHP18	-	17.0	3.26	1.54	9.0	2.18	1.23	7.70
	AHP24	-	17.0	3.28	1.52	9.0	2.18	1.22	7.70
	F4FP024	-	17.0	3.26	1.54	9.0	2.18	1.23	7.70
GHGD24S21S1	AHP24	-	23.0	3.74	1.80	12.0	2.46	1.45	7.70
	AHP30	-	23.0	3.74	1.80	12.0	2.44	1.46	7.70
	F4FP030	-	23.0	3.74	1.80	12.0	2.46	1.45	7.70
GHGD30S21S1	AHP30	-	29.0	3.54	2.41	15.0	2.24	1.96	7.65
	AHP36	-	29.0	3.54	2.41	15.0	2.24	1.96	7.65
	F4FP040	-	29.0	3.54	2.41	15.0	2.24	1.96	7.65
GHGD36S21S1	AHP36	-	34.0	3.58	2.78	21.0	2.52	2.39	8.50
	AHP42	-	34.0	3.60	2.76	20.0	2.52	2.37	8.55
	AHP/SHP60	-	33.0	3.74	2.61	20.0	2.62	2.23	8.80
	F4FP045	-	34.0	3.58	2.78	21.0	2.52	2.39	8.50
	F5FP048	-	33.0	3.74	2.61	20.0	2.62	2.23	8.80
	F5FP060	-	33.0	3.74	2.61	20.0	2.62	2.23	8.80
GHGD42S21S1	AHP/SHP48	-	42.0	3.56	3.41	25.0	2.64	2.75	8.60
	AHP/SHP60	-	40.0	3.70	3.20	24.0	2.74	2.58	8.85
	F4FP045	-	42.0	3.56	3.41	25.0	2.64	2.75	8.60
	F5FP048	-	40.0	3.70	3.20	24.0	2.74	2.58	8.85
	F5FP060	-	40.0	3.70	3.20	24.0	2.74	2.58	8.85
GHGD48S21S1	AHP/SHP48	-	48.0	3.40	4.13	37.0	2.74	3.99	7.70
	AHP/SHP60	-	48.0	3.48	3.99	37.0	2.80	3.87	8.00
	F5FP060	-	48.0	3.48	3.99	37.0	2.80	3.87	8.00

1. Rated CFM same as for cooling.

2. Heating MBH based on ARI standards of 70° DB entering indoor air, 72% RH outdoor air with 25 feet of interconnecting piping and no supplemental electric heat operation.

CP equals MBH output divided by (total KW input x 3.412).

HSPF (Heating Seasonal Performance Factor) is the total heating output during a normal annual usage period for heating divided by the total electric power input during the same period.

— = Not Applicable.

ACCESSORIES

Refer to Price Manual for specific model numbers.

Start Assist Kit (2SA067*)

Blower Time Delay - Available to increase efficiency when installed. Installs on indoor section and maintains blower for approximately one minute after cooling thermostat has been satisfied.

Hard Start Kits - Provides required starting torque for use with Thermal Expansion Valve Kit.

Low Temperature Cutout (2LT06700224) - Prevents heat pump operation below -10°F ambient temperature.

Compressor Blanket - Designed to further reduce the normal operating sound.

Add-on Fossil Fuel Control - Interface controls for use with gas, oil furnaces and the heat pump system are available.

Thermal Expansion Valve Kit - 1TVM700 Series TXV kit used to improve system performance.

Outdoor Thermostat (2TD06700124) - Provides additional staging of supplemental electric heat.

Room Thermostats - A wide selection of matching thermostats is available to provide features required for any installation.

2H/1C, manual changeover electronic non-programmable thermostat.

3H/2C, non-programmable digital thermostat.

3H/2C, auto/manual changeover, electronic programmable, 7-day, hardwire thermostat.

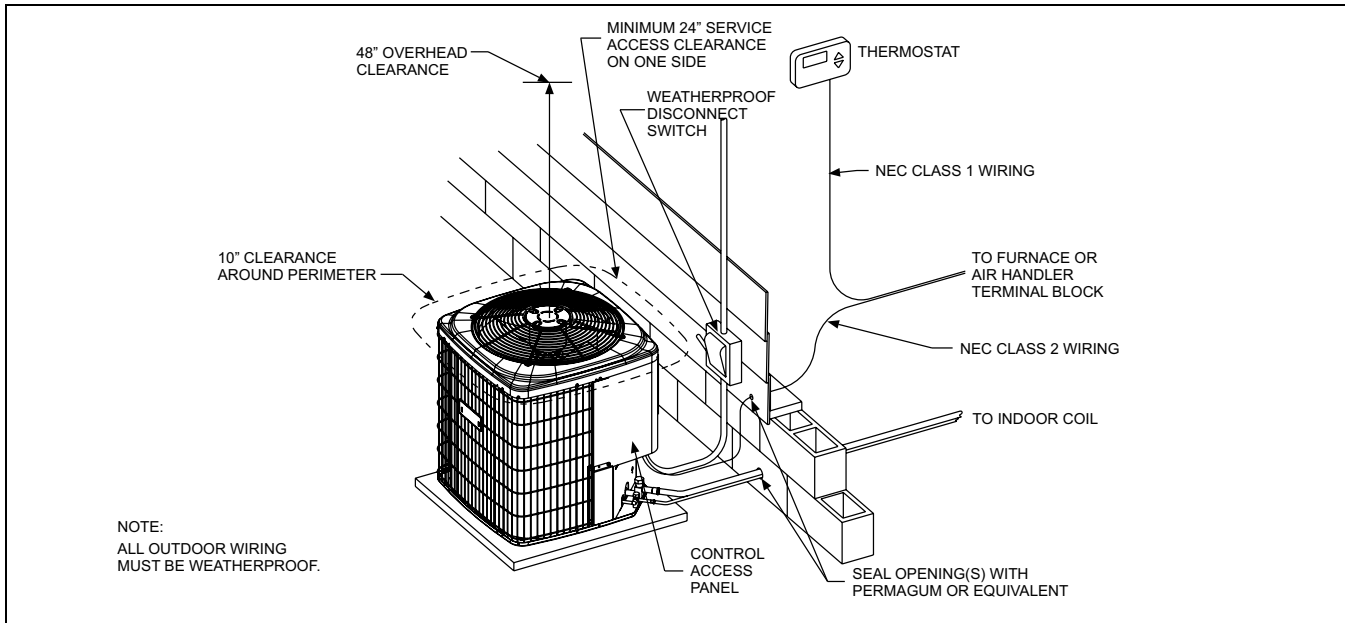
* For the most current accessory information, refer to the price book or consult factory.

SOUND POWER RATINGS

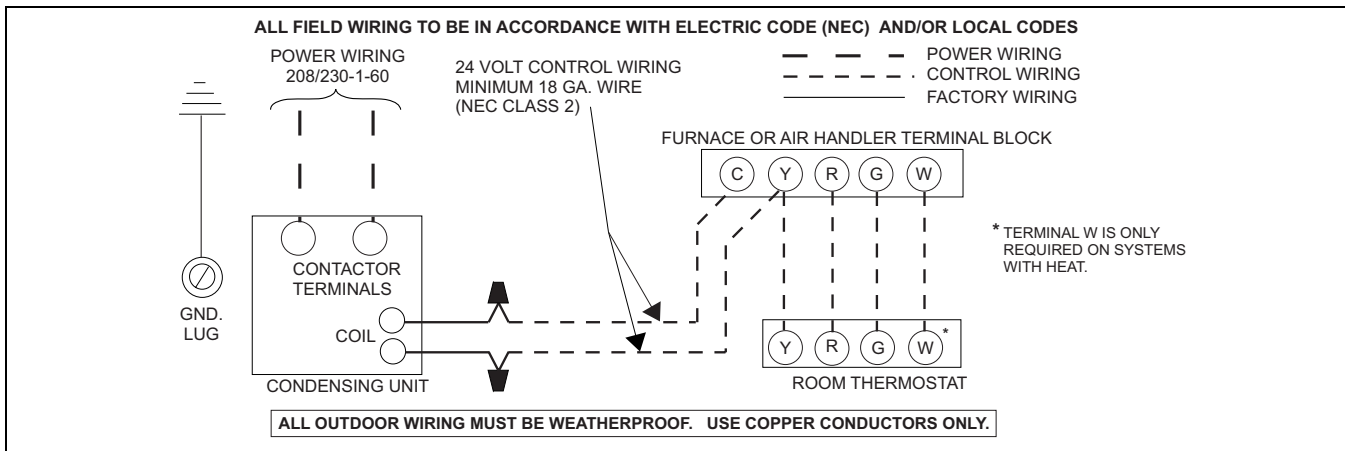
UNIT MODEL	(DBA)*	
	Cooling	Heating
018	TBD	TBD
024	TBD	TBD
030	TBD	TBD
036	TBD	TBD
042	TBD	TBD
048	TBD	TBD
060	TBD	TBD

