YORK®
Heating and Air Conditioning

TECHNICAL GUIDE

SPLIT-SYSTEM AIR CONDITIONERS

13 SEER

AY012MA321 THRU 036 (1 THRU 3 NOMINAL TONS, 1 PH)

CERTIFICATION APPLIES ONLY WHEN THE COMPLETE SYSTEM IS LISTED WITH ARI.

LIMITED WARRANTY TO CONSUMERS Good Housekeeping Promises REPLACEMENT OR REFUND IF DEFECTIVE

c UL us LISTED

ISO 9000 REGISTRATION

ISO 9001 Certified Quality Management System

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

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Additional rating information can be found at www.ari.org/aridirectory.

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, each designed to serve a specific function.

WARRANTY

5-year limited parts warranty.
5-year limited compressor warranty.

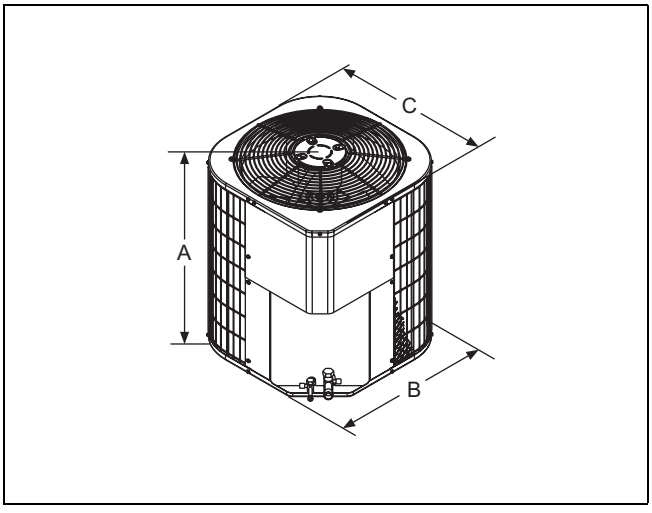
FEATURES

- **QUALITY CONDENSER COILS -** The coil is constructed of aluminum microchannel tubing and enhanced aluminum fins for increased efficiency and corrosion protection.
- **COIL PROTECTION -** Coils are protected from damage by a polymer mesh applied between the coil face, and a coated steel coil guard.
- **PROTECTED COMPRESSOR -** Compressors are 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 flat galvanized steel provides a better paint-to-steel bond, which resists corrosion and rust creep. Special primer formulas and matted champagne finish insure less fading when exposed to sunlight.
- **LOWER INSTALLED COST -** Installation time and costs are reduced by easy power and control wiring connections. 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 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 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		AY012MA321	AY018MA321	AY024MA321	AY030MA321	AY036MA321
Unit Supply Voltage		208 - 230V, 1 Phase, 60Hz				
Minimum Circuit Ampacity		8.9	9.5	12.0	14.5	18.2
Maximum Overprotection Device[1]		15	15	20	25	30
Rated Load Amps		6.7	7.2	8.9	11	13.5
Compressor	Model	2K20S236T6A	2K22S236SUB	2J29S236A1A	2J35S236B1A	H21J30BABCA
	Brand	Panasonic	Panasonic	Panasonic	Panasonic	Bristol
	Type	Rotary	Rotary	Rotary	Rotary	Recip
	LRA	33.0	40.0	60.0	68.0	78.0
	Start Kit	Yes	Yes	Yes	Yes	No
	CCH	No	No	No	No	No
Dimensions	Length (in)	21-3/4	21-3/4	21-3/4	21-3/4	21-3/4
	Width (in)	21-3/4	21-3/4	21-3/4	21-3/4	21-3/4
	Height (in)	22-1/2	22-1/2	24-1/4	26-3/4	30-3/4
	Weight (lbs)	85	90	105	110	140
Fan & Motor	HP	1/12	1/12	1/8	1/8	1/4
	RPM	1100	1100	1075	1075	1100
	FLA	0.5	0.5	0.8	0.8	1.4
	CFM	1450	1450	1700	1800	2150
	Dia (in)	17-1/2	17-1/2	17-1/2	17-1/2	17-1/2
OD Coil	Area (ft^2)	7.26	7.26	7.89	8.77	10.17
	Rows	1	1	1	1	1
	Fins / Inch	23	23	23	23	23
Connection OD	Liquid (in)	3/8	3/8	3/8	3/8	3/8
	Suction (in)	3/4	3/4	3/4	3/4	3/4
Line Set OD	Liquid (in)	3/8	3/8	3/8	3/8	3/8
	Suction (in)	5/8	5/8	5/8	3/4	3/4
Refrigerant		R-22	R-22	R-22	R-22	R-22
Unit Charge (lbs - oz) [2]		2 - 14	2 - 14	3 - 6	3 - 14	3 - 8
Charge Per Foot - oz		0.66	0.66	0.66	0.68	0.68

1. Dual element fuses or HACR circuit breaker.
2. 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	Weight (Lbs.)	Dimensions (Inches)			Refrigerant Connection Service Valve Size	
		A[1]	B	C	Liquid	Vapor
012	85	22-1/2	21-3/4	21-3/4	3/8”	3/4”
018	90	22-1/2	21-3/4	21-3/4		
024	105	24-1/4	21-3/4	21-3/4		
030	110	26-3/4	21-3/4	21-3/4		
036	140	30-3/4	21-3/4	21-3/4		

1. Including Fan Guard

Additional R-22 Charge / TXV for Various Matched Systems						
Outdoor Unit		**AY012MA321**	**AY018MA321**	**AY024MA321**	**AY030MA321**	**AY036MA321**
Required TXV		1TVM2A1	1TVM2A1	1TVM2A1	1TVM2A1	1TVM2A1
Factory R-22 Charge, lbs-oz		2 - 14	2 - 14	3 - 6	3 - 14	3 - 8
Indoor Coil1	Coil Orifice2	TXV Kit3 - Additional Charge, Oz				
FC/MC/PC18A2A	—	0	0	—	—	—
FC/MC/PC18B2A	—	0	0	—	—	—
FC/MC/PC24A2A	—	—	—	0	—	—
FC/MC/PC24B2A	—	—	—	0	—	—
FC/MC/PC30A2A	—	—	—	0	—	—
FC/MC/PC30B2A	—	—	—	0	—	—
FC/MC/PC36A2A	—	—	—	0	0	—
FC/MC/PC36B2A	—	—	—	0	0	—
FC/MC/PC36C2A	—	—	—	0	0	—
HC24A2A	—	0	0	—	—	—
HC30A2A	—	—	—	0	0	—
UC18A2A	—	0	0	—	—	—
UC18B2A	—	0	0	—	—	—
UC24A2A	—	—	—	0	—	—
UC24B2A	—	—	—	0	—	—
UC30A2A	—	—	—	0	—	—
UC30B2A	—	—	—	0	—	—
UC36A2A	—	—	—	0	0	—
UC36B2A	—	—	—	0	0	—
UC36C2A	—	—	—	0	0	—
AHP18B2A	—	0	0	—	—	—
AHP24B2A	—	—	0	0	—	—
AHP36C2A	—	—	—	—	0	—
FC/MC/PC18A3X	—	2A + 0	2A + 0	—	—	—
FC/MC/PC18B3X	—	2A + 0	2A + 0	—	—	—
FC/MC/PC24A3X	—	—	—	2A + 0	—	—
FC/MC/PC24B3X	—	—	—	2A + 0	—	—
FC/MC/PC30A3X	—	—	—	2A + 0	—	—
FC/MC/PC30B3X	—	—	—	2A + 0	—	—
FC/MC/PC36A3X	—	—	—	2A + 0	2A + 0	—
FC/MC/PC36B3X	—	—	—	2A + 0	2A + 0	—
FC/MC/PC36C3X	—	—	—	2A + 0	2A + 0	—
FC/MC/PC42B3X	—	—	—	—	2A + 0	2A + 9
FC/MC/PC42C3X	—	—	—	—	2A + 0	2A + 9
FC/MC/PC48C3X	—	—	—	—	—	2A + 9
FC/MC/PC48D3X	—	—	—	—	—	2A + 9
HC24A3X	—	2A + 0	2A + 0	—	—	—
HC30A3X	—	—	—	2A + 0	2A + 0	—
HC48C3X	—	—	—	—	—	2A + 9
UC18A3X	—	2A + 0	2A + 0	—	—	—
UC18B3X	—	2A + 0	2A + 0	—	—	—
UC24A3X	—	—	—	2A + 0	—	—
UC24B3X	—	—	—	2A + 0	—	—
UC30A3X	—	—	—	2A + 0	—	—
UC30B3X	—	—	—	2A + 0	—	—
UC36A3X	—	—	—	2A + 0	2A + 0	—
UC36B3X	—	—	—	2A + 0	2A + 0	—
UC36C3X	—	—	—	2A + 0	2A + 0	—
UC42B3X	—	—	—	—	2A + 0	2A + 9
UC42C3X	—	—	—	—	2A + 0	2A + 9
UC48C3X	—	—	—	—	—	2A + 9
UC48D3X	—	—	—	—	—	2A + 9

