

TECHNICAL GUIDE

SPLIT-SYSTEM AIR CONDITIONERS

13 SEER – R-22

MODELS:
AC018X13 THRU 060
(1.5 THRU 5 NOMINAL TONS, 1 PHASE)

AC018X13 THRU 060
(2.5 THRU 5 NOMINAL TONS, 3 PHASE)



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, 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.

Three Phase Units:

1-year limited parts warranty.

5-year limited compressor warranty.

FEATURES

- **QUALITY CONDENSER COILS** - The coil is constructed of copper tube and aluminum fins.
- **PROTECTED COMPRESSOR** - The compressor is internally protected against high pressure and temperature. This is accomplished by the simultaneous operation of high pressure relief valve and a temperature sensor which protects the compressor if undesirable operating conditions occur. A liquid line filter-drier further protects the compressor.
- **DURABLE FINISH** - The cabinet is made of pre-painted steel. The pre-treated galvanized steel provides a better paint to steel bond, which resists corrosion and rust creep. Special primer formulas and matted-textured finish insure less fading when exposed to sunlight.
- **LOWER INSTALLED COST** - Installation time and costs are reduced by easy power and control wiring connections. Discharge line heat exchanger knockouts are provided, if required. 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, a single panel covering the electrical controls, and the mox plug in the control box connecting the condenser fan 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 - 1 Phase

MODEL		AC018X1322	AC024X1322	AC030X1322	AC036X1322	AC042X1322	AC048X1322	AC060X1322
Unit Supply Voltage		208-230V, 1 ϕ , 60Hz						
Normal Voltage Range ¹		187 to 252						
Minimum Circuit Ampacity		9.4	11.8	15.1	18.3	18.3	30.3	32.7
Max. Overcurrent Device Amps ²		15	20	25	30	30	50	50
Min. Overcurrent Device Amps ³		15	15	20	20	20	35	35
Compressor Type ⁴		Recip	Recip	Recip	Recip	Recip	Scroll ^D	Scroll ^D
Compressor Amps	Rated Load	6.4	9.0	10.7	13.4	13.5	23.0	25.0
	Locked Rotor	36	48	61	78	78	115	150
Crankcase Heater		No	No	No	No	No	No	No
Fan Motor Amps	Rated Load	0.8	0.5	1.5	1.5	1.5	1.5	1.5
Fan Diameter Inches		18	22	22	22	22	24	24
Fan Motor	Rated HP	1/8	1/15	1/4	1/4	1/4	1/4	1/4
	Nominal RPM	1075	850	850	850	850	850	850
	Nominal CFM	2150	2,200	3100	3150	3550	3550	3600
Coil	Face Area Sq. Ft.	11.43	15.72	15.72	15.72	23.60	24.00	27.00
	Rows Deep	1	1	1	1	1	1	1
	Fin / Inches	22	18	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.) ⁵		4 - 9	6 - 3	5 - 13	6 - 0	8 - 13	8 - 6	10 - 2
Charge Per Foot, Oz.		0.68	0.68	0.70	0.70	0.70	0.70	0.76
Operating Weight Lbs.		151	151	183	183	193	215	220

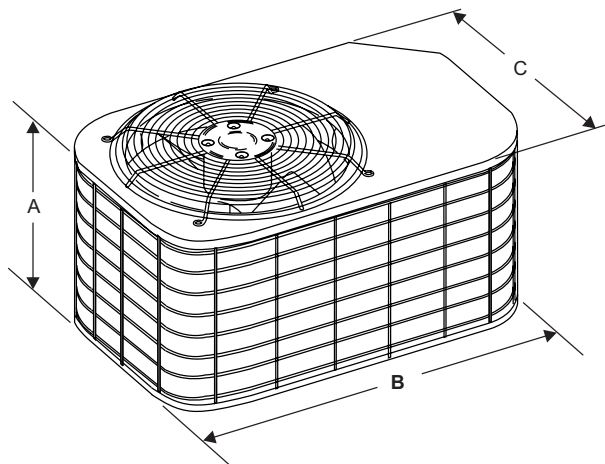
1 Rated in accordance with ARI Standard 110, utilization range "A".

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 All scrolls listed with a superscript "D" are Danfoss scrolls. All scrolls listed with a superscript "C" are Copeland scrolls.

5 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 and include the fan guard. 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
018	23	35	23	3/8"	3/4"
024	27	37	27		
030	27	37	27		
036	27	37	27		7/8"
042	39	37	27		
048	34	43	32		
060	38	43	32		7/8"

¹ Including Fan Guard.

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

Additional R-22 Charge / Orifice Size for Various Matched Systems - 1 Phase							
Outdoor Unit	AC018X1322	AC024X1322	AC030X1322	AC036X1322	AC042X1322	AC048X1322	AC060X1322
Required TXV	1TVM2A1	1TVM2A1 or 1TVM2B1	1TVM2A1	1TVM2A1	1TVM2C1	1TVM2C1	1TVM2C1
Factory R-22 Charge, lbs-oz	4 - 9	6 - 3	5 - 13	6 - 0	8 - 13	8 - 6	10 - 2
Indoor Coil ^{1,2}	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/UC36A2A	—	—	0	0	—	—	—
FC/MC/PC/UC36B2A	—	—	0	0	—	—	—
FC/MC/PC/UC36C2A	—	—	0	0	—	—	—
FC/MC/PC/UC42B2C	—	—	—	—	0	—	—
FC/MC/PC/UC42C2C	—	—	—	—	0	—	—
FC/MC/PC/UC48C2C	—	—	—	—	0	0	—
FC/MC/PC/UC48D2C	—	—	—	—	0	0	—
FC/PC/UC60C2C	—	—	—	—	—	—	0
FC/MC/PC/UC60D2C	—	—	—	—	—	—	0
MC61D2C	—	—	—	—	—	—	0
HC18A2A	0	—	—	—	—	—	—
HC30A2A	—	0	0	—	—	—	—
HC36B2A	—	—	0	0	—	—	—
HC42C2C	—	—	—	—	0	—	—
HC60C2C	—	—	—	—	—	0	0
HD24A2A	0	0	—	—	—	—	—
HD36B2A	—	—	0	0	—	—	—
HD48C2C	—	—	—	—	0	0	—
HD60D2C	—	—	—	—	—	0	0
AHP18B2A	0	—	—	—	—	—	—
AHP24B2A	0	0	—	—	—	—	—
AHP30B2A	—	0	0	—	—	—	—
AHP36C2A	—	—	0	0	—	—	—
AHP42C2C	—	—	—	0	0	—	—
AHP/SHP48D2C	—	—	—	—	0	0	—
AHP/SHP60D2C	—	—	—	0	0	0	0
FC/MC/PC/UC18A3X	0	2B + 1	—	—	—	—	—
FC/MC/PC/UC18B3X	0	2B + 1	—	—	—	—	—
FC/MC/PC/UC24A3X	0	2A + 0	—	—	—	—	—
FC/MC/PC/UC24B3X	0	2A + 0	—	—	—	—	—
FC/MC/PC/UC30A3X	—	2A + 0	0	—	—	—	—
FC/MC/PC/UC30B3X	—	2A + 0	0	—	—	—	—
FC/MC/PC/UC36A3X	—	—	0	0	—	—	—
FC/MC/PC/UC36B3X	—	—	0	0	—	—	—
FC/MC/PC/UC36C3X	—	—	0	0	—	—	—
FC/MC/PC/UC42B3X	—	—	—	—	0	—	—
FC/MC/PC/UC42X3X	—	—	—	—	0	—	—
FC/MC/PC/UC48C3X	—	—	—	—	0	0	—
FC/MC/PC/UC48D3X	—	—	—	—	0	0	—
FC/PC/UC60C3X	—	—	—	—	—	—	0
FC/MC/PC/UC60D3X	—	—	—	—	—	—	0
MC61D3X	—	—	—	—	—	—	0
HC18A3X	0	2B + 1	—	—	—	—	—
HC30A3X	—	2A + 0	0	—	—	—	—
HC36B3X	—	—	0	0	—	—	—
HC42C3X	—	—	—	—	0	—	—
HC60C3X	—	—	—	—	—	0	0

For Notes See Page 4.