* Rated in accordance with ARI 270-95 Standards.

TYPICAL INSTALLATION



TYPICAL FIELD WIRING



COOLING PERFORMANCE DATA																
CONDENSING UNIT MODEL NO.		GHD18S21S1														
INDOOR COIL MODEL NO.		AHP18														
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.	16.6	18.5	18.3	20.4	22.0	18.9	20.1	19.8	22.0	24.0	21.2	21.7	21.3	23.6	25.9
	S.C.	13.3	13.3	13.7	13.6	12.7	13.3	13.3	13.5	13.5	13.1	13.3	13.3	13.3	13.3	13.4
	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	1.2
75	T.C.	15.6	17.4	17.2	19.2	20.9	17.8	18.8	18.6	20.7	22.6	20.0	20.2	20.0	22.1	24.3
	S.C.	13.3	13.3	13.3	13.3	12.0	13.3	13.3	13.3	13.3	12.7	13.3	13.3	13.3	13.3	13.3
	KW	1.1	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	1.3
85	T.C.	14.6	16.3	16.2	18.1	19.7	16.7	17.5	17.4	19.3	21.2	18.9	18.7	18.6	20.6	22.7
	S.C.	13.3	13.3	12.8	12.9	11.3	13.3	13.3	13.1	13.1	12.2	13.3	13.3	13.3	13.3	13.2
	KW	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.4
95	T.C.	13.6	15.2	15.1	16.9	18.5	15.7	16.2	16.1	18.0	19.7	17.7	17.2	17.2	19.1	21.0
	S.C.	13.3	13.3	12.4	12.5	10.7	13.3	13.3	12.8	12.9	11.8	13.3	13.3	13.3	13.3	13.0
	KW	1.3	1.3	1.3	1.4	1.4	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.5
105	T.C.	12.9	14.1	14.0	15.7	17.3	14.8	15.2	14.9	16.7	18.3	16.6	16.2	15.8	17.6	19.4
	S.C.	12.9	13.1	11.8	11.9	10.0	13.3	13.2	12.5	12.6	11.2	13.3	13.3	13.3	13.3	12.4
	KW	1.4	1.4	1.4	1.4	1.5	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.6
115	T.C.	12.3	13.0	12.9	14.5	16.1	13.9	14.1	13.6	15.3	16.9	15.4	15.2	14.3	16.1	17.8
	S.C.	12.3	13.0	11.2	11.3	9.3	13.3	13.1	12.2	12.3	10.5	13.3	13.3	13.3	13.3	11.7
	KW	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.5	1.6
125	T.C.	11.7	12.0	11.9	13.3	14.8	13.0	13.1	12.4	14.0	15.5	14.2	14.2	12.9	14.6	16.2
	S.C.	11.7	12.0	10.6	10.7	8.7	13.0	13.1	11.9	12.0	9.8	13.3	13.3	12.9	13.3	11.0
	KW	1.5	1.6	1.6	1.6	1.7	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.6	1.7

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/UC18	1.00	1.00	1.00
–	FC/MC/PC/UC24	1.00	1.00	1.00
–	FC/MC/PC/UC30	1.00	1.00	1.00
–	HC18	1.00	1.00	1.00
AHP24	–	1.00	1.00	1.00
AV24	–	1.00	1.03	0.91
F4FP024	–	1.00	1.00	1.00
MV12B	FC/MC18B	1.00	1.03	0.91
MA08B	FC/MC18B	1.00	1.00	1.00
MV12B	FC/MC24B	1.00	1.03	0.91
MA08B	FC/MC24B	1.00	1.00	1.00
MV12B	FC/MC30B	1.00	1.03	0.91
MA08B	FC/MC30B	1.00	1.00	1.00

COOLING PERFORMANCE DATA																
CONDENSING UNIT MODEL NO.		GHGD24S21S1														
INDOOR COIL MODEL NO.		AHP24														
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
65	T.C.	20.3	23.5	23.6	26.0	28.3	22.8	24.8	24.6	27.1	29.2	25.3	26.1	25.7	28.3	30.2
	S.C.	17.2	17.2	17.7	17.6	15.6	17.2	17.2	17.5	17.4	16.6	17.2	17.2	17.2	17.2	17.7
	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
75	T.C.	19.9	22.3	22.3	24.7	26.8	22.1	23.5	23.3	25.8	27.7	24.2	24.6	24.3	26.8	28.6
	S.C.	17.2	17.2	17.2	17.2	14.9	17.2	17.2	17.2	17.2	15.9	17.2	17.2	17.2	17.2	16.9
	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	1.6
85	T.C.	19.5	21.1	21.0	23.5	25.4	21.3	22.2	22.0	24.4	26.2	23.2	23.2	22.9	25.3	27.1
	S.C.	17.2	17.2	16.8	16.9	14.3	17.2	17.2	17.0	17.1	15.2	17.2	17.2	17.2	17.2	16.1
	KW	1.7	1.7	1.7	1.7	1.8	1.7	1.7	1.7	1.8	1.8	1.7	1.7	1.7	1.8	1.8
95	T.C.	19.0	20.0	19.8	22.2	23.9	20.6	20.8	20.6	23.0	24.7	22.1	21.7	21.5	23.8	25.5
	S.C.	17.2	17.2	16.4	16.6	13.6	17.2	17.2	16.8	16.9	14.4	17.2	17.2	17.2	17.2	15.3
	KW	1.8	1.8	1.8	1.8	1.9	1.8	1.8	1.8	1.9	1.9	1.9	1.8	1.8	1.9	2.0
105	T.C.	17.9	18.6	18.4	20.6	22.3	19.3	19.5	19.0	21.3	22.9	20.7	20.4	19.7	22.0	23.5
	S.C.	17.2	17.2	15.7	15.8	12.8	17.2	17.2	16.5	16.5	13.7	17.2	17.2	17.2	17.2	14.5
	KW	1.9	1.9	1.9	2.0	2.1	2.0	2.0	1.9	2.0	2.1	2.0	2.0	2.0	2.1	2.1
115	T.C.	16.8	17.1	16.9	18.9	20.7	18.1	18.2	17.5	19.6	21.1	19.3	19.2	18.0	20.3	21.5
	S.C.	16.8	17.1	15.0	15.1	12.1	17.2	17.2	16.1	16.2	12.9	17.2	17.2	17.2	17.2	13.8
	KW	2.0	2.0	2.0	2.1	2.2	2.1	2.1	2.1	2.2	2.3	2.2	2.2	2.1	2.2	2.3
125	T.C.	15.7	15.7	15.5	17.3	19.2	16.8	16.8	15.9	17.9	19.4	17.9	17.9	16.3	18.5	19.6
	S.C.	15.7	15.7	14.3	14.4	11.3	16.8	16.8	15.8	15.8	12.2	17.2	17.2	16.3	17.2	13.0
	KW	2.2	2.1	2.1	2.3	2.4	2.3	2.2	2.2	2.3	2.5	2.3	2.3	2.2	2.4	2.5

