

TECHNICAL GUIDE

SPLIT-SYSTEM

AIR CONDITIONERS

10 SEER

AC012M102 THRU AC030M1021
(1 THRU 2.5 NOMINAL TONS, 1 PH)

AC036X102 THRU 60
(3 THRU 5 NOMINAL TONS, 1 PH)
AC036X10(3,4) THRU 60
(3 THRU 5 NOMINAL TONS, 3 PH)



AC012M1021 THRU 030



AC036X1021 THRU 060
AC036X10(31,41) THRU 060

DESCRIPTION

The 10 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. 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

1-year limited parts warranty.

5-year limited compressor warranty.

FEATURES

- **QUALITY CONDENSER COILS** - The coil is constructed of copper tube and aluminum fins. The fins are epoxy coated to improve and maintain appearance of coil as well as providing excellent corrosion protection.
- **PROTECTED COMPRESSOR** - The compressor is internally protected against high pressure and temperature. This is accomplished by the simultaneous operation of high pressure relief valve and a temperature sensor which protects the compressor if undesirable operating conditions occur. A liquid line filter-drier further protects the compressor.
- **DURABLE FINISH** - The cabinet is made of pre-painted steel. The pre-treated flat galvanized steel provides a better paint to steel bond, which resists corrosion and rust creep. Special primer formulas and matted desert sand 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 up 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 molex 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		AC012M 1021	AC018M 1021	AC024M 1021	AC030M 1021	AC036X 1021	AC042X 1021	AC048X 1021	AC060X 1022
Unit Supply Voltage		208/230 – 1 – 60							
Normal Voltage Range ¹		187 to 252							
Minimum Circuit Ampacity		8.8	10.1	15.3	19.3	21.5	26.1	30.1	37.3
Max. Overcurrent Device Amps ²		15	15	25	30	35	40	45	60
Compressor Type ³		Rotary	Recip	Recip	Recip	Recip	Recip	Recip	Scroll ^B
Compressor Amps	Rated Load	6.7	7.7	11.5	14.7	16.1	19.8	23	28.8
	Locked Rotor	33	48	60	73	82	97	110	165
Crankcase Heater		No	No	No	No	No	No	No	No
Fan Motor Amps	Rated Load	0.5	0.5	0.9	0.9	1.4	1.4	1.3	1.3
Fan Diameter Inches		17-1/2	17-1/2	17-1/2	17-1/2	18	18	22	22
Fan Motor	Rated HP	1/12	1/12	1/8	1/8	1/4	1/4	1/4	1/4
	Nominal RPM	1,100	1,100	1,075	1,075	1,100	1,100	850	850
	Nominal CFM	1,600	1,550	1,750	1,750	2,750	2,750	3,250	3,300
Coil	Face Area Sq. Ft.	7.22	7.22	7.22	7.94	9.15	12.58	15.72	15.72
	Rows Deep	1	1	1	1	1	1	1	1
	Fin / Inches	14	16	20	20	18	18	18	22
Liquid Line OD		3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Vapor Line OD		5/8	5/8	5/8	3/4	3/4	3/4	7/8	7/8
Unit Charge (Lbs. - Oz.) ⁴		3 - 2	3 - 1	3 - 4	3 - 9	3 - 15	5 - 4	7 - 5	6 - 10
Charge Per Foot, Oz.		0.66	0.66	0.66	0.68	0.68	0.68	0.70	0.70
Operating Weight Lbs.		94	114	119	122	137	161	176	188

1. Rated in accordance with ARI Standard 110, utilization range "A".
2. Dual element fuses or HACR circuit breaker.
3. All scrolls listed with a superscript "B" are Bristol scrolls. All scrolls listed with a superscript "C" are Copeland scrolls.
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.