Additional R-22 Charge / Orifice Size for Various Matched Systems - 1 Phase (Continued)							
Outdoor Unit	AC018X1322	AC024X1322	AC030X1322	AC036X1322	AC042X1322	AC048X1322	AC060X1322
Required TXV	1TVM2A1	1TVM2A1 or 1TVM2B1	1TVM2A1	1TVM2A1	1TVM2C1	1TVM2C1	1TVM2C1
Factory R-22 Charge, lbs-oz	4 - 9	6 - 3	5 - 13	6 - 0	8 - 13	8 - 6	10 - 2
Indoor Coil^{1,2}	Additional Charge, Oz						
HD24A3X	0	2A + 0	—	—	—	—	—
HD36B3X	—	—	0	0	—	—	—
HD48C3X	—	—	—	—	0	0	—
HD60D3X	—	—	—	—	—	0	0
AHP18B3X	0	—	—	—	—	—	—
AHP24B3X	0	2A + 0	—	—	—	—	—
AHP30B3X	—	2A + 0	0	—	—	—	—
AHP36C3X	—	—	0	0	—	—	—
AHP42C3X	—	—	—	—	0	—	—
AHP/SHP48D3X	—	—	—	—	0	0	—
AHP/SHP60D3X	—	—	—	0	0	0	0
F4FP024H06T2A	0	—	—	—	—	—	—

FOOTNOTES:

- 1 Systems matched with furnace or air handlers not equipped with blower-off delays may require blower Time Delay Kit 2FD06700224.
 - 2 PC coils cannot be used in downflow or horizontal applications. FC coils cannot be used in horizontal applications.
 - 3 1TVM2B TXV kit must be used with these coils to obtain system performance.
- * This loose coil match does not achieve 13 SEER.

PROCEDURES:

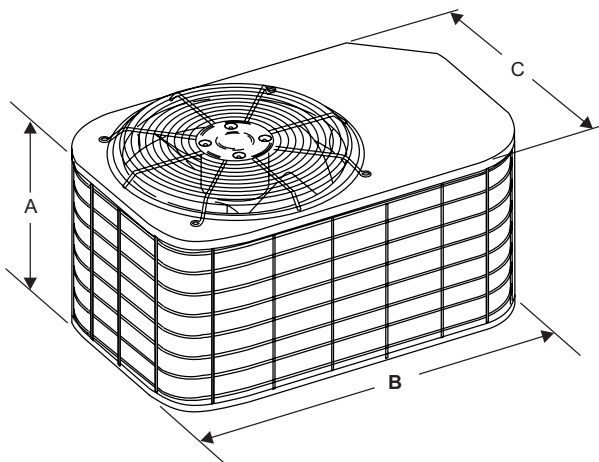
1. Unit factory charge listed on the unit nameplate includes refrigerant for the condenser, the smallest evaporator and 15 feet of inter-connecting line tubing.
2. Verify the TXV and additional charge required for specific evaporator coil in the system using the above table.
3. Additional charge for 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.

PHYSICAL AND ELECTRICAL DATA - 3 Phase

MODEL		AC030 X1331	AC036 X1331	AC042 X1331	AC048 X1331	AC060 X1331	AC030 X1341	AC036 X1341	AC042 X1341	AC048 X1341	AC060 X1341
Unit Supply Voltage		208-230V, 3 ϕ , 60Hz					460V, 3 ϕ , 60Hz				
Normal Voltage Range ¹		187 to 252					432 to 504				
Minimum Circuit Ampacity		14.3	14.3	12.4	21.5	23.1	6.9	9.6	6.9	10.3	11.3
Max. Overcurrent Device Amps ²		20	20	20	35	40	15	15	15	15	15
Min. Overcurrent Device Amps ³		15	15	15	25	25	15	15	15	15	15
Compressor Type ⁴		Recip	Recip	Recip	Scroll ^D	Scroll ^D	Recip	Recip	Recip	Scroll ^D	Scroll ^D
Compressor Amps	Rated Load	10.2	10.2	8.8	16.0	17.3	4.9	4.9	4.9	7.7	8.4
	Locked Rotor	72	72	72	115	123	45	45	45	50	70
Crankcase Heater		No	No	No	No	No	No	No	No	No	No
Fan Motor Amps	Rated Load	1.5	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7
	Locked Rotor	72	72	72	115	123	45	45	45	50	70
Fan Diameter Inches		22	22	22	22	24	22	22	22	24	24
Fan Motor	Rated HP	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
	Nominal RPM	850	850	850	850	850	850	850	850	850	850
	Nominal CFM	3100	3150	3550	3550	3600	3100	3150	3550	3550	3600
Coil	Face Area Sq. Ft.	15.72	15.72	23.60	24.00	27.00	15.72	15.72	23.60	24.00	27.00
	Rows Deep	1	1	1	1	1	1	1	1	2	2
	Fin / Inches	22	22	22	22	22	22	22	22	18	18
Liquid Line Set OD (Field Installed)		3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Vapor Line Set OD (Field Installed)		3/4	7/8	7/8	7/8	1-1/8	3/4	7/8	7/8	7/8	1-1/8
Unit Charge (Lbs. - Oz.) ⁵		5 - 13	6 - 0	8 - 13	8 - 6	10 - 2	5 - 13	6 - 0	8 - 13	8 - 6	10 - 2
Charge Per Foot, Oz.		0.68	0.70	0.70	0.70	0.76	0.68	0.70	0.70	0.70	0.76
Operating Weight Lbs.		208	208	208	215	294	208	208	215	250	294

- 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 All scrolls listed with a superscript "D" are Danfoss scrolls. All scrolls listed with a superscript "C" are Copeland scrolls.
- 5 The Unit Charge is correct for the outdoor unit, matched indoor coil and 15 feet of refrigerant tubing. For tubing lengths other than 15 feet, add or subtract the amount of refrigerant, using the difference in length multiplied by the per foot value.