Additional R-22 Charge / TXV for Various Matched Systems (continued)						
Outdoor Unit		**AY012MA321**	**AY018MA321**	**AY024MA321**	**AY030MA321**	**AY036MA321**
Required TXV		1TVM2A1	1TVM2A1	1TVM2A1	1TVM2A1	1TVM2A1
Factory R-22 Charge, lbs-oz		2 - 14	2 - 14	3 - 6	3 - 14	3 - 8
Indoor Coil1	Coil Orifice2	TXV Kit3 - Additional Charge, Oz				
AHP18B3X	—	2A + 0	2A + 0	—	—	—
AHP24B3X	—	—	2A + 0	2A + 0	—	—
AHP36C3X	—	—	—	—	2A + 0	—
AHP42C3X	—	—	—	—	—	2A + 9
G2FD024(S,H)14,17	61	2A + 0	2A + 0	—	—	—
G2FD030(S,H)17	65	2A + 0	2A + 0	2A + 0	—	—
G2FD035(S,H)14	65	2A + 0	2A + 0	2A + 0	—	—
G2FD036(S,H)17	75	—	—	2A + 0	2A + 0	—
G2FD036(S,H)21	75	—	—	—	2A + 0	—
G2FD042(S,H)21	78	—	—	—	2A + 0	2A + 9
G2FD046(S,H)17	78	—	—	—	2A + 0	2A + 9
G2FD048(S,H)21,24	84	—	—	—	—	2A + 9
G4FD024H14T2A	—	0	0	—	—	—
G4FD024H17T2A	—	0	0	—	—	—
G4FD030H17T2A	—	0	0	0	—	—
G4FD035H14T2A	—	0	0	0	—	—
G4FD036H17T2A	—	—	—	0	0	—
G4FD036H21T2A	—	—	—	—	0	—
G4FD042H21T2A	—	—	—	—	0	9
G4FD046H17T2A	—	—	—	—	0	9
G4FD048H21T2A	—	—	—	—	—	9
G4FD048H24T2A	—	—	—	—	—	9
G1HA024H14	61	2A + 0	2A + 0	—	—	—
G1HA036H14	75	—	—	2A + 0	2A + 0	—
G1NA030S17K	63	2A + 0	2A + 0	—	—	—
G1NA030S21M	63	2A + 0	2A + 0	—	—	—
G1NA036S17J	67	—	—	2A + 0	—	—
G1NA036S17L	71	—	—	—	2A + 0	—
G1NA036S21C	67	—	—	2A + 0	—	—
G1NA042S24W	84	—	—	—	—	2A + 9
G1NA048S21D	78	—	—	—	2A + 0	—
G1FA/G1UA030S14	65	2A + 0	2A + 0	—	—	—
G1FA/G1UA036S17,2	73	2A + 0	2A + 0	2A + 0	—	—
G1FA/G1UA048S17	84	—	—	—	2A + 0	2A + 9
G1FA/G1UA048S21	84	—	—	—	—	2A + 9
G4FA030S14T2A	—	0	0	—	—	—
G4FA036S17T2A	—	0	0	0	—	—
G4FA036S21T2A	—	0	0	0	—	—
G4FA048S17T2A	—	—	—	—	0	9
G4FA048S21T2A	—	—	—	—	—	9
F2RP/F2FP024	61	—	2A + 0	—	—	—
F2RP/F2FP030	65	—	—	2A + 0	—	—
F2RP/F2FP042	78	—	—	—	—	2A + 9
F4FP024H06T2A	—	—	2A + 0	—	—	—
F4FP030H06T2A	—	—	—	2A + 0	—	—
F4FP042H06T2A	—	—	—	—	—	2A + 9

FOOTNOTES:

* This system does not achieve 13 SEER

1. Systems matched with furnace or air handlers not equipped with blower-off delays may require blower Time Delay Kit #6918A5011
2. These orifices are factory mounted in the flow device of each indoor coil
3. A TXV kit must be used with these coils to obtain system performance (2A, 2B, and 2C indicate 1TVM series)

PROCEDURES:

1. Unit factory charge listed on the unit nameplate includes refrigerant for the condenser, the smallest evaporator and for 15 feet of interconnecting line tubing.
2. Verify the TXV 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 the table above.
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	ELECTRIC[2] HEAT KW	W		RATED CFM	NET MBH		SEER	EER
						TOTAL	SENS.		
1 PH 13 SEER AC WITH MV - VARIABLE SPEED									
AY018MA321	MV12B	5,8,10	17	FC/MC18B	600	18.4	12.8	14.50	12.00
	MV12B	5,8,10	17	G4FD024H17T2A	600	18.4	12.8	14.50	12.00
AY024MA321	MV12B	5,8,10	17	FC/MC24B	800	24.0	17.7	14.50	12.00
	MV12B	5,8,10	17	FC/MC30B	800	24.0	17.7	14.50	12.00
	MV12B	5,8,10	17	FC/MC36B	800	24.0	17.7	14.50	12.00
	MV12B	5,8,10	17	G4FD030H17T2A	800	24.0	17.7	14.50	12.00
	MV12B	5,8,10	17	G4FD036H17T2A	800	24.0	17.7	14.50	12.00
	MV16C	5,8,10,15,18,20	21	FC/MC36C	800	24.0	17.7	14.50	12.00
AY030MA321	MV12B	5,8,10	17	FC/MC36B	1000	29.2	21.4	11.70	10.40
	MV12B	5,8,10	17	FC/MC42B	1000	29.4	21.6	12.00	10.40
	MV12B	5,8,10	17	G4FD036H17T2A	1000	29.2	21.4	11.70	10.40
	MV12B	5,8,10	17	G4FD046H17T2A	1000	29.4	21.6	12.00	10.40
	MV16C	5,8,10,15,18,20	21	FC/MC36C	1000	29.4	21.6	11.70	10.40
	MV16C	5,8,10,15,18,20	21	FC/MC42C	1000	29.4	21.6	11.70	10.40
	MV16C	5,8,10,15,18,20	21	G4FD036H21T2A	1000	29.4	21.6	11.70	10.40
	MV16C	5,8,10,15,18,20	21	G4FD042H21T2A	1000	29.4	21.6	11.70	10.40
AY036MA321	MV12B	5,8,10	17	FC/MC42B	1200	35.8	25.9	13.75	11.00
	MV12B	5,8,10	17	G4FD046H17T2A	1200	35.8	25.9	13.75	11.00
	MV16C	5,8,10,15,18,20	21	FC/MC42C	1200	36.0	26.1	14.00	11.50
	MV16C	5,8,10,15,18,20	21	FC/MC48C	1200	36.0	26.1	14.00	11.50
	MV16C	5,8,10,15,18,20	21	G4FD042H21T2A	1200	36.0	26.1	14.00	11.50
	MV16C	5,8,10,15,18,20	21	G4FD048H21T2A	1200	36.0	26.1	14.00	11.50
	MV20D	8,10,15,18,20,25	24	FC/MC48D	1200	36.0	26.1	14.00	11.50
	MV20D	8,10,15,18,20,25	24	G4FD048H24T2A	1200	36.0	26.1	14.00	11.50
1 PH 13 SEER AC WITH AHP									
AY012MA321	AHP18	2,5,8	17	—	430	15.5	9.9	13.50	11.00
AY018MA321	AHP18	2,5,8	17	—	650	18.0	12.4	13.00	11.00
	AHP24	2,5,8,10	17	—	655	18.0	12.4	13.00	11.00
AY024MA321	AHP24	2,5,8,10	17	—	830	23.4	17.1	13.00	11.00
AY030MA321	AHP36	5,8,10,15,18	17	—	1040	28.8	21.0	10.90	9.90
AY036MA321	AHP42	5,8,10,15,18	21	—	1255	35.4	25.5	13.00	11.00
1 PH 13 SEER AC WITH F4FP									
AY018MA321	F4FP024H06T2A	5,8,10	17	—	600	18.0	12.4	13.00	11.00
AY024MA321	F4FP030H06T2A	5,8,10,15	17	—	800	23.4	17.1	13.00	11.00
AY036MA321	F4FP042H06T2A	5,8,10,15	24	—	1200	35.4	25.5	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 80ºF entering air temperature, 50% RH, and rated air flow.
EER (Energy Efficiency Ratio) is the total cooling output in BTU's at 95ºF 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 BUT's during a normal annual usage period for cooling divided by the total electric power input in watt-hours during the same period.

1. G4FD coils available with a factory installed horizontal drain pan. See price pages for specific model number.
2. Single phase units require single phase 2HK heaters.