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
–	FC/MC/PC/UC30	1.00	1.00	1.00
–	FC/MC/PC/UC32	1.00	1.00	1.00
–	FC/MC/PC/UC35	1.00	1.00	1.00
–	HC30	1.00	1.00	1.00
–	HC36	1.00	1.00	1.00
–	HD24	1.00	1.00	1.00
–	MH24S	1.00	1.00	1.00
–	MH30S	1.00	1.00	1.00
AHP30	–	1.00	1.00	1.00
AV24	–	1.02	1.03	0.93
F4FP030	–	1.00	1.00	1.00
MV12B	FC/MC24B	1.01	1.02	0.92
MA08B	FC/MC24B	1.00	1.00	1.00
MV12B	FC/MC30B	1.01	1.02	0.92
MA08B	FC/MC30B	1.00	1.00	1.00
MV12B	FC/MC35B	1.02	1.02	0.93
MA08B	FC/MC35B	1.00	1.00	1.00

COOLING PERFORMANCE DATA																
CONDENSING UNIT MODEL NO.		GHGD30S21S1														
INDOOR COIL MODEL NO.		AHP30														
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.	25.7	27.6	26.2	29.0	32.9	27.1	30.3	28.1	31.3	32.9	28.5	32.9	30.0	33.5	33.0
	S.C.	24.2	24.2	20.1	20.5	20.0	24.2	24.2	21.8	22.4	20.2	24.2	24.2	23.5	24.4	20.3
	KW	1.5	1.6	1.5	1.6	1.7	1.6	1.6	1.6	1.6	1.7	1.6	1.7	1.6	1.7	1.7
75	T.C.	25.2	27.4	26.0	29.2	31.2	26.4	29.1	27.3	30.3	31.8	27.6	30.8	28.5	31.5	32.4
	S.C.	24.2	24.2	20.3	21.1	18.9	24.2	24.2	21.6	22.1	19.3	24.2	24.2	22.9	23.1	19.6
	KW	1.7	1.7	1.7	1.8	1.8	1.7	1.8	1.7	1.8	1.8	1.7	1.8	1.8	1.8	1.8
85	T.C.	24.7	27.3	25.9	29.4	29.6	25.7	28.0	26.5	29.4	30.7	26.7	28.7	27.1	29.4	31.9
	S.C.	24.2	24.2	20.6	21.6	17.8	24.2	24.2	21.4	21.7	18.4	24.2	24.2	22.2	21.8	18.9
	KW	1.9	1.9	1.9	2.0	2.0	1.9	1.9	1.9	2.0	2.0	1.9	1.9	1.9	2.0	2.0
95	T.C.	24.2	27.1	25.7	29.7	27.9	25.0	26.9	25.7	28.5	29.6	25.8	26.6	25.6	27.4	31.4
	S.C.	24.2	24.2	20.8	22.2	16.7	24.2	24.2	21.2	21.3	17.5	24.2	24.2	21.6	20.5	18.2
	KW	2.0	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	2.2
105	T.C.	23.4	25.3	24.5	27.9	26.9	24.2	25.6	24.6	27.2	28.2	25.0	25.9	24.7	26.6	29.4
	S.C.	23.4	24.1	20.6	21.5	16.1	24.2	24.1	21.5	21.6	16.7	24.2	24.2	22.4	21.7	17.3
	KW	2.2	2.2	2.2	2.3	2.3	2.2	2.3	2.2	2.3	2.3	2.2	2.3	2.3	2.3	2.3
115	T.C.	22.6	23.4	23.2	26.1	26.0	23.4	24.3	23.5	25.9	26.7	24.3	25.2	23.9	25.8	27.4
	S.C.	22.6	23.4	20.3	20.7	15.5	23.4	24.1	21.8	21.8	15.9	24.2	24.2	23.3	22.9	16.3
	KW	2.3	2.4	2.4	2.5	2.4	2.4	2.4	2.4	2.5	2.5	2.4	2.4	2.4	2.5	2.5
125	T.C.	21.8	21.6	22.0	24.3	25.0	22.6	23.0	22.5	24.7	25.2	23.5	24.4	23.0	25.0	25.4
	S.C.	21.8	21.6	20.0	20.0	14.9	22.6	23.0	22.1	22.1	15.1	23.5	24.2	23.0	24.2	15.3
	KW	2.5	2.5	2.5	2.6	2.6	2.5	2.6	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.7

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/UC32	1.00	1.00	1.00
–	FC/MC/PC/UC35	1.00	1.00	1.00
–	FC/MC/PC/UC37	1.00	1.00	1.00
–	FC/MC/PC/UC43	1.00	1.00	1.00
–	HC36	1.00	1.00	1.00
–	HC42	1.00	1.00	1.00
–	HD36	1.00	1.00	1.00
–	MH24S	1.00	1.00	1.00
–	MH30S	1.00	1.00	1.00
AHP36	–	1.00	1.00	1.00
AV36	–	1.02	1.03	0.93
F4FP040	–	1.00	1.00	1.00
MV12B	FC/MC35B	1.02	1.02	0.93
MV16C	FC/MC35C	1.02	1.03	0.93
MA12B	FC/MC35B	1.00	1.00	1.00
MV12B	FC/MC43B	1.02	1.02	0.93
MV16C	FC/MC43C	1.02	1.03	0.93
MA12B	FC/MC43B	1.00	1.00	1.00