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

DIMENSIONS

Unit Model	Dimensions (Inches)			Refrigerant Connection Service Valve Size	
	A ¹	B	C	Liquid	Vapor
030	27	37	27	3/8"	3/4"
036	27	37	27		7/8"
042	39	37	27		
048	34	43	32		
060	38	43	32		7/8"

1 Including Fan Guard.

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

Additional R-22 Charge / Orifice Size for Various Matched Systems - 3 Phase					
Outdoor Unit	AC030X13(31,41)	AC036X13(31,41)	AC042X13(31,41)	AC048X13(31,41)	AC060X13(31,41)
Required TXV	1TVM2A1	1TVM2A1	1TVM2C1	1TVM2C1	1TVM2C1
Factory R-22 Charge, lbs-oz	5 - 13	6 - 0	8 - 13	8 - 6	10 - 2
Indoor Coil ¹	Additional Charge, Oz				
FC/MC/PC/UC30A2A	0	—	—	—	—
FC/MC/PC/UC30B2A	0	—	—	—	—
FC/MC/PC/UC36A2A	0	0	—	—	—
FC/MC/PC/UC36B2A	0	0	—	—	—
FC/MC/PC/UC36C2A	0	0	—	—	—
FC/MC/PC/UC42B2C	—	—	0	—	—
FC/MC/PC/UC42C2C	—	—	0	—	—
FC/MC/PC/UC48C2C	—	—	0	0	—
FC/MC/PC/UC48D2C	—	—	0	0	—
FC/PC/UC60C2C	—	—	—	—	0
FC/MC/PC/UC60D2C	—	—	—	—	0
MC61D2C	—	—	—	—	0
HC30A2A	0	—	—	—	—
HC36B2A	0	0	—	—	—
HC42C2C	—	—	0	0	—
HC60C2C	—	—	—	0	0
HD36B2A	0	0	—	—	—
HD48C2C	—	—	0	0	—
HD60D2C	—	—	—	0	0
AHP30B2A	0	—	—	—	—
AHP36C2A	0	0	—	—	—
AHP42C2C	—	—	0	—	—
AHP/SHP48D2C	—	—	0	0	—
AHP/SHP60D2C	—	0	0	0	0
FC/MC/PC/UC30A3X	0	—	—	—	—
FC/MC/PC/UC30B3X	0	—	—	—	—
FC/MC/PC/UC36A3X	0	0	—	—	—
FC/MC/PC/UC36B3X	0	0	—	—	—
FC/MC/PC/UC36C3X	0	0	—	—	—
FC/MC/PC/UC42B3X	—	—	0	—	—
FC/MC/PC/UC43X3X	—	—	0	—	—
FC/MC/PC/UC48C3X	—	—	0	0	—
FC/MC/PC/UC48D3X	—	—	0	0	—
FC/PC/UC60C3X	—	—	—	—	0
FC/MC/PC/UC60D3X	—	—	—	—	0
MC61D3X	—	—	—	—	0
HC30A3X	0	—	—	—	—
HC36B3X	0	0	—	—	—
HC42C3X	—	—	0	0	—
HC60C3X	—	—	—	0	0
HD36B3X	0	0	—	—	—
HD48C3X	—	—	0	0	—
HD60D3X	—	—	—	0	0
AHP30B3X	0	—	—	—	—
AHP36C3X	0	0	—	—	—
AHP42C3X	—	—	0	—	—
AHP48D3X	—	—	0	0	—
AHP60D3X	—	0	0	0	0
F4FP040H06T2A	—	0	—	—	—

FOOTNOTES:

- 1 Systems matched with furnace or air handlers not equipped with blower-off delays may require blower Time Delay Kit 2FD06700224.

PROCEDURES:

- Unit factory charge listed on the unit nameplate includes refrigerant for the condenser, the smallest evaporator and 15 feet of inter-connecting line tubing.
- Verify the TXV and additional charge required for specific evaporator coil in the system using the above table.
- Additional charge for the amount of interconnecting line tubing greater than 15 feet at the rate specified in the table above.
- 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 HEAT KW ²	W		RATED CFM	NET MBH		SEER	EER	ARI #
						TOTAL	SENS.			
1 & 3 PH 13 SEER AC WITH MA										
AC018X1322	MA08B	2,5,8	17	FC/MC18B	600	17.5	11.7	13.00	11.00	
AC024X1322	MA08B	2,5,8	17	FC/MC24B	800	23.0	16.6	13.00	11.00	
AC030X1322	MA12B	5,8,10	17	FC/MC30B	1000	29.6	21.0	13.00	11.00	
	MA12B	5,8,10	17	FC/MC36B	1000	29.6	21.3	13.00	11.00	
AC030X13(31,41)	MA12B	10	17	FC/MC30B	1000	29.0	20.9	13.00	11.00	
	MA12B	10	17	FC/MC36B	1000	29.0	20.9	13.00	11.00	
AC036X1322	MA12B	5,8,10	17	FC/MC36B	1200	34.8	25.4	13.00	11.00	
AC036X13(31,41)	MA12B	10	17	FC/MC36B	1200	34.5	25.2	13.00	11.00	
AC042X1322	MA16C	5,8,10,15,18	21	FC/MC42C	1400	40.5	29.6	13.00	11.00	
	MA16C	5,8,10,15,18	21	FC/MC48C	1400	41.0	30.2	13.00	11.00	
	MA14D	5,8,10,15,18	24	FC/MC48D	1400	41.0	30.2	13.00	11.00	
AC042X13(31,41)	MA16C	10,15,18	21	FC/MC42C	1400	39.5	29.6	13.00	11.00	
	MA16C	10,15,18	21	FC/MC48C	1400	40.0	30.2	13.00	11.00	
	MA14D	10,15,18	24	FC/MC48D	1400	40.0	30.2	13.00	11.00	
AC048X1322	MA16C	5,8,10,15,18	21	FC/MC48C	1600	47.0	35.7	13.00	11.00	
	MA20D	8,10,15,20,25	24	FC/MC48D	1600	47.0	35.1	13.00	11.00	
AC048X13(31,41)	MA16C	10,15,18	21	FC/MC48C	1600	46.0	34.4	13.00	11.00	
	MA20D	10,15,18,20	24	FC/MC48D	1600	46.0	34.4	13.00	11.00	
AC060X1322	MA20D	5,8,10,15,20,25	24	FC/MC60D	1600	55.0	39.6	13.00	11.00	
	MA20D	5,8,10,15,20,25	24	MC61D	1800	55.5	40.0	13.00	11.00	
AC060X13(31,41)	MA20D	10,15,18,20	24	FC/MC60D	1600	54.5	39.3	13.00	11.00	
	MA20D	10,15,18,20	24	MC61D	1800	55.0	39.3	13.00	11.00	
1 & 3 PH 13 SEER AC WITH AHP / F*FP										
AC018X1322	AHP18	2,5,8	17	—	650	17.7	12.3	13.00	11.00	
	AHP24	2,5,8,10	17	—	655	17.9	12.5	13.50	11.00	
	F*FP024	5,8,10	17	—	650	17.5	12.2	13.00	11.00	
AC024X1322	AHP24	2,5,8,10	17	—	830	23.0	16.8	13.00	11.00	
	AHP30	5,8,10	17	—	795	23.6	17.0	13.00	11.00	
	F*FP030	5,8,10,15	17	—	800	23.0	16.8	13.00	11.00	
AC030X1322	AHP30	5,8,10	17	—	1015	30.0	21.9	13.00	11.00	
	AHP36	5,8,10,15,18	17	—	1040	30.0	22.6	13.50	11.00	
	F*FP036	5,8,10,15,19	21	—	1000	29.6	21.3	13.00	11.00	
AC030X13(31,41)	AHP30	5,8,10	17	-	1015	29.7	21.7	13.00	11.00	
	AHP36	5,8,10,15,18	17	-	1040	29.7	22.4	13.50	11.00	
	F*FP036	5,8,10,15,19	21	-	1000	29.3	21.1	13.00	11.00	
AC036X1322	AHP36	5,8,10,15,18	17	—	1235	35.0	27.2	13.50	11.00	
	AHP42	5,8,10,15,18	21	—	1255	35.0	27.5	13.50	11.00	
	AHP60	5,8,10,15,20,25	24	—	1200	36.0	26.7	14.00	11.50	
	F*FP040	5,8,10,15	21	—	1200	34.8	25.4	13.00	11.00	
AC036X13(31,41)	AHP36	5,8,10,15,18	17	—	1235	34.7	27.0	13.50	11.00	
	AHP42	5,8,10,15,18	21	—	1255	34.7	27.3	13.50	11.00	
	AHP60	5,8,10,15,20,25	24	—	1200	35.7	26.5	14.00	11.50	
	F*FP040	5,8,10,15	24	—	1200	34.5	25.2	13.00	11.00	
AC042X1322	AHP42	5,8,10,15,18	21	—	1485	41.0	31.0	13.00	11.00	
	AHP48	5,8,10,15,20	24	—	1400	42.0	30.7	13.50	11.00	
	AHP60	5,8,10,15,20,25	24	—	1400	40.5	33.2	14.00	11.50	
AC042X13(31,41)	AHP42	5,8,10,15,18	21	-	1485	40.0	30.3	13.00	11.00	
	AHP48	5,8,10,15,20	24	-	1400	41.0	30.0	13.50	11.00	
	AHP60	5,8,10,15,20,25	24	-	1400	39.5	32.5	14.00	11.50	

For Notes See Page 8.