COOLING CAPACITY - Upflow, Downflow, & Horizontal Furnaces and Coils

UNIT MODEL	FURNACE**		COIL MODEL	COOLING				
	CFM RANGE (MIN.-MAX.)	W		RATED CFM	NET MBH		SEER	EER
					TOTAL	SENS.		
AY012MA321		14,17	FC/MC/PC18	400	15.5	9.9	13.50	11.00
		14	G4FA030S14T2A	400	15.5	9.9	13.50	11.00
		17,21	G4FA036S17T2A	400	15.5	9.9	13.50	11.00
		17,21	G4FA036S21T2A	400	15.5	9.9	13.50	11.00
	250	14,17	G4FD024H14T2A	400	15.5	9.9	13.50	11.00
	550	14,17	G4FD024H17T2A	400	15.5	9.9	13.50	11.00
		17	G4FD030H17T2A	400	15.5	9.9	13.50	11.00
		14	G4FD035H14T2A	400	15.5	9.9	13.50	11.00
		14	HC24	400	15.5	9.9	13.50	11.00
		14,17	UC18	400	15.5	9.9	13.50	11.00
AY018MA321		14,17	FC/MC/PC18	600	18.0	12.4	13.00	11.00
		14	G4FA030S14T2A	600	18.0	12.4	13.00	11.00
		17,21	G4FA036S17T2A	600	18.0	12.4	13.00	11.00
		17,21	G4FA036S21T2A	600	18.0	12.4	13.00	11.00
	450	14,17	G4FD024H14T2A	600	18.0	12.4	13.00	11.00
	750	14,17	G4FD024H17T2A	600	18.0	12.4	13.00	11.00
		17	G4FD030H17T2A	600	18.0	12.4	13.00	11.00
		14	G4FD035H14T2A	600	18.0	12.4	13.00	11.00
		14	HC24	600	18.0	12.4	13.00	11.00
		14,17	UC18	600	18.0	12.4	13.00	11.00
AY024MA321		14,17	FC/MC/PC24	800	23.4	17.1	13.00	11.00
		14,17	FC/MC/PC30	800	23.4	17.1	13.00	11.00
		14,17,21	FC/MC/PC36	800	23.4	17.1	13.00	11.00
		17,21	G4FA036S17T2A	800	23.4	17.1	13.00	11.00
	600	17,21	G4FA036S21T2A	800	23.4	17.1	13.00	11.00
	1000	17	G4FD030H17T2A	800	23.4	17.1	13.00	11.00
		14	G4FD035H14T2A	800	23.4	17.1	13.00	11.00
		17	G4FD036H17T2A	800	23.4	17.1	13.00	11.00
		14	HC30	800	23.4	17.1	13.00	11.00
		14,17	UC24	800	23.4	17.1	13.00	11.00
		14,17	UC30	800	23.4	17.1	13.00	11.00
		14,17,21	UC36	800	23.4	17.1	13.00	11.00
AY030MA321		14,17,21	FC/MC/PC36	1000	28.8	21.0	10.90	9.90
		17,21	FC/MC/PC42	1000	28.8	21.0	10.90	9.90
		17	G4FA048S17T2A	1000	28.8	21.0	10.90	9.90
		17	G4FD036H17T2A	1000	28.8	21.0	10.90	9.90
	800	21	G4FD036H21T2A	1000	28.8	21.0	10.90	9.90
	1200	21	G4FD042H21T2A	1000	28.8	21.0	10.90	9.90
		17	G4FD046H17T2A	1000	28.8	21.0	10.90	9.90
		14	HC30	1000	28.8	21.0	10.90	9.90
		14,17,21	UC36	1000	28.8	21.0	10.90	9.90
		17,21	UC42	1000	28.8	21.0	10.90	9.90
AY036MA321		17,21	FC/MC/PC42	1200	35.4	25.5	13.00	11.00
		21,24	FC/MC/PC48	1200	35.4	25.5	13.00	11.00
		17	G4FA048S17T2A	1200	35.4	25.5	13.00	11.00
		21	G4FA048S21T2A	1200	35.4	25.5	13.00	11.00
	1000	21	G4FD042H21T2A	1200	35.4	25.5	13.00	11.00
	1400	17	G4FD046H17T2A	1200	35.4	25.5	13.00	11.00
		21,24	G4FD048H21T2A	1200	35.4	25.5	13.00	11.00
		21,24	G4FD048H24T2A	1200	35.4	25.5	13.00	11.00
		21	HC48	1200	35.4	25.5	13.00	11.00
		17,21	UC42	1200	35.4	25.5	13.00	11.00
		21,24	UC48	1200	35.4	25.5	13.00	11.00

1. Requires a 2FD Blower Time Delay unless a standard furnace is equipped with one.
2. TXV = Use 1TVM2* kit on non-factory installed TXV coils.

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

COOLING CAPACITY - Variable Speed Furnaces

UNIT MODEL	VARIABLE SPEED FURNACE MODEL	COIL MODEL	W	COOLING				
				RATED CFM	NET MBH		SEER	EER
					TOTAL	SENS.		
AY018MA321	PV8*A12	FC/MC/PC18A	14	600	18.4	12.8	14.50	12.00
	PV8*B16	FC/MC/PC18B	17	600	18.4	12.8	14.50	12.00
	PV9*A12	FC/MC/PC18A	14	600	18.3	12.7	14.00	11.50
	PV9*B12	FC/MC/PC18B	17	600	18.4	12.8	14.50	12.00
	PV8*B16	G4FA036S17T2A	17	600	18.4	12.8	14.50	12.00
	PV9*B12	G4FA036S17T2A	17	600	18.4	12.8	14.50	12.00
	PV8*A12	G4FA030S14T2A	14	600	18.4	12.8	14.50	12.00
	PV9*A12	G4FA030S14T2A	14	600	18.3	12.7	14.00	11.50
	PV8*A12	G4FD024H14T2A	14	600	18.4	12.8	14.50	12.00
	PV9*A12	G4FD024H14T2A	14	600	18.3	12.7	14.00	11.50
	PV8*B16	G4FD024H17T2A	17	600	18.4	12.8	14.50	12.00
	PV9*B12	G4FD024H17T2A	17	600	18.4	12.8	14.50	12.00
	PV8*B16	G4FD030H17T2A	17	600	18.4	12.8	14.50	12.00
	PV9*B12	G4FD030H17T2A	17	600	18.4	12.8	14.50	12.00
	PV8*A12	G4FD035H14T2A	14	600	18.4	12.8	14.50	12.00
	PV9*A12	G4FD035H14T2A	14	600	18.3	12.7	14.00	11.50
	PV8*A12	HC24	14	600	18.4	12.8	14.50	12.00
	PV9*A12	HC24	14	600	18.3	12.7	14.00	11.50
AY024MA321	PV8*A12	FC/MC/PC24A	14	800	23.8	17.5	14.00	11.50
	PV9*A12	FC/MC/PC24A	14	800	23.8	17.5	14.00	11.50
	PV8*B16	FC/MC/PC24B	17	800	23.8	17.5	14.00	11.50
	PV9*B12	FC/MC/PC24B	17	800	23.8	17.5	14.00	11.50
	PV8*A12	FC/MC/PC30A	14	800	23.8	17.5	14.00	11.50
	PV9*A12	FC/MC/PC30A	14	800	23.8	17.5	14.00	11.50
	PV8*B16	FC/MC/PC30B	17	800	23.8	17.5	14.00	11.50
	PV9*B12	FC/MC/PC30B	17	800	23.8	17.5	14.00	11.50
	PV8*A12	FC/MC/PC36A	14	800	23.8	17.5	14.00	11.50
	PV8*B16	FC/MC/PC36B	17	800	23.8	17.5	14.00	11.50
	PV9*A12	FC/MC/PC36A	14	800	23.8	17.5	14.00	11.50
	PV9*B12	FC/MC/PC36B	17	800	23.8	17.5	14.00	11.50
	PV8*B16	G4FA036S17T2A	17	800	23.6	17.3	14.00	11.50
	PV9*B12	G4FA036S17T2A	17	800	23.8	17.5	14.00	11.50
	PV8*B16	G4FD030H17T2A	17	800	23.6	17.3	14.00	11.50
	PV9*B12	G4FD030H17T2A	17	800	23.6	17.3	14.00	11.50
	PV8*A12	G4FD035H14T2A	14	800	23.6	17.3	14.00	11.50
	PV9*A12	G4FD035H14T2A	14	800	23.6	17.3	14.00	11.50
	PV8*B16	G4FD036H17T2A	17	800	23.8	17.5	14.00	11.50
	PV9*B12	G4FD036H17T2A	17	800	23.8	17.5	14.00	11.50
	PV8*A12	HC30	14	800	23.8	17.5	14.00	11.50
	PV9*A12	HC30	14	800	23.8	17.5	14.00	11.50
AY030MA321	PV8*A12	FC/MC/PC36A	14	1000	29.0	21.2	11.50	9.90
	PV8*B16	FC/MC/PC36B	17	1000	29.4	21.6	11.70	10.40
	PV8*C16	FC/MC/PC36C	21	1000	29.4	21.6	11.70	10.40
	PV8*C20	FC/MC/PC36C	21	1000	29.4	21.6	12.20	10.40
	PV9*A12	FC/MC/PC36A	14	1000	29.0	21.2	11.30	9.90
	PV9*B12	FC/MC/PC36B	17	1000	29.2	21.4	11.50	9.90
	PV9*C16	FC/MC/PC36C	21	1000	29.2	21.4	11.70	10.40
	PV9*C20	FC/MC/PC36C	21	1000	29.2	21.4	11.70	10.40
	PV8*B16	FC/MC/PC42B	17	1000	29.4	21.6	11.70	10.40
	PV8*C16	FC/MC/PC42C	21	1000	29.4	21.6	12.20	10.40
	PV8*C20	FC/MC/PC42C	21	1000	29.4	21.6	12.20	10.40
	PV9*B12	FC/MC/PC42B	17	1000	29.2	21.4	11.70	10.40
	PV9*C16	FC/MC/PC42C	21	1000	29.2	21.4	11.70	10.40
	PV9*C20	FC/MC/PC42C	21	1000	29.2	21.4	11.70	10.40
	PV8*B16	G4FA048S17T2A	17	1000	29.4	21.6	11.70	10.40
	PV9*B12	G4FA048S17T2A	17	1000	29.2	21.4	11.70	10.40