COOLING PERFORMANCE DATA																
CONDENSING UNIT MODEL NO.		GHGD36S21S1														
INDOOR COIL MODEL NO.		AHP36														
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.	35.0	37.8	37.5	41.8	46.7	37.1	39.1	38.7	43.0	47.4	39.1	40.4	39.9	44.2	48.1
	S.C.	33.9	31.5	26.9	26.8	22.0	36.0	34.7	29.4	29.0	23.8	38.1	37.9	31.8	31.3	25.5
	KW	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
75	T.C.	33.5	35.8	35.6	39.6	44.3	35.4	37.0	36.8	40.7	45.2	37.4	38.2	37.9	41.8	46.0
	S.C.	32.4	30.5	26.0	26.0	21.2	34.4	33.5	28.4	28.2	22.9	36.4	36.5	30.8	30.5	24.6
	KW	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	2.2
85	T.C.	32.0	33.8	33.8	37.4	41.9	33.8	34.9	34.9	38.4	42.9	35.6	36.0	36.0	39.4	43.8
	S.C.	31.0	29.5	25.1	25.1	20.3	32.8	32.3	27.5	27.4	22.0	34.7	35.1	29.8	29.8	23.7
	KW	2.3	2.3	2.3	2.3	2.4	2.3	2.3	2.3	2.3	2.4	2.3	2.3	2.3	2.3	2.4
95	T.C.	30.5	31.8	31.9	35.1	39.6	32.1	32.8	33.0	36.1	40.6	33.8	33.8	34.1	37.0	41.7
	S.C.	29.5	28.4	24.3	24.2	19.5	31.2	31.1	26.6	26.6	21.2	33.0	33.7	28.8	29.0	22.8
	KW	2.4	2.5	2.5	2.5	2.6	2.5	2.5	2.5	2.5	2.6	2.5	2.5	2.5	2.5	2.6
105	T.C.	29.0	29.9	29.8	32.9	36.9	30.5	30.8	30.8	33.7	37.8	31.9	31.7	31.7	34.5	38.7
	S.C.	28.1	27.5	23.4	23.3	18.6	29.6	29.7	25.7	25.7	20.2	31.2	31.9	28.0	28.0	21.8
	KW	2.7	2.7	2.7	2.7	2.8	2.7	2.7	2.7	2.7	2.8	2.7	2.7	2.7	2.7	2.8
115	T.C.	27.7	28.0	27.9	30.7	34.2	28.9	28.9	28.6	31.3	35.0	30.1	29.8	29.3	32.0	35.8
	S.C.	26.8	26.6	22.6	22.4	17.7	28.1	28.4	24.9	24.7	19.2	29.4	30.2	27.1	27.0	20.8
	KW	2.9	2.9	2.8	2.9	3.0	2.9	2.9	2.9	3.0	3.0	3.0	2.9	2.9	3.0	3.1
125	T.C.	26.3	26.1	25.9	28.5	31.6	27.3	27.0	26.4	29.0	32.3	28.3	27.8	27.0	29.5	32.9
	S.C.	25.5	25.7	21.8	21.5	16.8	26.6	27.1	24.0	23.8	18.3	27.6	28.4	26.3	26.0	19.8
	KW	3.1	3.1	3.0	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/PC/UC37	1.00	1.00	1.00
–	FC/MC/PC/UC43	1.00	1.00	1.00
–	FC/MC/PC/UC48	1.00	1.00	1.00
–	FC/MC/PC/UC60	1.00	1.00	1.00
–	HC42	1.00	1.00	1.00
–	HC60	1.00	1.00	1.00
–	HD48	1.00	1.00	1.00
–	HD60	1.00	1.00	1.00
AHP42	–	1.00	1.00	1.00
AHP/SHP60	–	1.01	1.02	0.92
AV36	–	1.01	1.02	0.92
AV/SV48	–	1.01	1.02	0.92
F4FP045	–	1.00	1.00	1.00
F4FV060	–	1.01	1.02	0.92
F5FP048	–	1.01	1.02	0.92
F5FP060	–	1.01	1.02	0.92
MV16C	FC/MC43C	1.02	1.03	0.93
MA12B	FC/MC43B	1.00	1.00	1.00
MV12B	FC/MC43B	1.01	1.02	0.92
MV16C	FC/MC48C	1.02	1.03	0.93
MV16C	FC60C	1.02	1.03	0.93
MV12D	FC/MC48D	1.02	1.03	0.93
MV12D	FC/MC60D	1.02	1.03	0.93
MA14D	FC/MC48D	1.00	1.00	1.00
MA14D	FC/MC60D	1.00	1.00	1.00
MV12D	FC/MC48D	1.01	1.03	0.92

COOLING PERFORMANCE DATA																
CONDENSING UNIT MODEL NO.		GHGD42S21S1														
INDOOR COIL MODEL NO.		AHP42														
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.	38.3	43.6	41.6	46.5	49.4	40.5	44.8	42.8	47.6	50.2	42.7	46.1	44.0	48.7	50.9
	S.C.	38.3	36.8	30.3	31.3	24.1	40.5	39.8	32.7	33.6	25.5	42.7	42.9	35.1	35.8	27.0
	KW	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.4	2.4	2.4	2.4	2.5
75	T.C.	37.0	41.4	39.7	44.3	47.0	39.0	42.8	40.8	45.3	47.4	41.0	44.3	41.9	46.3	47.9
	S.C.	37.0	35.8	29.5	30.3	23.7	39.0	38.7	31.9	32.6	25.2	41.0	41.5	34.3	34.9	26.7
	KW	2.6	2.6	2.6	2.6	2.7	2.6	2.6	2.6	2.7	2.7	2.6	2.6	2.6	2.7	2.7
85	T.C.	35.6	39.3	37.9	42.1	44.6	37.4	40.9	38.8	43.1	44.7	39.3	42.4	39.7	44.0	44.8
	S.C.	35.6	34.8	28.8	29.3	23.4	37.4	37.5	31.1	31.6	24.9	39.3	40.1	33.4	34.0	26.5
	KW	2.8	2.8	2.8	2.9	2.9	2.8	2.9	2.8	2.9	2.9	2.9	2.9	2.8	2.9	3.0
95	T.C.	34.2	37.2	36.0	40.0	42.2	35.9	38.9	36.8	41.0	42.0	37.6	40.5	37.6	41.6	41.8
	S.C.	34.2	33.8	28.0	28.3	23.0	35.9	36.3	30.3	30.8	24.6	37.6	38.8	32.6	33.0	26.3
	KW	3.0	3.1	3.0	3.1	3.2	3.1	3.1	3.0	3.1	3.2	3.1	3.1	3.1	3.2	3.2
105	T.C.	32.4	35.2	33.6	37.3	39.4	34.2	36.8	34.3	38.0	39.4	36.1	38.4	35.1	38.7	39.4
	S.C.	32.4	32.2	26.7	27.1	21.7	34.2	34.3	28.9	29.4	23.3	35.8	36.4	31.2	31.6	24.9
	KW	3.3	3.3	3.2	3.3	3.4	3.3	3.3	3.3	3.4	3.5	3.4	3.4	3.3	3.4	3.5
115	T.C.	30.6	33.2	31.2	34.7	36.7	32.6	34.7	32.0	35.4	36.9	34.6	36.3	32.7	36.0	37.1
	S.C.	30.6	30.6	25.5	26.0	20.5	32.3	32.3	27.6	28.1	22.0	33.7	34.0	29.8	30.2	23.6
	KW	3.5	3.5	3.5	3.6	3.7	3.5	3.6	3.5	3.6	3.7	3.6	3.6	3.5	3.6	3.7
125	T.C.	28.8	31.2	28.8	32.1	33.9	31.0	32.7	29.6	32.7	34.3	33.1	34.2	30.3	33.3	34.7
	S.C.	28.8	29.1	24.3	24.8	19.2	30.3	30.4	26.3	26.8	20.7	31.7	31.7	28.4	28.9	22.2
	KW	3.7	3.7	3.7	3.8	4.0	3.8	3.8	3.7	3.8	4.0	3.8	3.8	3.7	3.9	4.0

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/UC60	1.00	1.00	1.00
–	HC60	1.00	1.00	1.00
–	HD60	1.00	1.00	1.00
AHP/SHP48	–	1.00	1.00	1.00
AHP/SHP60	–	1.01	1.02	1.00
AV/SV48	–	1.01	1.02	1.00
AV/SV60	–	1.01	1.02	1.00
F4FV060	–	1.01	1.02	1.00
F5FP045	–	1.00	1.00	1.00
F5FP048	–	1.01	1.02	1.00
F5FP060	–	1.01	1.02	1.00
MV16C	FC/MC48C	1.01	1.02	1.00
MV16C	FC/MC60C	1.01	1.02	1.00
MV20D	FC/MC48D	1.01	1.02	1.00
MA14D	FC/MC48D	1.00	1.00	1.00
MA16C	FC/MC48C	1.00	1.00	1.00
MV20D	FC/MC60D	1.01	1.02	1.00
MA14D	FC/MC60D	1.00	1.00	1.00
MA16C	FC60C	1.00	1.00	1.00