COOLING CAPACITY - With Air Handler Coils (Continued)

UNIT MODEL	AIR HANDLER			COIL MODEL ¹	COOLING					
	MODEL	ELECTRIC HEAT KW ²	W		RATED CFM	NET MBH		SEER	EER	ARI #
						TOTAL	SENS.			
AC048X1322	AHP48	5,8,10,15,20	24	—	1675	47.0	36.8	13.00	11.00	
	AHP60	5,8,10,15,20,25	24	—	1600	47.0	36.2	13.75	11.00	
AC048X13(31,41)	AHP48	5,8,10,15,20	24	—	1675	46.0	36.1	13.00	11.00	
	AHP60	5,8,10,15,20,25	24	—	1600	46.0	35.5	13.75	11.00	
AC060X1322	AHP60	5,8,10,15,20,25	24	—	1850	55.0	40.3	13.00	11.00	
AC060X13(31,41)	AHP60	5,8,10,15,20,25	24	—	1850	54.0	39.6	13.00	11.00	

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

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

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

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

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

2 Single phase units require single phase 2HK heaters.

— = Not applicable.

Go to www.ari.org/ari-directory for the latest additional matches.

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	ARI #
					TOTAL	SENS.			
AC018X1322	450 750	14,17	FC/MC/PC/UC18	600	17.5	11.7	13.00	11.00	
		14,17	FC/MC/PC/UC24	600	17.7	11.9	13.00	11.00	
		14	HC18	600	17.5	11.7	13.00	11.00	
		—	HD24	600	18.0	12.1	13.00	11.00	
AC024X1322	600 1000	14,17	FC/MC/PC/UC24	800	23.0	16.6	13.00	11.00	
		14,17	FC/MC/PC/UC30	800	23.0	16.6	13.00	11.00	
		14	HC30	800	23.4	16.9	13.00	11.00	
		—	HD24	800	23.4	17.2	13.00	11.00	
AC030X1322	800 1200	14,17	FC/MC/PC/UC30	1000	29.6	21.0	13.00	11.00	
		14,17,21	FC/MC/PC/UC36	1000	29.6	21.3	13.00	11.00	
		14	HC30	1000	29.6	21.6	13.00	11.00	
		17	HC36	1000	30.0	21.9	13.00	11.00	
		-	HD36	1000	30.0	22.0	13.50	11.00	
AC036X1322	1000 1400	14,17,21	FC/MC/PC/UC36	1200	34.8	25.4	13.00	11.00	
		17	HC36	1200	35.0	25.6	13.00	11.00	
		—	HD36	1200	36.0	26.6	13.00	11.00	
AC036X13(31,41)	1000 1400	14,17,21	FC/MC/PC/UC36	1200	34.5	25.2	13.00	11.00	
		17	HC36	1200	34.7	25.4	13.00	11.00	
		—	HD36	1200	35.7	26.4	13.00	11.00	
AC042X1322	1200 1600	17,21	FC/MC/PC/UC42	1400	40.5	29.6	13.00	11.00	
		21,24	FC/MC/PC/UC48	1400	41.0	30.2	13.00	11.00	
		21	HC42	1400	41.0	29.9	13.00	11.00	
		—	HD48	1400	41.5	29.5	13.00	11.00	
AC048X1322	1400 1800	21,24	FC/MC/PC/UC48	1600	47.0	35.1	13.00	11.00	
		—	HD48	1600	47.0	34.8	13.00	11.00	
AC048X13(31,41)	1400 1800	21,24	FC/MC/PC/UC48	1600	46.0	34.4	13.00	11.00	
		—	HD48	1600	46.0	34.1	13.00	11.00	
AC060X1322	1600 2000	21,24	FC/MC/PC/UC60	1800	55.0	39.6	13.00	11.00	
		24	MC61	1800	55.5	40.0	13.00	11.00	
		24	HC60	1800	55.0	39.6	13.00	11.00	
		—	HD60	1800	55.0	39.9	13.00	11.00	
AC060X13(31,41)	1600 2000	21,24	FC/MC/PC/UC60	1800	54.5	39.3	13.00	11.00	
		24	MC61	1800	55.0	39.7	13.00	11.00	
		24	HC60	1800	54.5	39.3	13.00	11.00	
		—	HD60	1800	54.5	39.6	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.

ACCESSORIES

Refer to Price Manual for specific model numbers.

HARD START KIT - Provides increased starting torque for areas with low voltage.

COMPRESSOR BLANKET - Designed to further reduce the normal compressor operating sound. Refer to price pages for specific match-ups.

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

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

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

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

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

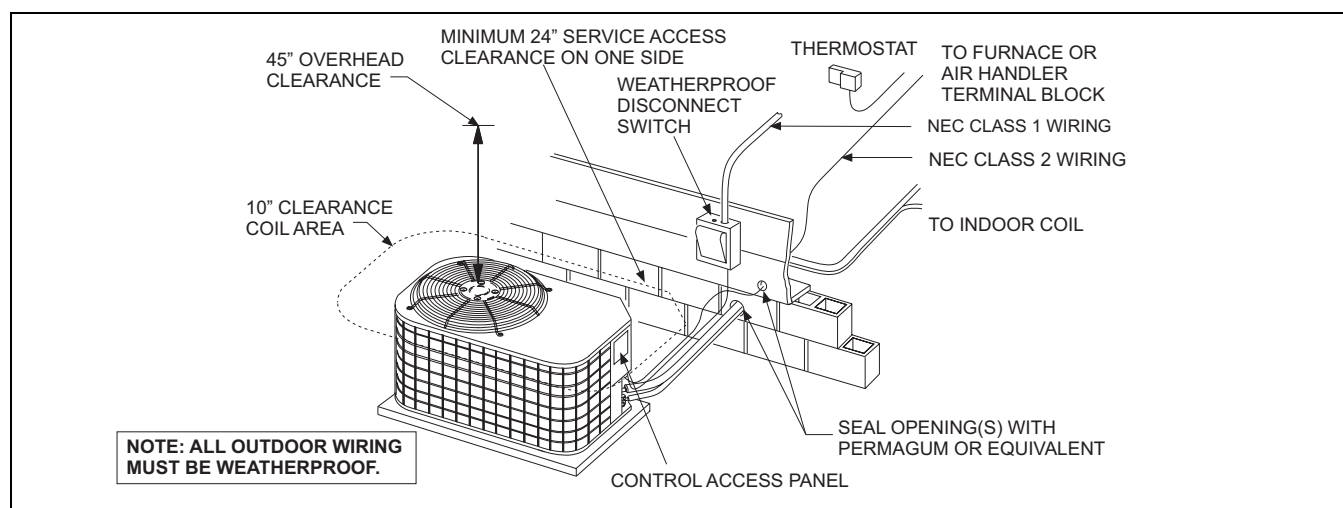
* For the most current accessory information, refer to the price book or consult factory.