COOLING CAPACITY - VARIABLE SPEED FURNACES (CONTINUED)								
UNIT MODEL	VARIABLE SPEED FURNACE MODEL	COIL MODEL	W	COOLING				
				RATED CFM	NET MBH		SEER	EER
					TOTAL	SENS.		
AY030MA321	PV8*B16	G4FD036H17T2A	17	1000	29.4	21.6	11.70	10.40
	PV9*B12	G4FD036H17T2A	17	1000	29.2	21.4	11.50	9.90
	PV8*C16	G4FD036H21T2A	21	1000	29.4	21.6	11.70	10.40
	PV8*C20	G4FD036H21T2A	21	1000	29.4	21.6	11.70	10.40
	PV9*C16	G4FD036H21T2A	21	1000	29.2	21.4	11.70	10.40
	PV9*C20	G4FD036H21T2A	21	1000	29.2	21.4	11.70	10.40
	PV8*C16	G4FD042H21T2A	21	1000	29.4	21.6	12.20	10.40
	PV8*C20	G4FD042H21T2A	21	1000	29.4	21.6	12.20	10.40
	PV9*C16	G4FD042H21T2A	21	1000	29.2	21.4	11.70	10.40
	PV9*C20	G4FD042H21T2A	21	1000	29.2	21.4	11.70	10.40
	PV8*B16	G4FD046H17T2A	17	1000	29.4	21.6	11.70	10.40
	PV9*B12	G4FD046H17T2A	17	1000	29.4	21.6	11.70	10.40
	PV8*A12	HC30	14	1000	29.0	21.2	11.50	9.90
	PV9*A12	HC30	14	1000	29.0	21.2	11.30	9.90
AY036MA321	PV8*B16	FC/MC/PC42B	17	1200	35.8	25.9	14.00	11.50
	PV8*C16	FC/MC/PC42C	21	1200	36.0	26.1	14.00	11.50
	PV8*C20	FC/MC/PC42C	21	1200	36.0	26.1	14.00	11.50
	PV9*B12	FC/MC/PC42B	17	1200	35.6	25.7	13.00	11.00
	PV9*C16	FC/MC/PC42C	21	1200	35.8	25.9	13.75	11.00
	PV9*C20	FC/MC/PC42C	21	1200	35.8	25.9	13.75	11.00
	PV8*C16	FC/MC/PC48C	21	1200	36.0	26.1	14.00	11.50
	PV8*C20	FC/MC/PC48C	21	1200	36.0	26.1	14.00	11.50
	PV9*C16	FC/MC/PC48C	21	1200	35.8	25.9	14.00	11.50
	PV9*C20	FC/MC/PC48C	21	1200	35.8	25.9	14.00	11.50
	PV9*D20	FC/MC/PC48D	24	1200	35.8	25.9	14.00	11.50
	PV8*B16	G4FA048S17T2A	17	1200	35.8	25.9	14.00	11.50
	PV9*B12	G4FA048S17T2A	17	1200	35.6	25.7	13.50	11.00
	PV8*C16	G4FA048S21T2A	21	1200	36.0	26.1	14.00	11.50
	PV8*C20	G4FA048S21T2A	21	1200	36.0	26.1	14.00	11.50
	PV9*C16	G4FA048S21T2A	21	1200	35.8	25.9	13.75	11.00
	PV9*C20	G4FA048S21T2A	21	1200	35.8	25.9	13.75	11.00
	PV8*C16	G4FD042H21T2A	21	1200	36.0	26.1	14.00	11.50
	PV8*C20	G4FD042H21T2A	21	1200	36.0	26.1	14.00	11.50
	PV9*C16	G4FD042H21T2A	21	1200	35.8	25.9	13.75	11.00
	PV9*C20	G4FD042H21T2A	21	1200	35.8	25.9	13.75	11.00
	PV8*B16	G4FD046H17T2A	17	1200	35.8	25.9	14.00	11.50
	PV9*B12	G4FD046H17T2A	17	1200	35.6	25.7	13.50	11.00
	PV8*C16	G4FD048H21T2A	21	1200	36.0	26.1	14.00	11.50
	PV8*C20	G4FD048H21T2A	21	1200	36.0	26.1	14.00	11.50
	PV9*C16	G4FD048H21T2A	21	1200	35.8	25.9	14.00	11.50
	PV9*C20	G4FD048H21T2A	21	1200	35.8	25.9	14.00	11.50
	PV9*D20	G4FD048H24T2A	24	1200	35.8	25.9	14.00	11.50
	PV8*C16	HC48	21	1200	36.0	26.1	14.00	11.50
	PV8*C20	HC48	21	1200	36.0	26.1	14.00	11.50
	PV9*C16	HC48	21	1200	35.8	25.9	13.75	11.00
	PV9*C20	HC48	21	1200	35.8	25.9	14.00	11.50

1. G4FD coils available with a factory installed horizontal drain pan. See price pages for specific model number.
2. Variable speed furnaces have B.O.D. (Blower on Delay) standard.

ACCESSORIES*

Refer to Price Manual for specific model numbers.

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

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

1H/1C, manual change-over electronic non-programmable therm stat.

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

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

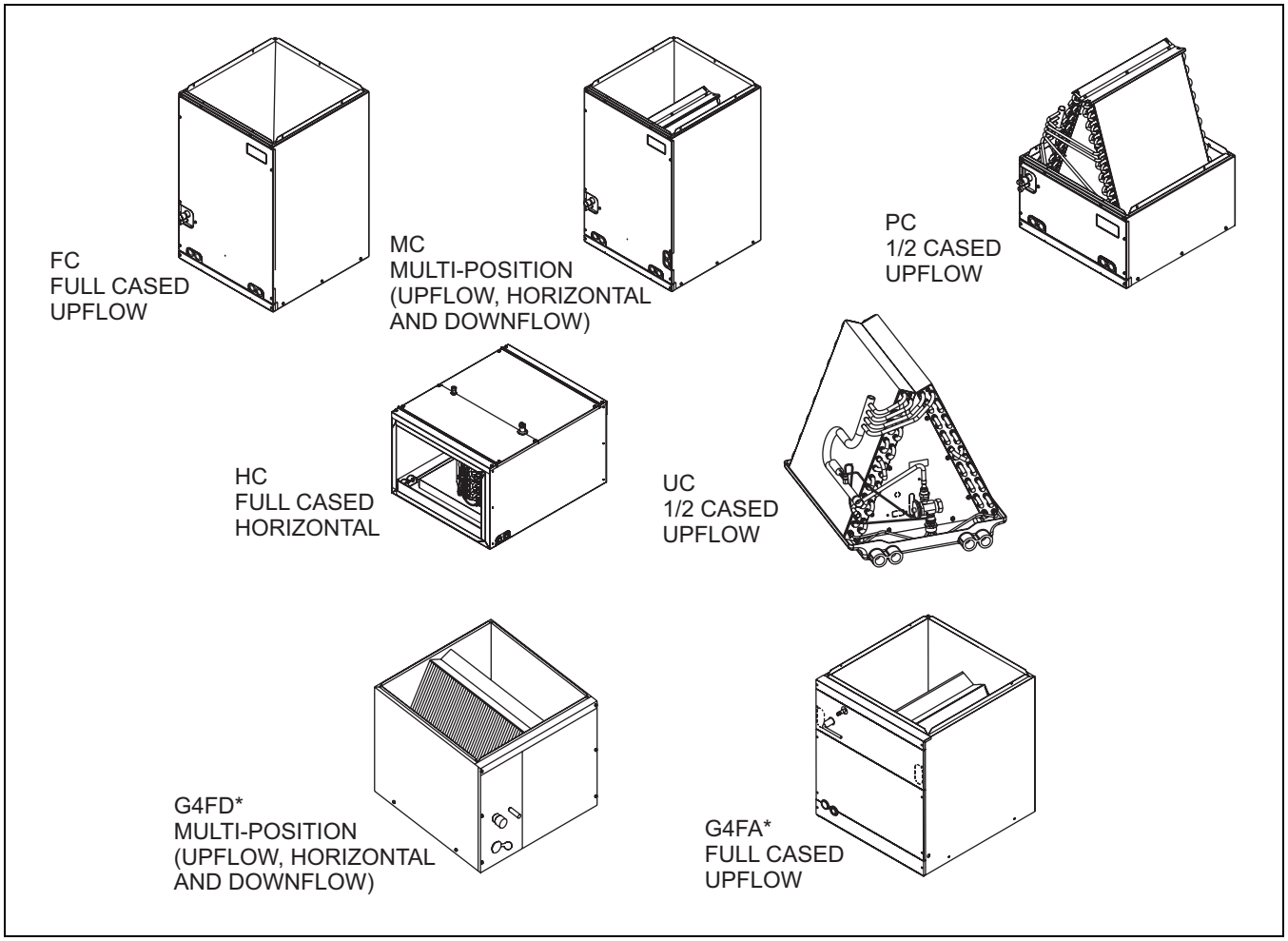
* For the most current accessory information, refer to the price book or consult factory.