COOLING PERFORMANCE DATA																
CONDENSING UNIT MODEL NO.		GHGD48S21S1														
INDOOR COIL MODEL NO.		FC/MC/PC/UC48														
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.	43.6	47.2	46.7	50.8	55.5	46.0	48.7	47.3	51.8	55.7	48.3	50.3	47.9	52.8	55.9
	S.C.	43.2	41.1	32.8	33.4	26.3	44.9	43.8	35.5	35.5	27.2	46.6	46.5	38.2	37.7	28.2
	KW	2.4	2.4	2.4	2.5	2.5	2.4	2.4	2.4	2.5	2.5	2.4	2.4	2.4	2.5	2.5
75	T.C.	42.1	45.4	44.4	48.8	52.7	44.3	46.8	45.1	49.7	53.1	46.5	48.2	45.8	50.7	53.5
	S.C.	41.6	40.0	32.4	32.6	25.2	43.3	42.5	34.7	34.7	26.2	44.9	44.9	37.1	36.8	27.2
	KW	2.8	2.8	2.8	2.8	2.9	2.8	2.8	2.8	2.8	2.9	2.8	2.8	2.8	2.8	2.9
85	T.C.	40.5	43.7	42.1	46.8	50.0	42.6	44.9	42.9	47.7	50.5	44.8	46.1	43.8	48.5	51.1
	S.C.	40.1	39.0	31.9	31.8	24.1	41.7	41.2	34.0	33.8	25.2	43.3	43.4	36.0	35.8	26.3
	KW	3.1	3.1	3.1	3.2	3.2	3.1	3.1	3.1	3.2	3.2	3.1	3.2	3.1	3.2	3.2
95	T.C.	39.0	41.9	39.9	44.8	47.2	41.0	42.9	40.8	45.6	47.9	43.0	44.0	41.7	46.4	48.6
	S.C.	38.5	38.0	31.5	31.0	23.0	40.0	39.9	33.2	32.9	24.2	41.6	41.8	34.9	34.9	25.3
	KW	3.5	3.5	3.5	3.5	3.6	3.5	3.5	3.5	3.5	3.6	3.5	3.5	3.5	3.5	3.6
105	T.C.	37.2	39.5	37.7	42.4	44.4	39.4	40.5	38.5	43.1	45.1	41.6	41.5	39.4	43.8	45.7
	S.C.	36.5	36.2	30.5	30.0	22.0	38.1	37.9	32.2	31.9	23.1	39.6	39.5	33.8	33.9	24.1
	KW	4.0	4.0	4.0	4.0	4.1	4.0	4.0	4.0	4.0	4.1	4.0	4.0	4.0	4.0	4.1
115	T.C.	35.5	37.3	35.6	40.1	41.8	37.9	38.1	36.4	40.7	42.3	40.2	39.0	37.1	41.4	42.8
	S.C.	34.6	34.5	29.5	29.1	21.1	36.2	35.9	31.1	31.0	22.0	37.8	37.3	32.8	32.9	22.9
	KW	4.5	4.5	4.5	4.5	4.6	4.5	4.5	4.5	4.5	4.6	4.5	4.5	4.5	4.5	4.6
125	T.C.	33.8	35.0	33.5	37.7	39.1	36.3	35.8	34.2	38.3	39.5	38.8	36.5	34.8	38.9	39.9
	S.C.	32.7	32.8	28.5	28.2	20.2	34.3	34.0	30.1	30.0	21.0	35.9	35.1	31.7	31.9	21.7
	KW	5.0	4.9	5.0	5.0	5.1	5.0	5.0	5.0	5.0	5.1	5.0	5.0	5.0	5.0	5.1

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/UC60	1.02	1.00	1.01
–	FC/MC62	1.02	1.00	1.01
–	HC60	1.02	1.00	1.01
–	HD60	1.02	1.00	1.01
AHP/SHP60	–	1.03	1.01	1.02
AV/SV48	–	1.03	1.01	1.02
AV/SV60	–	1.03	1.01	1.02
F4FV060	–	1.03	1.01	1.02
F5FP060	–	1.03	1.01	1.02
MV16C	FC60C	1.00	1.00	0.98
MV20D	FC/MC60D	1.03	1.01	1.02
MV20D	FC/MC62D	1.04	1.02	1.00
MA16C	FC60C	1.02	1.00	1.01
MA20D	FC/MC60D	1.02	1.00	1.01
MV20D	FC/MC62D	1.03	1.01	1.02
MA20D	FC/MC62D	1.02	1.00	1.01

COOLING PERFORMANCE DATA																
CONDENSING UNIT MODEL NO.		GHGD60S21S1														
INDOOR COIL MODEL NO.		FC/MC62														
CONDENSING ENTERING AIR TEMPERATURE	IDCFM	1600					1800					2000				
	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.	54.0	55.2	55.2	60.7	64.4	56.4	57.0	56.5	62.3	65.6	58.7	58.7	57.7	63.9	66.7
	S.C.	49.8	47.0	36.8	39.6	29.4	52.1	50.2	40.6	42.1	30.8	54.4	53.5	44.3	44.6	32.2
	KW	2.9	2.9	3.0	3.0	3.1	3.0	2.9	3.0	3.0	3.1	3.0	2.9	3.0	3.0	3.1
75	T.C.	52.5	53.5	52.6	58.5	61.5	54.7	55.3	53.9	60.0	62.9	57.0	57.1	55.2	61.5	64.2
	S.C.	48.2	45.9	36.6	38.4	28.4	50.4	49.1	39.9	41.0	30.0	52.6	52.2	43.3	43.5	31.6
	KW	3.3	3.4	3.4	3.4	3.5	3.4	3.4	3.4	3.4	3.5	3.5	3.4	3.4	3.4	3.5
85	T.C.	50.9	51.8	50.1	56.2	58.7	53.0	53.7	51.4	57.6	60.2	55.2	55.5	52.7	59.1	61.7
	S.C.	46.7	44.9	36.3	37.3	27.5	48.7	47.9	39.3	39.8	29.2	50.8	50.9	42.3	42.4	31.0
	KW	3.7	3.8	3.8	3.9	3.9	3.8	3.8	3.8	3.9	4.0	3.8	3.8	3.9	3.9	4.0
95	T.C.	49.3	50.2	47.6	53.9	55.8	51.4	52.0	48.9	55.3	57.5	53.4	53.8	50.2	56.6	59.2
	S.C.	45.1	43.9	36.0	36.1	26.6	47.1	46.8	38.7	38.7	28.5	49.0	49.6	41.3	41.2	30.4
	KW	4.2	4.3	4.3	4.3	4.4	4.2	4.3	4.3	4.3	4.4	4.2	4.3	4.3	4.3	4.4
105	T.C.	46.9	47.7	44.9	51.1	52.9	49.0	49.3	46.2	52.3	54.3	51.0	50.9	47.5	53.6	55.8
	S.C.	42.8	42.0	34.8	34.7	25.5	44.7	44.5	37.3	37.2	27.3	46.6	46.9	39.8	39.8	29.2
	KW	4.8	4.9	4.9	4.9	5.0	4.8	4.9	4.9	4.9	5.0	4.8	4.9	4.9	5.0	5.0
115	T.C.	44.6	45.2	42.3	48.3	50.0	46.6	46.7	43.6	49.5	51.3	48.6	48.1	44.8	50.6	52.5
	S.C.	40.7	40.2	33.5	33.3	24.5	42.4	42.2	35.9	35.8	26.2	44.2	44.2	38.3	38.3	28.0
	KW	5.3	5.5	5.5	5.5	5.6	5.4	5.5	5.5	5.5	5.6	5.4	5.5	5.5	5.6	5.6
125	T.C.	42.3	42.8	39.7	45.6	47.2	44.2	44.0	40.9	46.6	48.2	46.2	45.3	42.2	47.6	49.3
	S.C.	38.5	38.5	32.3	32.0	23.4	40.1	40.0	34.5	34.4	25.1	41.8	41.5	36.8	36.9	26.8
	KW	5.9	6.0	6.1	6.1	6.2	6.0	6.1	6.1	6.1	6.2	6.0	6.1	6.1	6.2	6.2

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
MV20D	FC/MC62D	1.00	1.01	1.00
MA20D	FC/MC62D	1.00	1.00	1.00