Physical and Electrical Data - 3 Phase

MODEL		AC036X1031	AC048X1031	AC060X1031		AC036X1041	AC048X1041	AC060X1041
Unit Supply Voltage		208 / 230 - 3 - 60				460 - 3 - 60		
Normal Voltage Range ¹		187 - 252				432 - 504		
Minimum Circuit Ampacity		15.0	17.3	21.3		8.0	8.3	10.8
Max. Overcurrent Device Amps ²		25	30	35		15	15	15
Compressor Type		Recip	Recip	Scroll ^B		Recip	Recip	Scroll ^B
Compressor Amps	Rated Load	10.9	11.7	16.0		5.8	6.1	8.0
	Locked Rotor	78	78	125		40	39	67
Crankcase Heater		No	No	No		No	No	No
Fan Motor Amps	Rated Load	1.4	1.3	1.3		.8	.7	.8
Fan Diameter Inches		18	22	22		18	22	22
Fan Motor	Rated HP	1/4	1/4	1/4		1/4	1/5	1/4
	Nominal RPM	1,100	850	850		1,100	850	850
	Nominal CFM	2,750	3,250	3,450		2,750	3,250	3,450
Coil	Face Area Sq. Ft.	9.15	15.72	23.58		9.15	15.72	23.58
	Rows Deep	1	1	1		1	1	1
	Fin / Inch	18	18	18		18	18	18
Liquid Line OD		3/8	3/8	3/8		3/8	3/8	3/8
Vapor Line OD		3/4	7/8	7/8		3/4	7/8	7/8
Unit Charge (Lbs. - Oz.) ³		3 - 15	7 - 5	9 - 7		3 - 15	7 - 5	9 - 7
Charge Per Foot, Oz.		.68	.70	.70		.68	.70	.70
Operating Weight Lbs.		170	206	228		170	206	228

1. Rated in accordance with ARI Standard 110, utilization range "A".
2. Dual element fuses or HACR circuit breaker.
3. 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 valve.

COOLING CAPACITY - With Air Handler Coils

UNIT MODEL	AIR HANDLER			COIL ¹ MODEL	COOLING						
	MODEL	ELECTRIC ² HEAT KW	W		RATED CFM	NET MBH		KW	SEER	SEER/TXV ³	EER
						TOTAL	SENS.				
1 PH 10 SEER AC WITH N1AH / G2FD											
AC012M1021	N1AHB0806	2,5,8,10	17	G2FD024S17	450	14.5	10.4	1.45	10.0	--	10.00
AC018M1021	N1AHB0806	2,5,8,10	17	G2FD024S17	650	18.6	13.4	1.88	10.0	--	9.50
AC024M1021	N1AHB0806	2,5,8,10	17	G2FD024S17	850	23.4	16.8	2.56	10.0	--	9.15
AC030M1021	N1AHB1206	5,8,10,15,18	17	G2FD030S17	1050	28.2	20.3	3.13	10.0	--	9.00
AC036X1021	N1AHB1206	5,8,10,15,18	17	G2FD036S17	1200	33.8	25.0	3.67	10.0	--	9.20