SOUND POWER RATINGS*

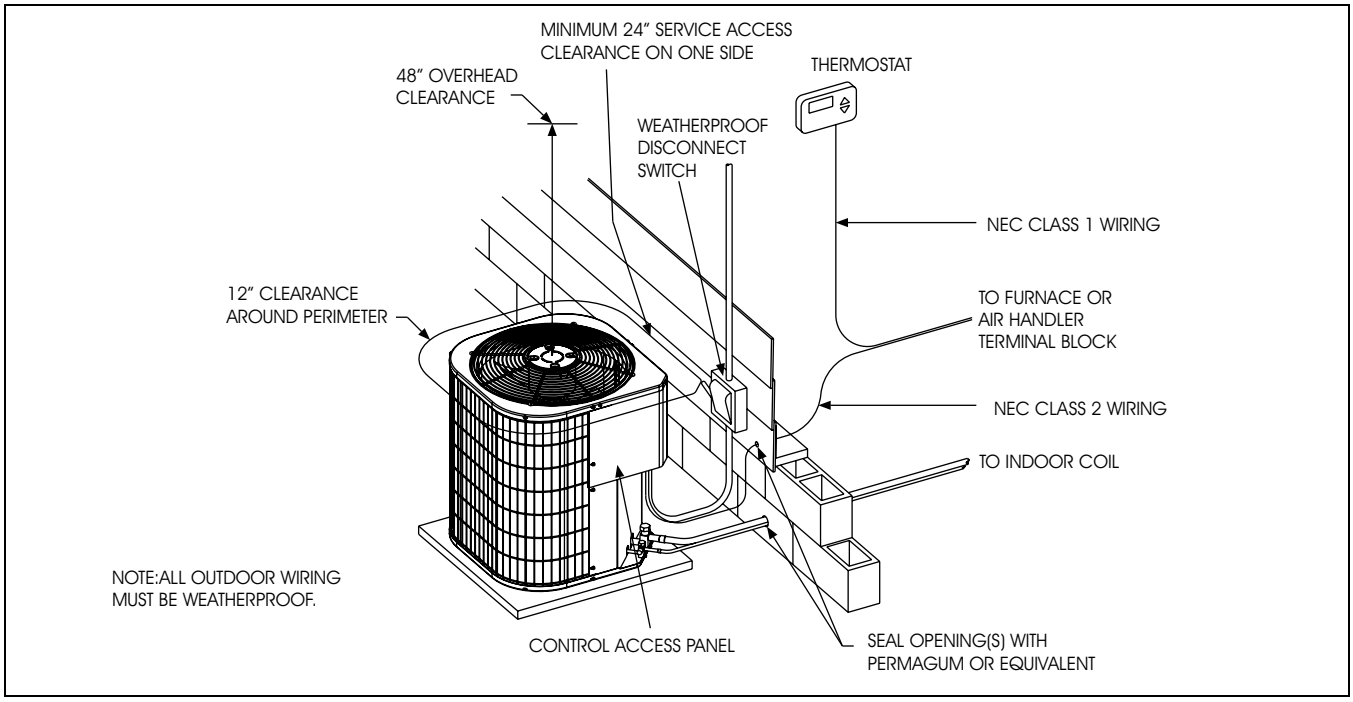
UNIT MODEL	(dBA)
012	74
018	72
024	75
030	75
036	76

*Rated in accordance with ARI 270-95 Standards.