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HEATING PERFORMANCE DATA										
CONDENSING UNIT MODEL NO		GHGD18S21S1								
EVAPORATOR COIL MODEL NO		AHP18								
AIR TEMP. ENTERING OUTDOOR UNIT	AIR TEMP. ENTERING INDOOR COIL	ID CFM								
		450			600			750		
		MBTUH	KW	C.O.P.	MBTUH	KW	C.O.P.	MBTUH	KW	C.O.P.
60	60	19.7	4.21	1.37	21.0	4.24	1.45	22.3	4.29	1.52
	70	18.9	3.79	1.47	20.0	3.99	1.47	21.1	4.19	1.47
	80	18.1	3.37	1.57	19.0	3.73	1.49	19.8	4.08	1.42
47	60	17.4	3.83	1.33	18.3	4.15	1.29	19.1	4.51	1.24
	70	16.2	3.50	1.36	17.0	3.61	1.40	17.8	3.74	1.44
	80	14.9	3.16	1.38	15.7	3.06	1.50	16.5	2.96	1.63
40	60	14.9	3.49	1.25	15.9	3.78	1.23	16.8	4.06	1.21
	70	13.5	3.11	1.28	14.5	3.37	1.26	15.3	3.62	1.24
	80	12.1	2.72	1.30	13.0	2.95	1.29	13.8	3.18	1.27
30	60	13.0	3.28	1.16	13.5	3.46	1.14	14.0	3.69	1.11
	70	11.6	2.88	1.18	12.1	3.06	1.16	12.7	3.27	1.14
	80	10.1	2.48	1.19	10.7	2.65	1.18	11.4	2.85	1.17
17	60	9.7	2.78	1.02	10.1	2.92	1.01	10.4	3.04	1.00
	70	8.4	2.43	1.01	9.0	2.59	1.01	9.5	2.74	1.01
	80	7.1	2.08	1.00	7.8	2.26	1.01	8.5	2.44	1.02
10	60	8.2	2.58	0.93	8.3	2.61	0.93	8.5	2.70	0.92
	70	7.2	2.25	0.93	7.3	2.30	0.93	7.5	2.36	0.93
	80	6.1	1.92	0.93	6.3	1.98	0.93	6.5	2.02	0.94

NOTE: ALL CAPACITIES ARE NET (KBTUH) WITH INDOOR FAN HEAT ALREADY DEDUCTED AT 1250 BTUH/1000 CFM.

Multipliers for determining the performance with other indoor sections.

Air Handler	Coil	MBH	KW	COP
-	FC/MC/PC/UC18	1.00	1.00	1.00
-	FC/MC/PC/UC24	1.00	1.00	1.00
-	FC/MC/PC/UC30	1.00	1.00	1.00
-	HC18	1.00	1.00	1.00
AHP24	-	1.00	1.00	1.00
AV24	-	0.96	1.06	0.94
F4FP024	-	1.00	1.00	1.00
MV12B	FC/MC18B	0.97	1.05	0.95
MA08B	FC/MC18B	1.00	1.00	1.00
MV12B	FC/MC24B	0.97	1.06	0.94
MA08B	FC/MC24B	1.00	1.00	1.00
MV12B	FC/MC30B	0.97	1.06	0.94
MA08B	FC/MC30B	1.00	1.00	1.00

HEATING PERFORMANCE DATA										
CONDENSING UNIT MODEL NO		GHGD24S21S1								
EVAPORATOR COIL MODEL NO		AHP24								
AIR TEMP. ENTERING OUTDOOR UNIT	AIR TEMP. ENTERING INDOOR COIL	ID CFM								
		600			800			1000		
		MBTUH	KW	C.O.P.	MBTUH	KW	C.O.P.	MBTUH	KW	C.O.P.
60	60	25.6	4.23	1.77	26.9	4.47	1.76	28.3	4.70	1.76
	70	24.4	4.09	1.75	25.8	4.41	1.71	27.3	4.75	1.68
	80	23.2	3.95	1.72	24.7	4.35	1.66	26.2	4.79	1.60
47	60	21.8	4.46	1.43	23.1	4.90	1.38	24.3	5.35	1.33
	70	20.6	4.03	1.51	21.9	4.20	1.56	23.2	4.40	1.61
	80	19.4	3.59	1.58	20.7	3.50	1.73	22.1	3.44	1.88
40	60	19.5	4.10	1.39	20.8	4.54	1.34	22.0	4.99	1.29
	70	18.6	3.76	1.46	19.8	4.12	1.42	21.0	4.49	1.38
	80	17.7	3.41	1.52	18.8	3.69	1.49	19.9	3.99	1.46
30	60	17.3	3.95	1.28	18.0	4.15	1.27	18.7	4.34	1.26
	70	16.0	3.54	1.33	16.8	3.73	1.33	17.6	3.93	1.32
	80	14.7	3.12	1.38	15.6	3.31	1.38	16.5	3.52	1.37
17	60	12.8	2.71	1.38	13.5	3.16	1.25	14.1	3.68	1.12
	70	11.7	2.67	1.28	12.4	2.98	1.21	13.0	3.33	1.14
	80	10.6	2.63	1.18	11.2	2.80	1.17	11.8	2.97	1.16
10	60	9.5	2.67	1.04	10.7	2.92	1.07	11.9	3.16	1.10
	70	9.2	2.50	1.08	10.1	2.71	1.09	10.9	2.91	1.10
	80	8.9	2.32	1.12	9.4	2.50	1.10	9.9	2.66	1.09

NOTE: ALL CAPACITIES ARE NET (KBTUH) WITH INDOOR FAN HEAT ALREADY DEDUCTED AT 1250 BTUH/1000 CFM.

Multipliers for determining the performance with other indoor sections.

Air Handler	Coil	MBH	KW	COP
-	FC/MC/PC/UC24	1.00	1.00	1.00
-	FC/MC/PC/UC30	1.00	1.00	1.00
-	FC/MC/PC/UC32	1.00	1.00	1.00
-	FC/MC/PC/UC35	1.00	1.00	1.00
-	HC30	1.00	1.00	1.00
-	HC36	1.00	1.00	1.00
-	HD24	1.00	1.00	1.00
-	MH24S	1.00	1.00	1.00
-	MH30S	1.00	1.00	1.00
AHP30	-	1.00	1.00	1.00
AV24	-	0.97	1.08	0.92
FPFP030	-	1.00	1.00	1.00
MV12B	FC/MC24B	0.98	1.07	0.93
MA08B	FC/MC24B	1.00	1.00	1.00
MV12B	FC/MC30B	0.98	1.07	0.93
MA08B	FC/MC30B	1.00	1.00	1.00
MV12B	FC/MC35B	0.97	1.07	0.93
MA08B	FC/MC35B	1.00	1.00	1.00

HEATING PERFORMANCE DATA										
CONDENSING UNIT MODEL NO		GHGD30S21S1								
EVAPORATOR COIL MODEL NO		AHP30								
AIR TEMP. ENTERING OUTDOOR UNIT	AIR TEMP. ENTERING INDOOR COIL	ID CFM								
		800			1000			1200		
		MBTUH	KW	C.O.P.	MBTUH	KW	C.O.P.	MBTUH	KW	C.O.P.
60	60	35.2	4.14	2.49	36.8	4.38	2.46	38.3	4.59	2.44
	70	33.8	3.80	2.62	35.4	4.00	2.60	36.9	4.20	2.58
	80	32.5	3.46	2.75	34	3.63	2.74	35.5	3.82	2.72
47	60	29.3	3.69	2.32	29.9	3.75	2.33	30.6	3.81	2.35
	70	28	3.39	2.42	28.7	3.43	2.46	29.4	3.46	2.50
	80	26.7	3.10	2.52	27.5	3.11	2.59	28.3	3.12	2.65
40	60	25.8	3.38	2.23	26.8	3.50	2.24	27.7	3.59	2.26
	70	24.5	3.12	2.30	25.5	3.22	2.32	26.4	3.30	2.35
	80	23.3	2.86	2.38	24.3	2.95	2.41	25.2	3.02	2.44
30	60	21.1	2.97	2.08	21.7	3.01	2.11	22.4	3.05	2.15
	70	19.8	2.72	2.13	20.4	2.76	2.17	21.1	2.80	2.21
	80	18.5	2.47	2.19	19.2	2.51	2.24	19.9	2.55	2.28
17	60	14.8	2.29	1.89	15.2	2.29	1.94	15.7	2.31	1.99
	70	13.5	2.09	1.89	13.9	2.08	1.95	14.4	2.10	2.01
	80	12.2	1.89	1.89	12.7	1.88	1.97	13.2	1.89	2.04
10	60	11.3	1.84	1.79	11.9	1.88	1.85	12.5	1.90	1.92
	70	10.2	1.68	1.78	10.7	1.70	1.84	11.2	1.72	1.90
	80	9.2	1.52	1.77	9.6	1.53	1.83	10	1.54	1.89

NOTE: ALL CAPACITIES ARE NET (KBTUH) WITH INDOOR FAN HEAT ALREADY DEDUCTED AT 1250 BTUH/1000 CFM.