SOUND POWER RATINGS*

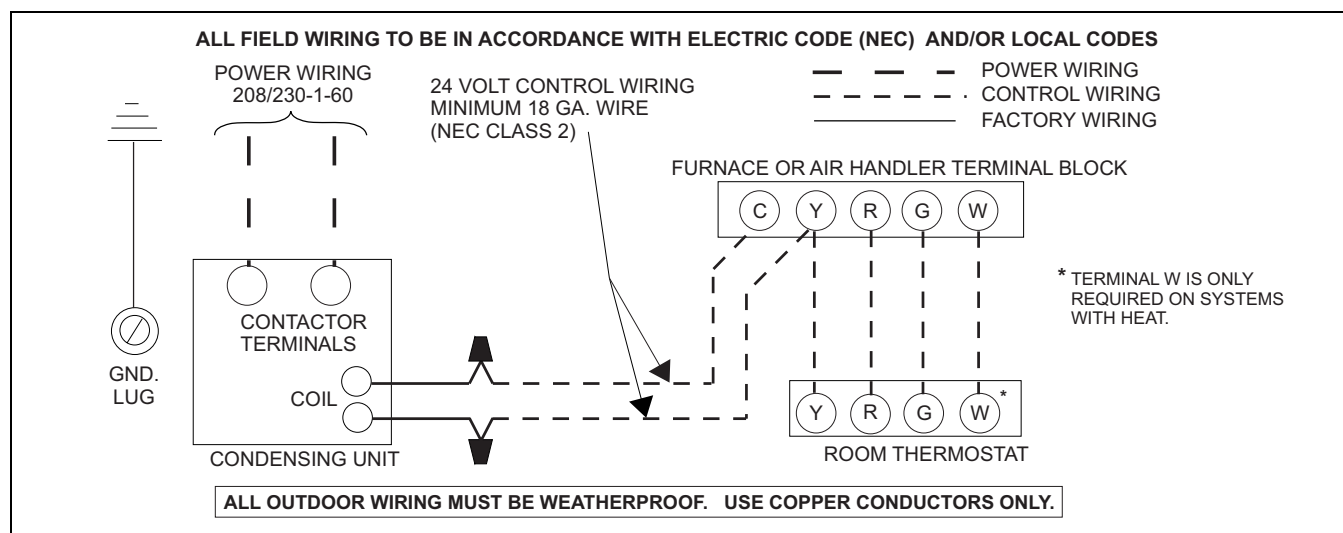
UNIT MODEL	(dBA)
018	75
024	74
030	75
036	75
042	76
048	76
060	76

* Rated in accordance with ARI 270-95 Standards.

TYPICAL INSTALLATION



TYPICAL FIELD WIRING - 1 Phase Application



COOLING PERFORMANCE DATA																
AIR CONDITIONER MODEL NO.		AC018X1322														
INDOOR COIL MODEL NO.		FC/MC/PC/UC18														
CONDENSING ENTERING AIR TEMPERATURE	IDCFM	450					600					750				
	ID DB (°F)	80	80	75	80	80	80	80	75	80	80	80	80	75	80	80
	ID WB (°F)	57	62	62	67	72	57	62	62	67	72	57	62	62	67	72
65	T.C.	15.4	17.8	18.0	21.0	22.6	17.3	18.9	18.8	21.1	22.6	19.2	19.9	19.5	21.2	22.7
	S.C.	15.1	13.5	11.8	12.2	9.6	17.0	15.8	13.2	13.3	10.0	18.9	18.2	14.5	14.4	10.5
	KW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
75	T.C.	14.6	16.8	16.8	19.4	21.2	16.3	17.6	17.4	19.6	21.3	17.9	18.4	18.0	19.8	21.4
	S.C.	14.4	13.0	11.1	11.5	9.1	16.0	15.1	12.5	12.6	9.5	17.6	17.2	13.8	13.6	10.0
	KW	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85	T.C.	13.9	15.8	15.5	17.9	19.9	15.3	16.4	16.0	18.1	19.9	16.6	17.0	16.6	18.3	20.0
	S.C.	13.7	12.5	10.5	10.7	8.6	15.0	14.3	11.7	11.8	9.0	16.4	16.1	13.0	12.9	9.4
	KW	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
95	T.C.	13.2	14.7	14.2	16.4	18.5	14.3	15.1	14.7	17.5	18.6	15.3	15.5	15.1	16.8	18.7
	S.C.	13.0	12.0	9.8	9.9	8.1	14.1	13.6	11.0	11.7	8.5	15.1	15.1	12.3	12.1	8.9
	KW	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
105	T.C.	12.3	13.5	13.1	15.2	17.1	13.2	13.9	13.4	15.3	17.1	14.1	14.2	13.8	15.4	17.1
	S.C.	12.1	11.5	9.3	9.5	7.5	13.0	12.7	10.5	10.5	8.0	13.9	13.9	11.7	11.6	8.4
	KW	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
115	T.C.	11.4	12.3	12.0	14.0	15.7	12.1	12.7	12.2	14.0	15.6	12.8	13.0	12.5	13.9	15.5
	S.C.	11.2	11.0	8.8	9.1	7.0	11.9	11.9	10.0	10.1	7.4	12.6	12.7	11.2	11.1	7.8
	KW	1.4	1.4	1.4	1.4	1.5	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.4	1.5	1.5
125	T.C.	10.5	11.1	10.9	12.8	14.3	11.0	11.4	11.0	12.6	14.1	11.6	11.7	11.2	12.5	13.9
	S.C.	10.3	10.5	8.4	8.6	6.5	10.9	11.1	9.5	9.6	6.9	11.4	11.6	10.7	10.6	7.3
	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	1.5	1.6	1.6
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
MA08B	MC18B	1.00	1.00	1.00
MA08B	MC24B	1.01	1.02	1.01
AHP18	—	1.01	1.05	1.01
AHP24	—	1.02	1.07	1.02
F*FP024	—	1.00	1.04	1.00
—	FC/MC/PC/UC24	1.01	1.02	1.01
—	HC18	1.00	1.00	1.00
—	HD24	1.03	1.03	1.03