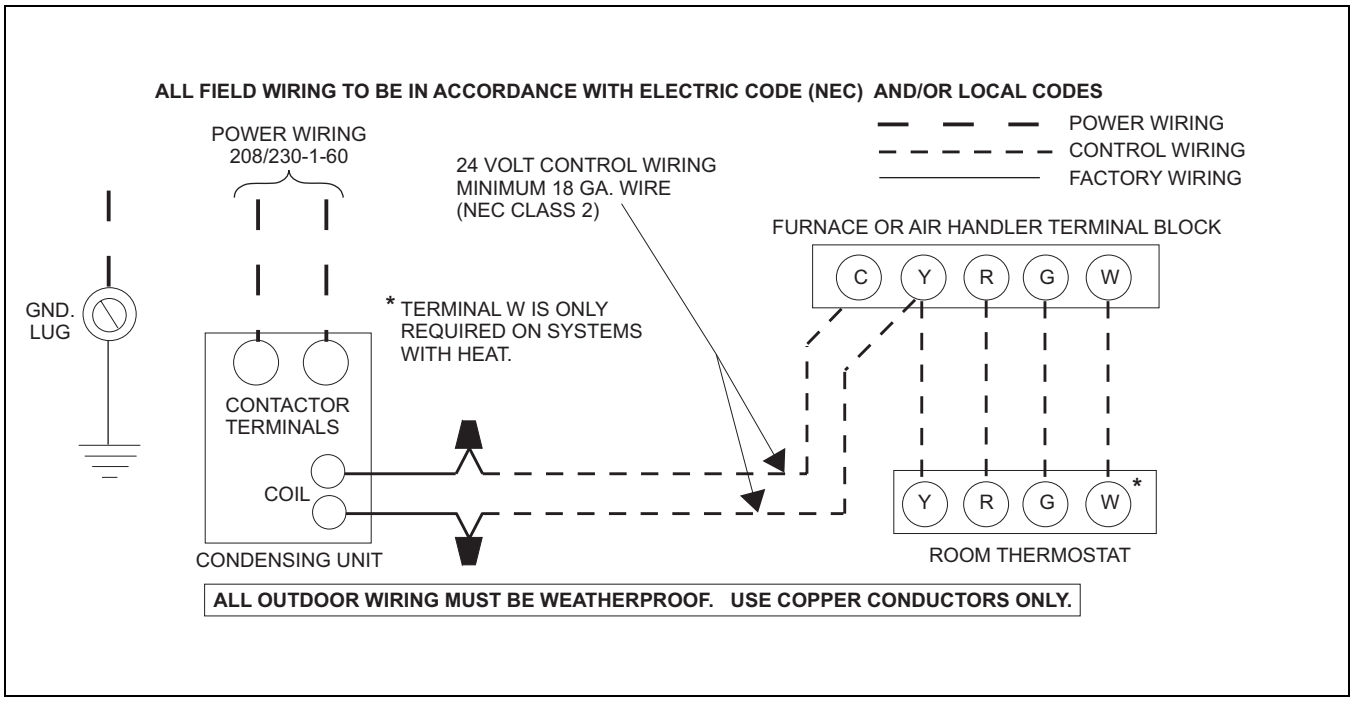
MATCHING INDOOR COMPONENTS



TYPICAL INSTALLATION



TYPICAL FIELD WIRING



COOLING PERFORMANCE DATA																
AIR CONDITIONER MODEL NO.		AY012MA321														
INDOOR COIL MODEL NO.		G2FD024S17														
CONDENSER ENTERING AIR TEMPERATURE	ID CFM	250					400					550				
	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.	10.5	14.0	13.4	15.1	16.6	13.9	15.6	15.3	17.4	18.9	17.3	17.2	17.2	19.6	21.1
	S.C.	10.7	9.7	8.1	8.3	7.0	14.2	12.2	10.5	11.1	8.6	17.6	14.6	12.9	13.9	10.3
	KW	1.0	1.1	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.	10.4	13.6	13.1	14.8	16.5	13.6	15.2	14.9	16.7	18.4	16.8	16.8	16.7	18.7	20.4
	S.C.	10.6	9.5	7.9	8.1	7.0	13.8	12.2	10.3	10.7	8.6	17.0	14.8	12.8	13.3	10.2
	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	1.2
85	T.C.	10.3	13.2	12.8	14.5	16.4	13.3	14.8	14.5	16.1	18.0	16.3	16.4	16.1	17.8	19.7
	S.C.	10.3	9.2	7.6	7.9	6.9	13.4	12.1	10.2	10.3	8.6	16.5	15.0	12.7	12.7	10.2
	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
95	T.C.	10.2	12.7	12.4	14.1	16.3	13.0	14.3	14.0	15.5	17.6	15.8	16.0	15.6	16.9	18.9
	S.C.	10.0	8.9	7.4	7.7	6.9	13.0	12.1	10.0	9.9	8.5	15.9	15.3	12.6	12.1	10.1
	KW	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
105	T.C.	9.9	11.9	11.6	13.4	15.4	12.5	13.5	13.1	14.7	16.6	15.1	15.2	14.7	16.0	17.8
	S.C.	9.8	8.5	7.0	7.5	6.5	12.5	11.4	9.5	9.7	8.0	15.3	14.3	12.1	11.9	9.6
	KW	1.5	1.5	1.5	1.5	1.6	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
115	T.C.	9.6	11.1	10.7	12.7	14.6	12.0	12.7	12.3	13.9	15.7	14.4	14.4	13.8	15.1	16.8
	S.C.	9.5	8.1	6.5	7.3	6.1	12.1	10.8	9.0	9.5	7.5	14.6	13.4	11.5	11.7	9.0
	KW	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.7	1.7	1.8	1.8
125	T.C.	9.3	10.3	9.8	11.9	13.7	11.5	12.0	11.4	13.1	14.7	13.7	13.6	12.9	14.3	15.7
	S.C.	9.2	7.8	6.1	7.0	5.7	11.6	10.1	8.6	9.3	7.1	14.0	12.5	11.0	11.5	8.4
	KW	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
NOTE: ALL CAPACITIES ARE NET WITH INDOOR FAN HEAT ALREADY DEDUCTED 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
AHP18	—	1.00	1.00	1.00
—	FC/MC/PC18	1.00	1.00	1.00
—	G4FA030S14T2A	1.00	1.00	1.00
—	G4FA036S17T2A	1.00	1.00	1.00
—	G4FA036S21T2A	1.00	1.00	1.00
—	G4FD024H14T2A	1.00	1.00	1.00
—	G4FD024H17T2A	1.00	1.00	1.00
—	G4FD030H17T2A	1.00	1.00	1.00
—	G4FD035H14T2A	1.00	1.00	1.00
—	HC24	1.00	1.00	1.00
—	UC18	1.00	1.00	1.00

Variable Speed Furnace	Coil	T.C.	S.C.	KW
—	—	—	—	—
—	—	—	—	—
—	—	—	—	—
—	—	—	—	—
—	—	—	—	—
—	—	—	—	—

COOLING PERFORMANCE DATA																	
AIR CONDITIONER MODEL NO.		AY018MA321															
INDOOR COIL MODEL NO.		G2FD024S17															
CONDENSER ENTERING AIR TEMPERATURE	ID CFM	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.	16.3	18.5	18.6	20.3	22.1	17.8	19.1	19.1	20.8	22.5	19.3	19.7	19.7	21.2	22.9	
	S.C.	15.4	14.0	12.3	12.1	9.8	17.0	15.8	13.8	13.4	10.9	18.6	17.7	15.3	14.8	12.1	
	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	
75	T.C.	15.9	17.5	17.6	19.3	21.3	17.3	18.2	18.2	19.9	21.7	18.6	18.8	18.9	20.4	22.1	
	S.C.	15.0	13.4	11.7	11.6	9.5	16.5	15.3	13.3	13.1	10.6	17.9	17.2	14.9	14.6	11.8	
	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.	15.6	16.6	16.6	18.3	20.5	16.7	17.2	17.3	18.9	20.9	17.9	17.9	18.1	19.6	21.2	
	S.C.	14.7	12.9	11.1	11.1	9.3	16.0	14.7	12.8	12.7	10.3	17.3	16.6	14.4	14.4	11.4	
	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	
95	T.C.	15.2	15.6	15.6	17.3	19.7	16.2	16.3	16.4	18.0	20.0	17.2	17.0	17.3	18.7	20.4	
	S.C.	14.3	12.3	10.5	10.6	9.1	15.5	14.2	12.3	12.4	10.0	16.6	16.1	14.0	14.2	11.0	
	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.	13.9	14.6	14.7	16.3	18.6	15.1	15.3	15.4	17.0	18.9	16.3	15.9	16.1	17.6	19.3	
	S.C.	13.0	11.8	10.0	10.2	8.6	14.2	13.4	11.6	11.9	9.6	15.4	15.0	13.3	13.7	10.7	
	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	
115	T.C.	12.7	13.7	13.7	15.3	17.5	14.0	14.3	14.4	15.9	17.8	15.3	14.9	15.0	16.6	18.2	
	S.C.	11.8	11.2	9.5	9.7	8.2	13.0	12.5	11.1	11.4	9.2	14.3	13.8	12.6	13.2	10.3	
	KW	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
125	T.C.	11.4	12.8	12.8	14.4	16.4	12.9	13.3	13.3	14.9	16.7	14.4	13.9	13.8	15.5	17.1	
	S.C.	10.5	10.7	9.0	9.2	7.7	11.8	11.7	10.5	11.0	8.9	13.2	12.7	11.9	12.7	10.0	
	KW	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
NOTE: ALL CAPACITIES ARE NET WITH INDOOR FAN HEAT ALREADY DEDUCTED 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
MV12B	FC/MC18B	1.02	1.03	0.94
MV12B	G4FD024H17T2A	1.02	1.03	0.94
AHP18	—	1.00	1.00	1.00
AHP24	—	1.00	1.00	1.00
F4FP024H06T2A	—	1.00	1.00	1.00
—	FC/MC/PC18	1.00	1.00	1.00
—	G4FA030S14T2A	1.00	1.00	1.00
—	G4FA036S17T2A	1.00	1.00	1.00
—	G4FA036S21T2A	1.00	1.00	1.00
—	G4FD024H14T2A	1.00	1.00	1.00
—	G4FD024H17T2A	1.00	1.00	1.00
—	G4FD030H17T2A	1.00	1.00	1.00
—	G4FD035H14T2A	1.00	1.00	1.00
—	HC24	1.00	1.00	1.00
—	UC18	1.00	1.00	1.00

Variable Speed Furnace	Coil	T.C.	S.C.	KW
PV8*A12	FC/MC/PC18A	1.02	1.03	0.94
PV8*B16	FC/MC/PC18B	1.02	1.03	0.94
PV9*A12	FC/MC/PC18A	1.02	1.02	0.97
PV9*B12	FC/MC/PC18B	1.02	1.03	0.94
PV8*B16	G4FA036S17T2A	1.02	1.03	0.94
PV9*B12	G4FA036S17T2A	1.02	1.03	0.94
PV8*A12	G4FA030S14T2A	1.02	1.03	0.94
PV9*A12	G4FA030S14T2A	1.02	1.02	0.97
PV8*A12	G4FD024H14T2A	1.02	1.03	0.94
PV9*A12	G4FD024H14T2A	1.02	1.02	0.97
PV8*B16	G4FD024H17T2A	1.02	1.03	0.94
PV9*B12	G4FD024H17T2A	1.02	1.03	0.94
PV8*B16	G4FD030H17T2A	1.02	1.03	0.94
PV9*B12	G4FD030H17T2A	1.02	1.03	0.94
PV8*A12	G4FD035H14T2A	1.02	1.03	0.94
PV8*B16	FC/MC/PC18B	1.02	1.03	0.94
PV9*A12	FC/MC/PC18A	1.02	1.02	0.97