Multipliers for determining the performance with other indoor sections.

Air Handler	Coil	MBH	KW	COP
-	FC/MC/PC/UC32	1.00	1.00	1.00
-	FC/MC/PC/UC35	1.00	1.00	1.00
-	FC/MC/PC/UC37	1.00	1.00	1.00
-	FC/MC/PC/UC43	1.00	1.00	1.00
-	HC36	1.00	1.00	1.00
-	HC42	1.00	1.00	1.00
-	HD36	1.00	1.00	1.00
-	MH240S	1.00	1.00	1.00
-	MH30S	1.00	1.00	1.00
AHP36	-	1.00	1.00	1.00
AV36	-	0.97	1.07	0.93
FPFP040	-	1.00	1.00	1.00
MV12B	FC/MC35B	0.97	1.06	0.94
MV16C	FC/MC35C	0.97	1.06	0.94
MA12B	FC/MC35B	1.00	1.00	1.00
MV12B	FC/MC43B	0.97	1.05	0.95
MV16C	FC/MC43C	0.97	1.06	0.94
MA12B	FC/MC43B	1.00	1.00	1.00

HEATING PERFORMANCE DATA										
CONDENSING UNIT MODEL NO		GHGD36S21S1								
EVAPORATOR COIL MODEL NO		AHP36								
AIR TEMP. ENTERING OUTDOOR UNIT	AIR TEMP. ENTERING INDOOR COIL	ID CFM								
		1000			1200			1400		
		MBTUH	KW	C.O.P.	MBTUH	KW	C.O.P.	MBTUH	KW	C.O.P.
60	60	41.6	2.4	5.0	42.2	2.3	5.3	42.7	2.2	5.6
	70	40.1	2.6	4.5	40.8	2.5	4.8	41.5	2.4	5.1
	80	38.6	2.8	4.1	39.5	2.7	4.3	40.4	2.6	4.6
47	60	35.3	2.3	4.6	35.5	2.2	4.8	35.7	2.1	4.9
	70	33.8	2.4	4.2	34.3	2.3	4.3	34.8	2.3	4.5
	80	32.4	2.5	3.7	33.1	2.5	3.9	33.8	2.4	4.1
40	60	31.4	2.2	4.2	31.4	2.1	4.4	31.5	2.0	4.5
	70	30.2	2.3	3.9	30.6	2.2	4.0	31.0	2.2	4.2
	80	29.1	2.4	3.5	29.8	2.4	3.7	30.4	2.3	3.8
30	60	27.4	2.0	3.9	27.3	2.0	4.0	27.3	2.0	4.1
	70	26.1	2.1	3.6	26.4	2.1	3.7	26.7	2.1	3.8
	80	24.9	2.2	3.3	25.5	2.2	3.4	26.1	2.2	3.5
17	60	21.4	1.9	3.4	21.5	1.8	3.4	21.7	1.8	3.5
	70	19.9	1.9	3.0	20.2	1.9	3.1	20.6	1.9	3.2
	80	18.4	2.0	2.7	18.9	2.0	2.8	19.4	2.0	2.9
10	60	17.9	1.8	3.0	17.8	1.7	3.0	17.7	1.7	3.0
	70	16.8	1.8	2.7	17.0	1.8	2.8	17.2	1.8	2.9
	80	15.7	1.8	2.5	16.1	1.8	2.6	16.6	1.8	2.7

NOTE: ALL CAPACITIES ARE NET (KBTUH) WITH INDOOR FAN HEAT ALREADY DEDUCTED AT 1250 BTUH/1000 CFM.

Multipliers for determining the performance with other indoor sections.

Air Handler	Coil	MBH	KW	COP
–	FC/MC/PC/UC37	1.00	1.00	1.00
–	FC/MC/PC/UC43	1.00	1.00	1.00
–	FC/MC/PC/UC48	1.00	1.00	1.00
–	FC/MC/PC/UC60	1.00	1.00	1.00
–	HC42	1.00	1.00	1.00
–	HC60	1.00	1.00	1.00
–	HD48	1.00	1.00	1.00
–	HD60	1.00	1.00	1.00
AHP42	–	1.00	1.00	1.00
AHP/SHP60	–	0.98	1.04	0.96
F5FP045	–	1.00	1.00	1.00
F4FV060	–	0.98	1.04	0.96
F5FP048	–	0.98	1.04	0.96
F5FP060	–	0.98	1.04	0.96
AV36	–	0.98	1.04	0.96
AV/SV48	–	0.98	1.04	0.96
MV16C	FC/MC43C	0.97	1.06	0.94
MV12B	FC/MC43B	0.98	1.03	0.97
MA12B	FC/MC43B	1.00	1.00	1.00
MV16C	FC/MC48C	0.97	1.06	0.94
MV16C	FC60C	0.97	1.06	0.94
MV12D	FC/MC48D	0.97	1.06	0.94
MA14D	FC/MC48D	1.00	1.00	1.00
MV12D	FC/MC48D	0.97	1.05	0.95
MA14D	FC/MC60D	1.00	1.00	1.00
MV12D	FC/MC60D	0.97	1.06	0.94

HEATING PERFORMANCE DATA										
CONDENSING UNIT MODEL NO		GHGD42S21S1								
EVAPORATOR COIL MODEL NO		FC/MC/PC/UC48								
AIR TEMP. ENTERING OUTDOOR UNIT	AIR TEMP. ENTERING INDOOR COIL	ID CFM								
		1200			1400			1600		
		MBTUH	KW	C.O.P.	MBTUH	KW	C.O.P.	MBTUH	KW	C.O.P.
60	60	51.7	3.1	4.3	52.6	3.0	4.4	53.4	2.9	4.5
	70	49.6	3.2	3.9	50.4	3.2	4.0	51.3	3.1	4.1
	80	47.4	3.4	3.6	48.3	3.3	3.7	49.2	3.3	3.8
47	60	40.4	2.8	3.6	42.2	2.7	3.8	44.0	2.7	4.0
	70	39.7	3.0	3.4	42.0	2.9	3.6	42.5	2.8	3.6
	80	39.1	3.1	3.2	40.1	3.1	3.3	41.1	3.0	3.4
40	60	38.4	2.7	3.6	39.1	2.6	3.7	39.8	2.6	3.7
	70	35.7	2.8	3.3	36.9	2.7	3.3	38.1	2.7	3.4
	80	33.1	2.9	2.9	34.8	2.9	3.0	36.5	2.9	3.1
30	60	33.5	2.5	3.3	33.4	2.5	3.3	33.3	2.4	3.3
	70	31.0	2.6	3.0	31.7	2.6	3.0	32.3	2.5	3.0
	80	28.6	2.7	2.7	30.0	2.7	2.8	31.3	2.7	2.8
17	60	27.1	2.3	2.9	27.4	2.3	2.9	27.7	2.3	2.9
	70	25.2	2.4	2.6	25.0	2.4	2.6	26.4	2.4	2.6
	80	23.3	2.5	2.4	24.1	2.5	2.4	25.0	2.4	2.4
10	60	24.1	2.2	2.7	24.3	2.2	2.7	24.6	2.1	2.6
	70	22.6	2.3	2.5	22.9	2.2	2.4	23.2	2.2	2.4
	80	21.2	2.3	2.2	21.5	2.3	2.2	21.9	2.3	2.2

NOTE: ALL CAPACITIES ARE NET (KBTUH) WITH INDOOR FAN HEAT ALREADY DEDUCTED AT 1250 BTUH/1000 CFM.