COOLING PERFORMANCE DATA																
AIR CONDITIONER MODEL NO.			AC024X1322													
INDOOR COIL MODEL NO.			FC/MC/PC/UC24													
CONDENSING ENTERING AIR TEMPERATURE	IDCFM	600					800					1000				
	ID DB (°F)	80	80	75	80	80	80	80	75	80	80	80	80	75	80	80
	ID WB (°F)	57	62	62	67	72	57	62	62	67	72	57	62	62	67	72
75	T.C.	21.8	23.8	23.8	25.7	28.3	24.1	25.1	25.1	26.8	29.8	21.8	26.5	26.5	28.0	31.3
	S.C.	21.8	19.5	15.2	16.6	13.6	24.1	23.0	17.6	19.1	15.6	20.4	26.4	19.9	21.6	17.5
	KW	1.60	1.62	1.62	1.65	1.67	1.70	1.71	1.71	1.73	1.75	1.60	1.79	1.79	1.81	1.84
85	T.C.	20.4	21.9	21.9	24.2	26.4	21.4	23.6	23.6	25.3	27.7	22.5	25.3	25.3	26.3	29.0
	S.C.	20.4	18.6	14.2	16.1	13.0	21.4	21.8	16.4	18.7	14.9	22.1	25.0	18.5	21.3	16.8
	KW	1.71	1.72	1.72	1.77	1.79	1.77	1.82	1.82	1.85	1.88	1.83	1.91	1.91	1.94	1.97
95	T.C.	19.0	20.0	20.0	22.7	24.5	21.6	22.1	22.1	23.8	25.7	23.2	24.1	24.1	24.7	26.8
	S.C.	18.7	17.6	13.3	15.5	12.3	21.2	20.6	15.2	16.6	14.2	23.2	23.6	17.1	21.0	16.0
	KW	1.81	1.82	1.82	1.88	1.92	1.93	1.93	1.93	1.98	2.01	2.05	2.04	2.04	2.06	2.11
105	T.C.	17.6	18.1	18.1	21.2	22.6	20.8	20.5	20.5	22.1	23.6	23.9	22.9	22.9	23.1	24.6
	S.C.	17.6	16.7	12.3	15.0	11.7	20.3	19.4	14.0	17.8	13.5	23.9	22.2	15.7	20.7	15.3
	KW	1.92	1.92	1.92	2.00	2.04	2.09	2.04	2.04	2.09	2.14	2.27	2.16	2.16	2.19	2.25
115	T.C.	19.3	17.0	17.0	19.3	21.1	20.3	18.8	18.8	20.2	22.0	21.2	20.7	20.7	21.1	22.9
	S.C.	19.3	16.0	11.7	14.2	11.2	20.3	18.2	12.8	16.8	13.1	21.2	20.5	14.0	19.4	14.9
	KW	2.10	2.01	2.01	2.10	2.16	2.21	2.14	2.14	2.20	2.26	2.32	2.28	2.28	2.30	2.37
125	T.C.	15.4	15.8	15.8	17.4	19.6	17.0	17.2	17.2	18.3	20.4	18.5	18.5	18.5	19.2	21.2
	S.C.	15.4	15.4	11.1	13.5	10.7	17.0	17.1	11.7	15.8	12.7	18.5	18.5	12.2	18.0	14.6
	KW	2.09	2.09	2.09	2.19	2.28	2.24	2.24	2.24	2.30	2.39	2.37	2.39	2.39	2.41	2.49

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
MA08B	MC24B	1.00	1.00	1.00
MA08B	MC30B	1.00	1.00	1.00
AHP24	—	1.02	1.01	1.00
AHP30	—	1.02	1.02	1.03
F*FP030	—	1.02	1.01	1.00
—	FC/MC/PC/UC30	1.00	1.00	1.00
—	HC30	1.02	1.02	1.02
—	HD24	1.03	1.04	1.02

COOLING PERFORMANCE DATA																
AIR CONDITIONER MODEL NO.		AC030X1322, AC030X13(31,41)**														
INDOOR COIL MODEL NO.		FC/MC/PC/UC30														
CONDENSING ENTERING AIR TEMPERATURE	IDCFM	800					1000					1200				
	ID DB (°F)	80	80	75	80	80	80	80	75	80	80	80	80	75	80	80
	ID WB (°F)	57	62	62	67	72	57	62	62	67	72	57	62	62	67	72
65	T.C.	27.0	31.8	30.1	33.7	35.6	29.0	33.4	31.3	35.1	36.7	31.1	35.0	32.6	36.5	37.7
	S.C.	26.9	24.7	20.6	21.2	16.0	29.0	27.7	22.9	23.4	17.7	31.1	30.7	25.2	25.6	19.5
	KW	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
75	T.C.	25.9	30.3	28.7	32.1	33.6	27.9	31.9	29.9	33.4	34.5	29.8	33.5	31.1	34.7	35.4
	S.C.	25.9	24.2	20.0	20.5	15.6	27.8	27.0	22.3	22.7	17.2	29.8	29.8	24.5	24.9	18.8
	KW	1.9	1.9	1.9	2.0	2.0	1.9	1.9	1.9	2.0	2.0	2.0	1.9	2.0	2.0	2.0
85	T.C.	24.9	28.8	27.2	30.4	31.7	26.7	30.4	28.4	31.7	32.4	28.6	32.0	29.6	32.9	33.1
	S.C.	24.9	23.7	19.5	19.7	15.2	26.7	26.3	21.7	21.9	16.7	28.5	28.9	23.9	24.1	18.1
	KW	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.2
95	T.C.	23.8	27.4	25.8	28.7	29.7	25.6	28.9	26.9	30.0	30.2	27.3	30.5	28.1	31.2	30.7
	S.C.	23.8	23.2	18.9	18.9	14.8	25.5	25.6	21.1	21.2	16.2	27.3	28.1	23.3	23.4	17.5
	KW	2.2	2.2	2.2	2.3	2.3	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.2	2.3	2.3
105	T.C.	22.8	25.9	24.3	27.1	27.8	24.4	27.5	25.3	28.2	28.2	26.0	29.1	26.4	29.3	28.5
	S.C.	22.7	22.4	18.3	18.3	14.1	24.3	24.5	20.4	20.5	15.4	25.9	26.5	22.6	22.6	16.6
	KW	2.4	2.4	2.4	2.4	2.5	2.4	2.4	2.4	2.4	2.5	2.4	2.4	2.4	2.5	2.5
115	T.C.	21.8	24.5	22.8	25.5	25.9	23.2	26.1	23.7	26.5	26.1	24.7	27.8	24.7	27.4	26.4
	S.C.	21.7	21.6	17.6	17.7	13.5	23.2	23.3	19.7	19.8	14.6	24.7	25.0	21.8	21.9	15.8
	KW	2.5	2.5	2.5	2.6	2.6	2.6	2.5	2.5	2.6	2.7	2.6	2.6	2.5	2.6	2.7
125	T.C.	20.8	23.0	21.3	23.9	24.0	22.1	24.8	22.2	24.7	24.1	23.4	26.5	23.0	25.6	24.3
	S.C.	20.6	20.9	17.0	17.1	12.8	22.0	22.2	19.0	19.1	13.9	23.4	23.5	21.1	21.1	15.1
	KW	2.7	2.7	2.6	2.7	2.8	2.7	2.7	2.7	2.7	2.8	2.8	2.7	2.7	2.8	2.8
NOTE: ALL CAPACITIES INCLUDE INDOOR FAN HEAT AT 1250 BTUH/1000 CFM.																
** For three-phase, decrease T.C. by 0.6 and S.C. by 0.3.																

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
MA12B	MC30B	1.00	1.00	1.00
MA12B	MC36B	1.00	1.01	1.00
AHP30	—	1.01	1.04	1.01
AHP36	—	1.01	1.08	1.01
F*FP036	—	1.00	1.01	1.00
—	FC/MC/PC/UC36	1.00	1.01	1.00
—	HC30	1.00	1.03	1.00
—	HC36	1.01	1.04	1.01
—	HD36	1.01	1.05	1.01

* = Single-phase outdoor units only.