AC042X1021	N1AHC1606	5,8,10,15,20	21	G2FD042S21	1400	39.5	29.2	4.39	10.0	--	9.00
AC048X1021	N1AHC1606	5,8,10,15,20	21	G2FD048S21	1600	46.0	34.0	4.84	10.1	--	9.50
AC060X1022	N1AHD2006	8,10,15,20,25,30	24	G2FD060S24	1850	56.0	40.2	5.99	10.5	--	9.35
3 PH 10 SEER AC WITH N1AH / G2FD											
AC036X1031,41	N1AHB1206,46	5,8,10,15,18	17	G2FD036S17	1250	33.8	25.0	3.70	10.0	--	9.20
AC048X1031,41	N1AHC1606,46	5,8,10,15,20	21	G2FD048S21	1600	46.0	34.0	4.80	10.1	--	9.50
	N1AHD2006,46	8,10,15,20,25,29,30	24	G2FD048S24	1650	46.0	34.0	4.80	10.1	--	9.50
	N1AHD2006,46	8,10,15,20,25,29,30	24	G2FD060S24	1600	47.0	34.8	4.80	10.4	--	9.70
AC060X1031,41	N1AHD2006,46	8,10,15,20,25,29,30	24	G2FD060S24	1750	58.5	39.8	5.71	10.0	--	10.25
1 PH 10 SEER AC WITH F2RP / RC / FP / MHC ^{4,5}											
AC012M1021	F2RP018	5,7.5,10	18	--	500	14.5	10.6	1.45	10.0	--	9.70
	M1HC012	--	--	--	450	13.7	9.6	1.33	10.0	--	10.00
AC018M1021	F2RP018	5,7.5,10	18	--	650	17.4	12.6	1.87	10.0	--	9.35
	F2RP024	5,7.5,10	18	--	650	18.6	13.4	1.88	10.0	--	9.50
AC024M1021	F2RP024	5,7.5,10	18	--	850	23.4	16.8	2.56	10.0	--	9.15
AC030M1021	F2RP030	5,7.5,10,15	21	--	1050	28.4	20.3	3.14	10.0	--	9.05
	F2RP036	5,7.5,10,15	21	--	1050	29.0	16.8	3.17	10.0	--	9.15
AC036X1021	F2RC036	5,7.5,10,15	21	--	1200	33.6	21.5	3.69	10.0	--	9.10
	F2RP036	5,7.5,10,15	21	--	1200	34.4	25.2	3.69	10.2	--	9.30
AC042X1021	F2RP042	5,7.5,10,15	21	--	1400	39.5	28.9	4.38	--	10.0	9.00
	F2FP048	5,7.5,10,15	24	--	1400	40.5	30.0	4.40	10.0	--	9.20
AC048X1021	F2RP048	5,7.5,10,15,20,25	24	--	1600	45.5	33.7	4.97	10.0	--	9.15
AC060X1022	F2RP060	5,7.5,10,15,20,25	24	--	1800	56.0	41.0	6.12	10.0	--	9.15
3 PH 10 SEER AC WITH F2RP / FP											
AC036X1031,41	F2RP036	5,7.5,10,15	21	--	1200	34.4	25.2	3.69	10.0	--	9.30
AC048X1031,41	F2FP048	5,7.5,10,15	24	--	1600	45.5	33.7	4.97	10.0	--	9.15
AC060X1031,41	F2FP060	5,7.5,10,15	24	--	1800	58.5	39.8	5.97	10.0	--	9.80