COOLING PERFORMANCE DATA																
AIR CONDITIONER MODEL NO.		AY024MA321														
INDOOR COIL MODEL NO.		G2FD030S17														
CONDENSER ENTERING AIR TEMPERATURE	ID CFM	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.	21.4	24.0	23.7	25.8	28.6	23.5	24.7	24.2	26.2	28.6	25.5	25.3	24.8	26.5	28.7
	S.C.	20.6	19.1	16.1	16.3	13.0	22.7	21.8	18.6	18.3	14.3	24.7	24.5	21.0	20.4	15.6
	KW	1.6	1.6	1.6	1.6	1.5	1.6	1.5	1.6	1.5	1.5	1.5	1.5	1.6	1.5	1.5
75	T.C.	20.9	23.0	22.6	25.0	27.5	22.6	23.6	23.2	25.2	27.5	24.4	24.2	23.8	25.4	27.4
	S.C.	20.1	18.6	15.6	15.9	12.7	21.9	21.0	18.0	17.9	13.9	23.6	23.4	20.4	20.0	15.2
	KW	1.8	1.7	1.8	1.7	1.7	1.7	1.7	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85	T.C.	20.3	21.9	21.6	24.2	26.4	21.8	22.5	22.2	24.3	26.3	23.2	23.0	22.7	24.4	26.2
	S.C.	19.7	18.1	15.1	15.4	12.4	21.1	20.2	17.5	17.5	13.6	22.5	22.3	19.8	19.6	14.8
	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
95	T.C.	19.7	20.9	20.6	23.4	25.4	20.9	21.4	21.1	23.4	25.2	22.1	21.9	21.7	23.4	25.0
	S.C.	19.2	17.6	14.6	15.0	12.1	20.3	19.4	16.9	17.1	13.2	21.4	21.2	19.2	19.2	14.3
	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	2.1
105	T.C.	18.9	19.8	19.4	22.1	24.1	19.8	20.3	19.9	22.1	23.9	20.8	20.8	20.4	22.0	23.6
	S.C.	18.3	17.0	14.1	14.5	11.6	19.2	18.6	16.3	16.6	12.8	20.2	20.1	18.5	18.7	13.9
	KW	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
115	T.C.	18.0	18.8	18.3	20.9	22.9	18.8	19.2	18.7	20.8	22.6	19.6	19.7	19.1	20.8	22.3
	S.C.	17.5	16.5	13.6	14.1	11.2	18.2	17.8	15.7	16.1	12.3	18.9	19.1	17.8	18.2	13.5
	KW	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
125	T.C.	17.1	17.7	17.3	19.6	21.7	17.7	18.2	17.5	19.5	21.3	18.3	18.6	17.8	19.5	21.0
	S.C.	16.6	16.0	13.0	13.6	10.8	17.2	17.0	15.0	15.6	11.9	17.7	18.1	17.0	17.7	13.1
	KW	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.9	2.8	2.8	2.8	2.8	2.9
NOTE: ALL CAPACITIES ARE NET WITH INDOOR FAN HEAT ALREADY DEDUCTED 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
MV12B	FC/MC24B	1.03	1.04	0.94
MV12B	FC/MC30B	1.03	1.04	0.94
MV12B	FC/MC36B	1.03	1.04	0.94
MV12B	G4FD030H17T2A	1.03	1.04	0.94
MV12B	G4FD036H17T2A	1.03	1.04	0.94
MV16C	FC/MC36C	1.03	1.04	0.94
AHP24	—	1.00	1.00	1.00
F4FP030H06T2A	—	1.00	1.00	1.00
—	FC/MC/PC24	1.00	1.00	1.00
—	FC/MC/PC30	1.00	1.00	1.00
—	FC/MC/PC36	1.00	1.00	1.00
—	G4FA036S17T2A	1.00	1.00	1.00
—	G4FA036S21T2A	1.00	1.00	1.00
—	G4FD030H17T2A	1.00	1.00	1.00
—	G4FD035H14T2A	1.00	1.00	1.00
—	G4FD036H17T2A	1.00	1.00	1.00
—	HC30	1.00	1.00	1.00
—	UC24	1.00	1.00	1.00
—	UC30	1.00	1.00	1.00
—	UC36	1.00	1.00	1.00

Variable Speed Furnace	Coil	T.C.	S.C.	KW
PV8*A12	FC/MC/PC24A	1.02	1.02	0.97
PV9*A12	FC/MC/PC24A	1.02	1.02	0.97
PV8*B16	FC/MC/PC24B	1.02	1.02	0.97
PV9*B12	FC/MC/PC24B	1.02	1.02	0.97
PV8*A12	FC/MC/PC30A	1.02	1.02	0.97
PV9*A12	FC/MC/PC30A	1.02	1.02	0.97
PV8*B16	FC/MC/PC30B	1.02	1.02	0.97
PV9*B12	FC/MC/PC30B	1.02	1.02	0.97
PV8*A12	FC/MC/PC36A	1.02	1.02	0.97
PV8*B16	FC/MC/PC36B	1.02	1.02	0.97
PV9*A12	FC/MC/PC36A	1.02	1.02	0.97
PV9*B12	FC/MC/PC36B	1.02	1.02	0.97
PV8*B16	G4FA036S17T2A	1.01	1.01	0.96
PV9*B12	G4FA036S17T2A	1.02	1.02	0.97
PV8*B16	G4FD030H17T2A	1.01	1.01	0.96
PV9*B12	G4FD030H17T2A	1.01	1.01	0.96
PV8*A12	G4FD035H14T2A	1.01	1.01	0.96
PV9*A12	G4FD035H14T2A	1.01	1.01	0.96
PV8*B16	G4FD036H17T2A	1.02	1.02	0.97
PV9*B12	G4FD036H17T2A	1.02	1.02	0.97
PV8*A12	HC30	1.02	1.02	0.97
PV9*A12	HC30	1.02	1.02	0.97

COOLING PERFORMANCE DATA																	
AIR CONDITIONER MODEL NO.		AY030MA321															
INDOOR COIL MODEL NO.		G2FD036S17															
CONDENSER ENTERING AIR TEMPERATUR	ID CFM	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.	27.2	30.0	29.5	32.7	35.7	28.7	30.4	30.1	33.0	35.7	30.1	30.7	30.6	33.4	35.6	
	S.C.	25.6	24.4	20.7	20.5	16.4	27.1	26.7	23.0	22.6	17.8	28.6	29.0	25.4	24.7	19.2	
	KW	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	2.0	2.0	
75	T.C.	26.6	28.8	28.4	31.4	34.3	28.0	29.2	28.8	31.6	34.3	29.3	29.6	29.3	31.8	34.3	
	S.C.	25.1	23.7	20.0	20.0	15.9	16.4	25.8	22.1	22.1	17.2	27.8	28.0	24.2	24.1	18.5	
	KW	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
85	T.C.	26.1	27.6	27.2	30.1	32.9	27.2	28.1	27.6	30.2	33.0	28.4	28.5	28.0	30.3	33.0	
	S.C.	24.5	22.9	19.2	19.5	15.5	25.7	25.0	21.1	21.5	16.6	27.0	27.1	23.0	23.6	17.8	
	KW	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	
95	T.C.	25.5	26.4	26.1	28.9	31.5	26.5	26.9	26.4	28.8	31.6	27.5	27.4	26.6	28.7	31.7	
	S.C.	23.9	22.2	18.5	19.0	15.0	25.0	24.2	20.2	21.0	16.0	26.2	26.1	21.8	23.0	17.1	
	KW	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.7	2.6	2.6	2.6	2.6	2.7	
105	T.C.	24.6	25.3	25.0	27.5	30.2	25.5	25.8	25.3	27.5	30.2	26.4	26.3	25.5	27.5	30.1	
	S.C.	23.0	21.8	18.1	18.4	14.6	24.1	23.4	19.8	20.5	15.7	25.1	25.0	21.6	22.6	16.8	
	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	2.9	2.9	3.0	
115	T.C.	23.7	24.2	24.0	26.3	28.9	24.5	24.7	24.2	26.3	28.8	25.3	25.1	24.4	26.3	28.6	
	S.C.	22.2	21.4	17.6	17.9	14.3	23.2	22.6	19.5	20.1	15.4	24.1	23.9	21.4	22.2	16.4	
	KW	3.1	3.1	3.1	3.1	3.2	3.1	3.1	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2	
125	T.C.	22.8	23.2	23.0	25.0	27.7	23.5	23.6	23.2	25.1	27.4	24.3	23.9	23.4	25.1	27.1	
	S.C.	21.4	21.0	17.2	17.4	14.0	22.3	21.9	19.2	19.6	15.0	23.1	22.8	21.3	21.8	16.1	
	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	
NOTE: ALL CAPACITIES ARE NET WITH INDOOR FAN HEAT ALREADY DEDUCTED 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
MV12B	FC/MC36B	1.01	1.02	0.97
MV12B	FC/MC42B	1.02	1.03	0.98
MV12B	G4FD036H17T2A	1.01	1.02	0.97
MV12B	G4FD046H17T2A	1.02	1.03	0.98
MV16C	FC/MC36C	1.02	1.03	0.98
MV16C	FC/MC42C	1.02	1.03	0.98
MV16C	G4FD036H21T2A	1.02	1.03	0.98
MV16C	G4FD042H21T2A	1.02	1.03	0.98
AHP36	—	1.00	1.00	1.00
—	FC/MC/PC36	1.00	1.00	1.00
—	FC/MC/PC42	1.00	1.00	1.00
—	G4FA048S17T2A	1.00	1.00	1.00
—	G4FD036H17T2A	1.00	1.00	1.00
—	G4FD036H21T2A	1.00	1.00	1.00
—	G4FD042H21T2A	1.00	1.00	1.00
—	G4FD046H17T2A	1.00	1.00	1.00
—	HC30	1.00	1.00	1.00
—	UC36	1.00	1.00	1.00
—	UC42	1.00	1.00	1.00