COOLING PERFORMANCE DATA																
AIR CONDITIONER MODEL NO.			AC036X1322, AC036X13(31,41)**													
INDOOR COIL MODEL NO.			FC/MC/PC/UC36													
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	35.7	34.7	38.9	40.5	37.2	37.2	35.8	40.0	41.4	39.3	38.8	36.9	41.1	42.3
	S.C.	32.1	30.0	25.0	25.8	19.7	33.8	32.8	27.5	28.1	21.3	35.6	35.7	29.9	30.4	22.9
	KW	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.1
75	T.C.	33.3	34.2	33.1	37.0	38.7	35.6	35.9	34.3	38.1	39.5	38.0	37.6	35.4	39.1	40.4
	S.C.	30.5	29.0	24.3	24.9	19.2	32.3	31.7	26.7	27.2	20.7	34.2	34.4	29.1	29.5	22.3
	KW	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.3
85	T.C.	31.6	32.6	31.6	35.1	36.8	34.1	34.5	32.8	36.1	37.7	36.6	36.3	34.0	37.1	38.5
	S.C.	28.8	28.0	23.5	24.0	18.6	30.8	30.6	25.9	26.4	20.2	32.9	33.2	28.4	28.7	21.8
	KW	2.3	2.4	2.4	2.4	2.5	2.4	2.4	2.4	2.4	2.5	2.4	2.4	2.4	2.4	2.5
95	T.C.	29.9	31.1	30.0	33.2	35.0	32.5	33.1	31.3	34.8	35.8	35.2	35.1	32.5	35.1	36.6
	S.C.	27.2	27.0	22.7	23.1	18.0	29.3	29.5	25.2	25.4	19.6	31.5	31.9	27.6	27.9	21.2
	KW	2.5	2.5	2.5	2.6	2.7	2.5	2.6	2.6	2.6	2.7	2.6	2.6	2.6	2.6	2.7
105	T.C.	28.8	29.5	28.1	31.1	32.6	31.0	31.3	29.2	32.0	33.3	33.3	33.2	30.3	33.0	34.0
	S.C.	26.1	25.9	21.7	22.2	17.3	27.9	28.0	24.0	24.5	18.8	29.7	30.1	26.3	26.9	20.4
	KW	2.7	2.7	2.7	2.8	2.9	2.7	2.8	2.7	2.8	2.9	2.8	2.8	2.8	2.8	2.9
115	T.C.	27.7	27.9	26.3	29.1	30.4	29.6	29.6	27.2	30.0	30.9	31.5	31.3	28.2	30.9	31.4
	S.C.	25.0	24.9	20.7	21.3	16.6	26.5	26.6	22.9	23.6	18.1	28.0	28.4	25.0	25.9	19.6
	KW	2.9	2.9	2.9	3.0	3.1	2.9	2.9	2.9	3.0	3.1	3.0	3.0	2.9	3.0	3.1
125	T.C.	26.6	26.3	24.4	27.0	28.1	28.2	27.9	25.3	27.9	28.4	29.7	29.5	26.1	28.8	28.8
	S.C.	24.0	23.8	19.8	20.4	15.9	25.1	25.3	21.7	22.7	17.3	26.2	26.7	23.7	25.0	18.8
	KW	3.1	3.1	3.0	3.1	3.3	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.																
** For three-phase, decrease T.C. by 0.3 and S.C. by 0.2.																

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
MA12B	FC/MC36B	1.00	1.00	1.00
AHP36	—	1.01	1.07	1.01
AHP42	—	1.01	1.08	1.01
AHP60	—	1.03	1.05	0.99
F*FP040	—	1.00	1.00	1.00
—	HC36	1.01	1.01	1.01
—	HD36	1.03	1.05	1.03

* = Single-phase outdoor units only.

COOLING PERFORMANCE DATA																
AIR CONDITIONER MODEL NO.		AC042X1322, AC042X13(31,41)**														
INDOOR COIL MODEL NO.		FC/MC/PC/UC42														
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	6	67	72	57	62	62	67	72	57	62	62	67	72
65	T.C.	39.6	44.0	42.6	46.7	50.0	41.5	45.0	43.4	47.6	50.4	43.4	46.0	44.3	48.5	50.8
	S.C.	39.3	37.3	30.7	31.1	23.6	41.0	39.7	33.1	33.3	24.7	42.7	42.2	35.5	35.5	25.7
	KW	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
75	T.C.	38.0	41.8	40.3	44.4	47.2	40.0	42.9	41.1	45.2	47.7	41.9	43.9	41.9	46.0	48.1
	S.C.	37.6	36.1	29.8	30.0	22.7	39.3	38.5	32.0	32.2	23.8	40.9	40.8	34.2	34.4	24.8
	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
85	T.C.	36.4	39.6	38.0	42.1	44.4	38.4	40.7	38.7	42.8	44.9	40.4	41.9	39.4	43.4	45.4
	S.C.	36.0	34.9	28.8	28.9	21.8	37.6	37.2	30.9	31.1	22.9	39.2	39.5	33.0	33.4	24.0
	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	2.8	2.8
95	T.C.	34.7	37.4	35.7	39.8	41.6	36.9	38.6	36.3	40.5	42.2	39.0	39.8	36.9	40.9	42.8
	S.C.	34.3	33.8	27.8	27.8	20.8	35.9	36.0	29.8	29.6	22.0	37.4	38.2	31.7	32.3	23.1
	KW	2.9	2.9	2.9	3.0	3.1	2.9	2.9	2.9	3.0	3.1	2.9	2.9	2.9	3.0	3.1
105	T.C.	33.3	35.6	33.5	37.4	39.0	35.2	36.7	34.1	37.9	39.4	37.2	37.7	34.7	38.4	39.8
	S.C.	32.1	32.6	26.9	26.9	19.8	33.8	34.5	28.8	29.0	21.0	35.6	36.3	30.8	31.2	22.2
	KW	3.1	3.1	3.1	3.2	3.3	3.1	3.1	3.1	3.2	3.3	3.2	3.2	3.1	3.2	3.3
115	T.C.	31.9	33.8	31.4	35.1	36.4	33.6	34.7	31.9	35.6	36.6	35.4	35.7	32.5	36.0	36.8
	S.C.	31.4	31.5	26.0	26.0	18.9	32.6	33.0	27.9	28.0	20.1	33.8	34.5	29.8	30.1	21.3
	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	3.4	3.6
125	T.C.	30.5	32.0	29.2	32.8	33.9	32.1	32.8	29.8	33.2	33.9	33.6	33.7	30.3	33.6	33.9
	S.C.	30.0	30.4	25.2	25.1	17.9	31.0	31.5	27.0	27.0	19.1	32.1	32.6	28.8	28.9	20.4
	KW	3.5	3.5	3.5	3.6	3.8	3.6	3.6	3.5	3.6	3.8	3.6	3.6	3.6	3.7	3.8
NOTE: ALL CAPACITIES INCLUDE INDOOR FAN HEAT AT 1250 BTUH/1000 CFM.																
** For three-phase, decrease T.C. by 1.0 and S.C. by 0.7.																

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
MA12C	MC42C	1.00	1.00	1.00
MA14D	MC42D	1.00	1.00	1.00
MA12C	MC48C	1.01	1.02	1.01
MA14D	MC48D	1.01	1.02	1.01
AHP42	—	1.01	1.05	1.01
AHP48	—	1.04	1.04	1.04
AHP60	—	1.00	1.12	0.96
—	FC/MC/PC/UC48	1.01	1.02	1.01
—	HC42	1.01	1.01	1.01
—	HD48	1.02	1.00	1.02

* = Single-phase outdoor units only.