Rated in accordance with DOE test procedures (Federal Register 12-27-79 and 3-18-88) and ARI Standards 210/240.

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

KW includes compressor, outdoor fan and indoor blower motor watts. Add-on coils include 365 watts/1000 CFM for blower motor.

EER (Energy Efficiency Ratio) is the total cooling output in BTU's at a 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. G+FD 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.
3. TXV = Thermal Expansion Valve kit required. Use 1TV700 series kit.
4. To meet R=4.2 insulation requirements, substitute F+FP for F+RP, and F+FC for F+RC. models. All ratings remain the same.
5. FG8, FG9, and FL8 furnaces and F+RP / F+RC air handlers have B.O.D. standard.

*Field transition may be required.

— = 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		KW	SEER	SEER/TXV	EER
					TOTAL	SENS.				
AC012M1021	250-650	14,17	G2FD024S14,17	450	14.5	10.4	1.45	10.0	--	10.00
		*	G1HD024	450	14.6	10.4	1.45	10.0	--	10.00
		17	G1NA024S17G	450	14.1	10.0	1.44	10.0	--	9.80
		14,17	G1FA/G1UA024S14,17	450	14.4	10.3	1.45	10.0	--	9.95
AC018M1021	450 - 800	14,17	G2FD024S14,17	650	18.6	13.4	1.88	10.0	--	9.50
		*	G1HD024	650	18.5	13.5	1.86	10.0	--	9.50
		17	G1NA024S17G	650	17.7	12.4	1.86	10.0	--	9.50
		14,17	G1FA/G1UA024S14,17	650	18.3	13.3	1.88	10.0	--	9.40
AC024M1021	600 - 1000	14,17	G2FD024S14,17	850	23.4	16.8	2.56	10.0	--	9.15
		*	G1HD024	850	23.6	17.0	2.55	10.0	--	9.25
		17	G1NA030S17H	850	23.6	16.5	2.57	10.0	--	9.20
		21	G1NA030S21B	850	23.6	16.5	2.57	10.0	--	9.20
		*	G1NF024SOF	850	23.8	16.7	2.57	10.0	--	9.25
		14,17	G1FA/G1UA024S14,17	850	23.0	16.6	2.54	10.0	--	9.05
		14	G1FA/G1UA036S14	850	23.8	17.2	2.57	10.0	--	9.25
AC030M1021	800 - 1200	17	G2FD030S17	1050	28.2	20.3	3.13	10.0	--	9.00
		14	G2FD035S14	1050	28.0	20.0	3.13	10.0	--	8.95
		*	G1HD036	1050	28.4	20.2	3.16	10.0	--	9.00
		21	G1NA030S21M	1050	28.4	19.9	3.16	10.0	--	9.00
		17	G1NA030S17K	1050	28.4	19.9	3.16	10.0	--	9.00
		*	G1NF024SOF	1050	28.2	19.8	3.13	10.0*	--	9.00
		14	G1FA/G1UA030S14	1050	28.2	20.2	3.15	10.0	--	8.95
		14	G1FA/G1UA036S14	1050	28.2	20.2	3.15	10.0	--	8.95
		17,21	G1FA/G1UA036S17,21	1050	28.0	20.0	3.13	10.0	--	8.95
AC036X1021 AC036X1031,41	1200 - 1600	14	G2FD035S14	1250	33.4	24.7	3.67	10.0	--	9.10
		17,21	G2FD036S17,21	1250	33.8	25.0	3.67	10.0	--	9.20
		21	G2FD042S21	1250	34.4	25.5	3.70	10.15	--	9.30
		17	G2FD046S17	1250	34.4	25.5	3.70	10.15	--	9.30
		*	G1HD036	1250	34.4	25.5	3.87	10.0	--	8.90
		*	G1HD048	1250	34.2	25.3	3.89	10.0	--	8.95
		17	G1NA036S17J	1250	34.4	25.5	3.74	10.0	--	9.20
		21	G1NA036S21C	1250	34.4	25.5	3.70	10.0	--	9.30
		*	G1NF036SOF	1200	34.4	25.9	3.80	10.05	--	9.20
		14	G1FA/G1UA036S14	1250	33.6	24.9	3.69	10.0	--	9.10
		17,21	G1FA/G1UA036S17,21	1250	33.6	24.9	3.69	10.0	--	9.10
		17	G1FA/G1UA048S17	1250	35.0	25.9	3.72	10.3	--	9.40
21,24	G1FA/G1UA048S21,24	1250	36.0	26.6	3.83	10.4	--	9.40		
AC042X1021	1400 - 2000	21	G2FD042S21	1400	39.5	29.2	4.39	10.0	--	9.00
		17	G2FD046S17	1400	40.0	29.6	4.42	10.0	--	9.05
		21,24	G2FD048S21,24	1400	41.0	30.3	4.48	10.1	--	9.15
		24	G2FD060S24	1400	42.0	31.1	4.42	10.1	--	9.50
		*	G1HD048	1390	40.5	30.0	4.48	10.0	--	9.05
		21	G1NA048S21D	1400	40.5	28.6	4.43	10.0	--	9.15
		24	G1NA048S24P	1400	40.5	28.6	4.43	10.0	--	9.15
		**	G1NF048SOF	1400	40.5	30.0	4.43	10.0	--	9.15
		17	G1FA/G1UA048S17	1400	40.8	30.2	4.43	10.0	--	9.20
		21,24	G1FA/G1UA048S21,24	1400	41.0	30.3	4.43	10.0	--	9.25
		21,24	G1FA/G1UA060S21,24	1400	42.0	31.1	4.44	10.0	--	9.45

COOLING CAPACITY - Upflow, Downflow, & Horizontal Furnaces and Coils (Continued)