Variable Speed Furnace	Coil	T.C.	S.C.	KW
PV8*A12	FC/MC/PC36A	1.01	1.01	1.01
PV8*B16	FC/MC/PC36B	1.02	1.03	0.98
PV8*C16	FC/MC/PC36C	1.0	1.03	0.98
PV8*C20	FC/MC/PC36C	1.02	1.03	0.94
PV9*A12	FC/MC/PC36A	1.01	1.01	1.01
PV9*B12	FC/MC/PC36B	1.01	1.02	1.01
PV9*C16	FC/MC/PC36C	1.01	1.02	0.97
PV9*C20	FC/MC/PC36C	1.01	1.02	0.97
PV8*B16	FC/MC/PC42B	1.02	1.03	0.98
PV8*C16	FC/MC/PC42C	1.02	1.03	0.94
PV8*C20	FC/MC/PC42C	1.02	1.03	0.94
PV9*B12	FC/MC/PC42B	1.01	1.02	0.97
PV9*C16	FC/MC/PC42C	1.01	1.02	0.97
PV9*C20	FC/MC/PC42C	1.01	1.02	0.97
PV8*B16	G4FA048S17T2A	1.02	1.03	0.98
PV9*B12	G4FA048S17T2A	1.01	1.02	0.97
PV8*B16	G4FD036H17T2A	1.0	1.03	0.98
PV9*B12	G4FD036H17T2A	1.01	1.02	1.01
PV8*C16	G4FD036H21T2A	1.02	1.03	0.98
PV8*C20	G4FD036H21T2A	1.02	1.03	0.94
PV9*C16	G4FD036H21T2A	1.01	1.02	0.97
PV9*C20	G4FD036H21T2A	1.01	1.02	0.97
PV8*C16	G4FD042H21T2A	1.02	1.03	0.94
PV8*C20	G4FD042H21T2A	1.02	1.03	0.94
PV9*C16	G4FD042H21T2A	1.01	1.02	0.97
PV9*C20	G4FD042H21T2A	1.01	1.02	0.97
PV8*B16	G4FD046H17T2A	1.02	1.03	0.98
PV9*B12	G4FD046H17T2A	1.02	1.03	0.98
PV8*A12	HC30	1.01	1.01	1.01
PV9*A12	HC30	1.01	1.01	1.01

COOLING PERFORMANCE DATA																
AIR CONDITIONER MODEL NO.		AY036MA321														
INDOOR COIL MODEL NO.		G2FD042S21														
CONDENSER ENTERING AIR TEMPERATURE	ID CFM	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.	32.8	38.1	37.1	40.4	46.6	35.6	38.7	37.7	41.4	46.9	38.3	39.3	38.4	42.3	47.2
	S.C.	32.8	30.6	25.5	25.6	21.0	35.4	33.3	27.6	27.8	22.0	37.5	36.0	29.8	29.9	22.9
	KW	2.5	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
75	T.C.	32.0	35.9	35.4	38.5	43.7	34.2	36.6	35.9	39.4	44.1	36.4	37.2	36.4	40.3	44.4
	S.C.	32.0	29.6	24.8	24.8	20.5	33.8	32.3	26.9	27.0	21.7	35.6	34.9	29.0	29.2	22.9
	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
85	T.C.	31.2	33.8	33.7	36.6	40.9	32.9	34.5	34.1	37.4	41.3	34.5	35.2	34.5	38.2	41.6
	S.C.	30.7	28.6	24.1	23.9	20.0	32.2	31.2	26.2	26.2	21.4	33.6	33.9	28.2	28.5	22.8
	KW	2.9	2.9	2.9	3.0	3.0	2.9	2.9	2.9	3.0	3.1	3.0	3.0	2.9	3.0	3.1
95	T.C.	30.4	31.6	32.0	34.7	38.0	31.5	32.3	32.3	35.4	38.4	32.6	33.1	32.5	36.1	38.9
	S.C.	29.3	27.6	23.4	23.1	19.5	30.5	30.2	25.4	25.4	21.1	31.7	32.8	27.4	27.7	22.7
	KW	3.1	3.1	3.1	3.2	3.3	3.1	3.2	3.1	3.2	3.3	3.2	3.2	3.2	3.2	3.3
105	T.C.	28.7	29.5	29.8	32.5	35.7	29.9	30.4	30.2	33.1	36.1	31.0	31.2	30.5	33.6	36.6
	S.C.	27.8	26.5	22.5	22.4	18.6	28.9	28.8	24.4	24.6	20.1	30.0	31.0	26.4	26.8	21.6
	KW	3.3	3.3	3.3	3.4	3.5	3.4	3.4	3.3	3.4	3.5	3.4	3.4	3.4	3.5	3.6
115	T.C.	27.1	27.6	27.7	30.4	33.5	28.3	28.5	28.2	30.8	33.9	29.4	29.4	28.6	31.2	34.3
	S.C.	26.2	25.4	21.6	21.7	17.7	27.2	27.4	23.5	23.8	19.1	28.3	29.3	25.3	25.9	20.5
	KW	3.5	3.5	3.5	3.6	3.7	3.6	3.6	3.5	3.7	3.8	3.6	3.6	3.6	3.7	3.8
125	T.C.	25.4	25.6	25.6	28.2	31.3	26.6	26.6	26.1	28.5	31.7	27.8	27.6	26.7	28.8	32.0
	S.C.	24.7	24.3	20.7	21.0	16.8	25.6	25.9	22.5	23.0	18.1	26.6	27.5	24.3	24.9	19.4
	KW	3.7	3.7	3.7	3.8	4.0	3.8	3.8	3.7	3.9	4.0	3.9	3.9	3.8	3.9	4.0
NOTE: ALL CAPACITIES ARE NET WITH INDOOR FAN HEAT ALREADY DEDUCTED 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
MV12B	FC/MC42B	1.01	1.02	1.01
MV12B	G4FD046H17T2A	1.01	1.02	1.01
MV16C	FC/MC42C	1.02	1.02	0.97
MV16C	FC/MC48C	1.02	1.02	0.97
MV16C	G4FD042H21T2A	1.02	1.02	0.97
MV16C	G4FD048H21T2A	1.02	1.02	0.97
MV20D	FC/MC48D	1.02	1.02	0.97
MV20D	G4FD048H24T2A	1.02	1.02	0.97
AHP42	—	1.00	1.00	1.00
F4FP042H06T2A	—	1.00	1.00	1.00
—	FC/MC/PC42	1.00	1.00	1.00
—	FC/MC/PC48	1.00	1.00	1.00
—	G4FA048S17T2A	1.00	1.00	1.00
—	G4FA048S21T2A	1.00	1.00	1.00
—	G4FD042H21T2A	1.00	1.00	1.00
—	G4FD046H17T2A	1.00	1.00	1.00
—	G4FD048H21T2A	1.00	1.00	1.00
—	G4FD048H24T2A	1.00	1.00	1.00
—	HC48	1.00	1.00	1.00
—	UC42	1.00	1.00	1.00
—	UC48	1.00	1.00	1.00

Variable Speed Furnace	Coil	T.C.	S.C.	KW
PV8*B16	FC/MC/PC42B	1.01	1.02	0.97
PV8*C16	FC/MC/PC42C	1.02	1.02	0.97
PV8*C20	FC/MC/PC42C	1.02	1.02	0.97
PV9*B12	FC/MC/PC42B	1.01	1.01	1.01
PV9*C16	FC/MC/PC42C	1.01	1.02	1.01
PV9*C20	FC/MC/PC42C	1.01	1.02	1.01
PV8*C16	FC/MC/PC48C	1.02	1.02	0.97
PV8*C20	FC/MC/PC48C	1.02	1.02	0.97
PV9*C16	FC/MC/PC48C	1.01	1.02	0.97
PV9*C20	FC/MC/PC48C	1.01	1.02	0.97
PV9*D20	FC/MC/PC48D	1.01	1.02	0.97
PV8*B16	G4FA048S17T2A	1.01	1.02	0.97
PV9*B12	G4FA048S17T2A	1.01	1.01	1.01
PV8*C16	G4FA048S21T2A	1.02	1.02	0.97
PV8*C20	G4FA048S21T2A	1.02	1.02	0.97
PV9*C16	G4FA048S21T2A	1.01	1.02	1.01
PV9*C20	G4FA048S21T2A	1.01	1.02	1.01
PV8*C16	G4FD042H21T2A	1.02	1.02	0.97
PV8*C20	G4FD042H21T2A	1.02	1.02	0.97
PV9*C16	G4FD042H21T2A	1.01	1.02	1.01
PV9*C20	G4FD042H21T2A	1.01	1.02	1.01
PV8*B16	G4FD046H17T2A	1.01	1.02	0.97
PV9*B12	G4FD046H17T2A	1.01	1.01	1.01
PV8*C16	G4FD048H21T2A	1.02	1.02	0.97
PV8*C20	G4FD048H21T2A	1.02	1.02	0.97
PV9*C16	G4FD048H21T2A	1.01	1.02	0.97
PV9*C20	G4FD048H21T2A	1.01	1.02	0.97
PV9*D20	G4FD048H24T2A	1.01	1.02	0.97
PV8*C16	HC48	1.02	1.02	0.97
PV8*C20	HC48	1.02	1.02	0.97
PV9*C16	HC48	1.01	1.02	1.01

NOTES

246814-YTG-D-0606
Supersedes: 246814-YTG-C-0506