Multipliers for determining the performance with other indoor sections.

Air Handler	Coil	MBH	KW	COP
-	FC/MC/PC/UC60	1.00	1.00	1.00
-	HC60	1.00	1.00	1.00
-	HD60	1.00	1.00	1.00
AHP/SHP48	-	1.00	1.01	0.99
AHP/SHP60	-	0.97	1.05	0.95
AV/SV48	-	0.96	1.04	0.96
AV/SV60	-	0.97	1.05	0.95
F4FV060	-	0.97	1.05	0.95
F5FP045	-	1.00	1.01	0.99
F5FP048	-	0.97	1.05	0.95
F5FP060	-	0.97	1.05	0.95
MV16C	FC/MC48C	0.96	1.04	0.96
MV16C	FC60C	0.96	1.04	0.96
MV20D	FC/MC48D	0.97	1.05	0.95
MA14D	FC/MC48D	1.00	1.00	1.00
MA16C	FC/MC48C	1.00	1.00	1.00
MV20D	FC/MC60D	0.97	1.05	0.95
MA14D	FC/MC60D	1.00	1.00	1.00
MA16C	FC60C	1.00	1.00	1.00

HEATING PERFORMANCE DATA										
CONDENSING UNIT MODEL NO		GHGD48S21S1								
EVAPORATOR COIL MODEL NO		AHP/SHP48								
AIR TEMP. ENTERING OUTDOOR UNIT	AIR TEMP. ENTERING INDOOR COIL	ID CFM								
		1400			1600			1800		
		MBTUH	KW	C.O.P.	MBTUH	KW	C.O.P.	MBTUH	KW	C.O.P.
60	60	64.7	3.3	4.9	64.7	3.4	4.8	64.8	3.4	4.7
	70	62.2	3.9	4.1	62.4	3.8	4.2	62.6	3.7	4.2
	80	59.7	4.4	3.5	60.0	4.3	3.6	60.3	4.1	3.7
47	60	54.3	3.4	4.1	54.5	3.3	4.2	54.7	3.1	4.2
	70	52.1	3.8	3.6	52.3	3.6	3.6	52.5	3.5	3.7
	80	49.8	4.1	3.2	50.1	4.0	3.2	50.3	3.8	3.3
40	60	49.1	3.2	3.8	49.2	3.1	3.9	49.4	3.0	3.9
	70	47.1	3.6	3.3	47.2	3.5	3.4	47.2	3.4	3.4
	80	45.0	4.0	2.9	45.1	3.9	3.0	45.1	3.7	3.0
30	60	42.5	3.1	3.5	42.9	3.0	3.5	43.2	3.0	3.5
	70	39.7	3.4	3.0	40.2	3.4	3.0	40.6	3.4	2.9
	80	36.9	3.7	2.6	37.5	3.8	2.5	38.1	3.9	2.5
17	60	34.5	2.8	3.0	34.9	2.9	3.0	35.3	2.9	2.9
	70	31.8	3.3	2.5	32.6	3.2	2.5	33.5	3.2	2.6
	80	29.1	3.7	2.0	30.4	3.6	2.1	31.7	3.5	2.3
10	60	32.3	2.9	2.8	32.4	2.8	2.8	32.5	2.8	2.8
	70	30.3	3.2	2.4	30.5	3.1	2.4	30.6	3.0	2.4
	80	28.3	3.5	2.0	28.5	3.4	2.1	28.8	3.3	2.1

NOTE: ALL CAPACITIES ARE NET (KBTUH) WITH INDOOR FAN HEAT ALREADY DEDUCTED AT 1250 BTUH/1000 CFM.

Multipliers for determining the performance with other indoor sections.

Air Handler	Coil	MBH	KW	COP
-	FC/MC/PC/UC60	1.00	1.00	1.00
-	FC/MC62	1.00	1.00	1.00
-	HC60	1.00	1.00	1.00
-	HD60	1.00	1.00	1.00
AHP/SHP60	-	0.98	1.02	0.98
AV/SV48	-	0.98	1.02	0.98
AV/SV60	-	0.98	1.02	0.98
F4FV060	-	0.98	1.02	0.98
F5FP060	-	0.98	1.02	0.98
MV16D	FC60C	0.98	1.00	1.00
MV20D	FC/MC60D	0.98	1.02	0.98
MV20D	FC/MC62D	1.00	0.99	1.01
MA16C	FC60C	1.00	1.00	1.00
MA20D	FC/MC60D	1.00	1.00	1.00
MV20D	FC/MC62D	0.98	1.02	0.98
MA20D	FC/MC62D	1.00	1.00	1.00

HEATING PERFORMANCE DATA										
CONDENSING UNIT MODEL NO		GHGD60S21S1								
EVAPORATOR COIL MODEL NO		FC/MC62								
AIR TEMP. ENTERING OUTDOOR UNIT	AIR TEMP. ENTERING INDOOR COIL	ID CFM								
		1600			1800			2000		
		MBTUH	KW	C.O.P.	MBTUH	KW	C.O.P.	MBTUH	KW	C.O.P.
60	60	75.6	4.6	4.8	76.1	4.4	5.1	76.6	4.2	5.3
	70	72.9	5.1	4.2	73.4	4.9	4.4	73.8	4.6	4.7
	80	70.2	5.6	3.7	70.6	5.3	3.9	71.0	5.1	4.1
47	60	63.8	4.3	4.4	64.2	4.1	4.6	64.7	3.9	4.8
	70	61.4	4.8	3.8	61.8	4.6	4.0	62.2	4.4	4.2
	80	59.0	5.3	3.3	59.3	5.0	3.4	59.6	4.8	3.6
40	60	53.1	4.0	3.9	53.2	4.2	3.7	53.3	4.3	3.6
	70	48.9	4.4	3.3	49.3	4.6	3.1	49.6	4.8	3.0
	80	44.7	4.7	2.7	45.4	5.0	2.7	46.0	5.2	2.6
30	60	47.5	4.1	3.4	48.8	3.9	3.6	50.2	3.7	3.9
	70	46.6	4.5	3.0	47.3	4.4	3.2	48.1	4.2	3.4
	80	45.7	4.9	2.7	45.8	4.8	2.8	45.9	4.6	2.9
17	60	38.3	3.8	2.9	40.1	3.6	3.2	41.9	3.5	3.5
	70	36.8	4.0	2.7	38.4	4.0	2.8	40.0	3.9	3.0
	80	35.3	4.3	2.4	36.7	4.3	2.5	38.1	4.4	2.6
10	60	33.1	3.4	2.9	34.5	3.5	2.9	36.0	3.6	2.9
	70	33.2	3.9	2.5	34.0	3.9	2.5	34.7	3.9	2.6
	80	33.4	4.4	2.2	33.4	4.3	2.2	33.4	4.3	2.3

NOTE: ALL CAPACITIES ARE NET (KBTUH) WITH INDOOR FAN HEAT ALREADY DEDUCTED AT 1250 BTUH/1000 CFM.

Multipliers for determining the performance with other indoor sections.

Air Handler	Coil	MBH	KW	COP
MV20D	FC/MC62D	1.00	1.01	0.99
MA20D	FC/MC62D	1.00	1.00	1.00