UNIT MODEL	FURNACE**		COIL MODEL	COOLING						
	CFM RANGE (MIN.-MAX.)	W		RATED CFM	NET MBH		KW	SEER	SEER/TXV	EER
					TOTAL	SENS.				
AC048X1021 AC048X1031,41	1400 - 2000	17	G2FD046S17	1500	44.5	32.9	4.86	10.0	--	9.15
		21,24	G2FD048S21,24	1600	46.0	34.0	4.84	10.1	--	9.50
		24	G2FD060S24	1600	46.0	34.0	4.84	10.1	--	9.50
		*	G1HD048	1600	45.5	33.7	4.79	10.0	--	9.50
		*	G1HD060	1600	46.5	34.4	4.82	10.2	--	9.65
		21	G1NA048S21D	1400	46.5	34.4	4.89	10.0	--	9.50
		*	G1NF048SOF	1400	46.5	34.4	4.87	10.0	--	9.55
		24	G1NA048S24P	1400	46.5	30.7	4.89	10.0	--	9.50
		17	G1FA/G1UA048S17	1500	44.5	33.5	4.71	10.0	--	9.15
		21,24	G1FA/G1UA048S21,24	1600	45.5	33.7	4.81	10.0	--	9.45
		21,24	G1FA/G1UA060S21,24	1600	47.0	34.8	4.85	10.4	--	9.70
AC060X1022	1600 - 2000	24	G2FD060S24	1800	56.0	40.2	5.99	10.5	--	9.35
		24	G2FD061S24	2000	57.0	40.9	6.10	10.5	--	9.35
		*	G1HD060	2000	55.5	40.0	6.07	10.3	--	9.15
		24	G1NA060S24T	1800	55.0	39.8	5.94	10.5	--	9.25
		*	G1NF060SOF	1800	56.0	39.8	5.99	10.5	--	9.35
		21,24	G1FA/G1UA060S21,24	1800	56.0	40.2	5.99	10.5	--	9.35
AC060X1031,41	1600 - 2000	24	G2FD060S24	1750	58.5	39.8	5.71	10.0	--	10.25
		24	G1NA060S24T	1750	57.5	39.1	5.75	10.0	--	10.00
		*	G1NF050SOF	1750	57.5	39.1	5.75	10.0	--	10.00
		24	G1FA/G1UA060S24	1750	58.5	39.8	5.71	10.0	--	10.25

See Notes on Page 2

* Requires 2FD fan time delay.

COOLING PERFORMANCE

MODEL	SUCT. T/P @ COMPR.		AIR TEMP ON CONDENSER						MODEL	SUCT. T/P @ COMPR.		AIR TEMP ON CONDENSER					
			75°F		95°F		115°F					75°F		95°F		115°F	
	TEMP.	PSIG	MBH	KW	MBH	KW	MBH	KW		TEMP.	PSIG	MBH	KW	MBH	KW	MBH	KW
AC012M1021	35	61.5	13.1	1.01	11.6	1.20	10.1	1.40	AC042X1021	35	61.5	35.8	3.83	28.9	4.25	24.2	4.53
	40	68.5	14.5	1.03	12.8	1.23	11.2	1.44		40	68.5	39.1	3.86	32.9	4.34	28.2	4.72
	45	76.0	15.9	1.04	14.1	1.26	12.4	1.47		45	76.0	42.6	3.90	36.8	4.53	31.3	4.87
	50	84.0	17.4	1.06	15.5	1.28	13.6	1.51		50	84.0	45.8	3.93	40.8	4.63	35.0	5.03
AC018M1021	35	61.5	16.2	1.66	13.1	1.84	11.0	1.96	AC048X1021 AC048X1031,41	35	61.5	39.9	4.18	32.3	4.63	27.0	4.94
	40	68.5	17.7	1.67	14.9	1.88	12.8	2.04		40	68.5	43.6	4.21	36.7	4.73	31.4	5.14
	45	76.0	19.3	1.69	16.7	1.92	14.2	2.11		45	76.0	47.6	4.26	41.1	4.84	34.9	5.32
	50	84.0	20.8	1.70	18.5	1.96	15.9	2.18		50	84.0	51.1	4.28	45.5	4.94	39.0	5.48
AC024M1021	35	61.5	21.0	2.23	17.0	2.46	14.2	2.63	AC060X1022	35	61.5	49.4	4.15	43.8	5.13	38.2	6.34
	40	68.5	22.9	2.24	19.3	2.52	16.5	2.74		40	68.5	54.0	4.19	48.2	5.14	42.3	6.35
	45	76.0	25.0	2.27	21.6	2.58	18.3	2.83		45	76.0	58.4	4.27	52.4	5.25	46.3	6.47
	50	84.0	26.8	2.28	23.9	2.63	20.5	2.92		50	84.0	62.7	4.32	56.9	5.38	50.2	5.61
AC030M1021	35	61.5	25.1	2.68	20.3	2.97	17.0	3.17	AC060X1031,41	35	61.5	54.4	4.46	50.5	4.74	46.3	5.08
	40	68.5	27.4	2.70	23.1	3.04	19.7	3.30		40	68.5	60.1	4.44	56.0	4.83	51.6	5.18
	45	76.0	29.9	2.74	25.8	3.10	21.9	3.41		45	76.0	65.8	4.53	61.6	4.92	56.9	5.26
	50	84.0	32.1	2.75	28.6	3.17	24.5	3.51		50	84.0	71.9	4.62	67.5	5.01	62.6	5.36
AC036X1021 AC036X1031,41	35	61.5	30.5	3.28	24.7	3.64	20.6	3.88									
	40	68.5	33.3	3.31	28.1	3.72	24.0	4.04									
	45	76.0	36.4	3.35	31.4	3.80	26.7	4.18									
	50	84.0	39.1	3.36	34.8	3.88	29.9	4.31									