COOLING PERFORMANCE DATA																
AIR CONDITIONER MODEL NO.			AC048X1322, AC048X13(31,41) **													
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.	45.9	49.0	47.2	51.9	54.5	48.7	50.8	48.2	52.9	54.7	51.5	52.5	49.2	53.9	54.9
	S.C.	44.2	41.8	34.6	34.7	27.5	45.8	44.4	36.9	36.9	28.2	47.5	47.0	39.2	39.0	29.0
	KW	2.6	2.6	2.6	2.7	2.7	2.6	2.6	2.6	2.7	2.7	2.6	2.6	2.6	2.7	2.7
75	T.C.	44.6	47.5	45.7	50.3	52.8	47.4	48.9	46.5	51.0	53.0	50.1	50.4	47.4	51.7	53.2
	S.C.	42.9	41.2	34.0	34.2	26.9	44.5	43.7	36.2	36.3	28.0	46.1	46.1	38.5	38.4	29.0
	KW	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
85	T.C.	43.3	45.9	44.1	48.7	51.1	46.0	47.1	44.9	49.1	51.3	48.8	48.2	45.6	49.6	51.6
	S.C.	41.6	40.6	33.4	33.7	26.4	43.1	42.9	35.6	35.7	27.7	44.6	45.2	37.7	37.8	28.9
	KW	3.3	3.3	3.3	3.4	3.4	3.3	3.3	3.3	3.4	3.4	3.3	3.3	3.3	3.4	3.4
95	T.C.	42.0	44.4	42.6	47.1	49.3	44.7	45.2	43.2	47.0	49.7	47.4	46.1	43.8	47.5	50.0
	S.C.	40.4	39.9	32.8	33.1	25.9	41.8	42.1	34.9	35.1	27.4	43.1	44.3	37.0	37.2	28.9
	KW	3.7	3.7	3.6	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
105	T.C.	40.5	42.5	40.5	44.7	46.4	43.1	43.5	41.1	44.8	46.7	45.6	44.4	41.7	45.0	47.0
	S.C.	38.7	38.5	31.8	32.2	24.9	40.0	40.4	33.9	34.2	26.4	41.4	42.3	36.0	36.3	27.8
	KW	4.2	4.2	4.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
115	T.C.	39.1	40.7	38.4	42.3	43.5	41.5	41.7	39.0	42.5	43.8	43.9	42.8	39.7	42.6	44.1
	S.C.	37.2	37.2	30.8	31.2	24.0	38.4	38.7	32.9	33.3	25.4	39.6	40.3	35.0	35.4	26.8
	KW	4.7	4.6	4.6	4.7	4.7	4.7	4.7	4.6	4.7	4.7	4.7	4.7	4.6	4.7	4.7
125	T.C.	37.7	38.8	36.3	40.0	40.7	39.9	40.0	37.0	40.1	40.9	42.1	41.2	37.6	40.3	41.2
	S.C.	35.6	35.8	29.9	30.3	23.1	36.7	37.0	32.0	32.4	24.4	37.9	38.3	34.0	34.5	25.8
	KW	5.2	5.1	5.1	5.2	5.2	5.2	5.1	5.1	5.2	5.2	5.2	5.2	5.1	5.2	5.2
NOTE: ALL CAPACITIES INCLUDE INDOOR FAN HEAT AT 1250 BTUH/1000 CFM.																
** For three-phase, decrease T.C. by 1.0 and S.C. by 0.7.																

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
MA12C	MC48C	1.01	1.02	1.01
MA20D	MC48D	1.00	1.00	1.00
AHP48	—	1.00	1.05	1.00
AHP60	—	1.01	1.03	1.01
—	HD48	1.00	0.99	1.00

* = Single-phase outdoor units only.

COOLING PERFORMANCE DATA

AIR CONDITIONER MODEL NO.		AC060X1322, AC060X13(31,41)**														
INDOOR COIL MODEL NO.		FC/MC/PC/UC60														
CONDENSING ENTERING AIR TEMPERATURE	IDCFM	1650					1900					2150				
	ID DB (°F)	80	80	75	80	80	80	80	75	80	80	80	80	75	80	80
	ID WB (°F)	57	62	62	67	72	57	62	62	67	72	57	62	62	67	72
65	T.C.	57.2	57.4	54.0	59.6	59.1	58.9	59.1	55.2	60.4	61.1	60.6	60.8	56.3	61.2	63.1
	S.C.	52.1	48.7	39.6	38.8	28.1	54.1	51.9	42.7	42.0	31.1	56.1	55.2	45.7	45.3	34.1
	KW	3.0	3.1	3.1	3.1	3.1	3.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
75	T.C.	54.9	55.1	51.6	57.2	57.0	56.9	56.8	52.7	58.1	58.2	59.0	58.5	53.8	59.0	59.5
	S.C.	50.0	47.4	38.6	38.0	27.7	52.1	50.5	41.6	41.1	30.0	54.2	53.6	44.7	44.2	32.3
	KW	3.5	3.5	3.5	3.6	3.6	3.5	3.5	3.5	3.6	3.6	3.5	3.5	3.5	3.6	3.6
85	T.C.	52.6	52.9	49.3	54.8	54.8	54.9	54.5	50.3	55.8	55.4	57.3	56.1	51.2	56.9	55.9
	S.C.	48.0	46.1	37.6	37.3	27.3	50.1	49.0	40.6	40.2	28.8	52.3	52.0	43.6	43.2	30.4
	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
95	T.C.	50.2	50.7	46.9	52.4	52.7	52.9	52.2	47.8	55.0	52.5	55.6	53.7	48.7	54.7	52.3
	S.C.	45.9	44.8	36.5	36.5	26.9	48.1	47.6	39.5	39.6	27.7	50.4	50.4	42.5	42.1	28.5
	KW	4.4	4.4	4.4	4.4	4.6	4.5	4.4	4.4	4.5	4.6	4.5	4.4	4.4	4.5	4.6
105	T.C.	48.3	48.2	44.9	49.9	49.4	50.5	49.9	45.3	50.8	49.2	52.8	51.6	45.6	51.6	49.0
	S.C.	43.9	43.2	35.6	35.4	25.7	46.0	45.6	38.4	38.1	26.8	48.0	47.9	41.1	40.8	28.0
	KW	5.1	5.0	5.1	5.1	5.2	5.1	5.1	5.1	5.1	5.2	5.1	5.1	5.1	5.1	5.2
115	T.C.	46.4	45.9	43.0	47.5	46.1	48.2	47.7	42.8	48.1	46.0	50.0	49.6	42.5	48.6	45.9
	S.C.	42.0	41.7	34.7	34.4	24.6	43.9	43.6	37.2	37.0	26.0	45.7	45.5	39.8	39.5	27.5
	KW	5.7	5.7	5.7	5.7	5.8	5.7	5.7	5.7	5.7	5.8	5.7	5.7	5.7	5.7	5.8
125	T.C.	44.5	43.5	41.1	45.1	42.9	45.8	45.5	40.3	45.3	42.8	47.2	47.6	39.5	45.6	42.7
	S.C.	40.1	40.2	33.7	33.4	23.5	41.8	41.6	36.1	35.8	25.2	43.4	43.1	38.4	38.3	26.9
	KW	6.3	6.3	6.3	6.3	6.4	6.3	6.3	6.3	6.3	6.5	6.3	6.4	6.3	6.3	6.5

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

** For three-phase, decrease T.C. by 0.5 and S.C. by 0.3.

Multipliers for determining the performance with other indoor sections.

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

Air Handler	Coil	T.C.	S.C.	KW
MA20D	MC60D	1.00	1.00	1.00
MA20D	MC61D	1.01	1.01	1.01
AHP60	—	1.00	1.02	1.00
—	MC61	1.01	1.01	1.01
—	HC60	1.00	1.00	1.00
—	HD60	1.00	1.01	1.00

* = Single-phase outdoor units only.