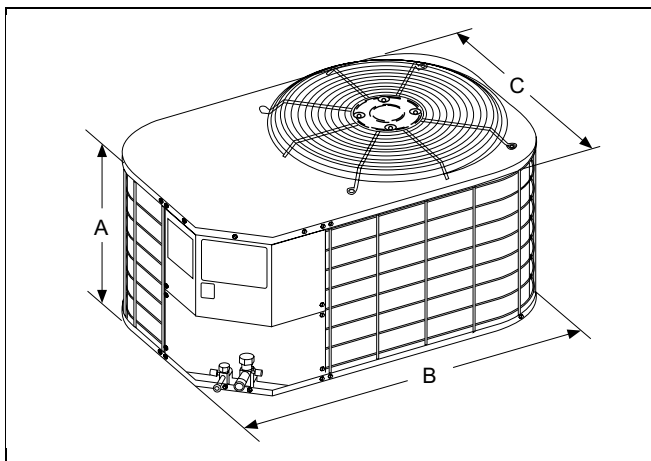
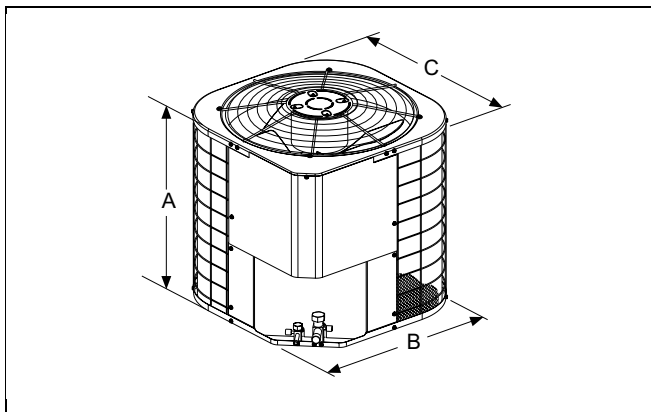
1. For condensing unit only. Does not include effect of evaporator motor power or heat.

2. Performance based on 15° superheat and 15° sub-cooling at condensing unit.

a. Increase capacity 1% for each 2° increase in sub-cooling.

b. Decrease capacity 1% for each 2° decrease in sub-cooling.

3. Sub-cooling in excess of 20° may result in excessively high condensing temperature with air on condenser above 115°. Maximum recommended condensing temperature is 140°F.



DIMENSIONS - 1 Phase

UNIT MODEL	DIMENSIONS (INCHES)			REFRIGERANT CONNECTION LINE SIZE	
	A ¹	B	C	Liquid	Vapor
012	22	21-3/4	21-3/4	3/8"	5/8"
018	22	21-3/4	21-3/4		5/8"
024	22	21-3/4	21-3/4		5/8"
030	24	21-3/4	21-3/4		3/4"
036	19	35	23		3/4"
042	25	35	23		3/4"
048	27	38	27		7/8"
060	27	37	27		7/8"

DIMENSIONS - 3 Phase

UNIT MODEL	DIMENSIONS (INCHES)			REFRIGERANT CONNECTION LINE SIZE	
	A ¹	B	C	Liquid	Vapor
036	19	35	23	3/8	3/4
048	27	37	27	3/8	7/8
060	39	37	27	3/8	7/8

1. Including Fan guard
* Reducer Required

ACCESSORIES

Refer to Price Manual for specific model numbers.

Compressor Blanket - Designed to further reduce the normal operating sound and is required to meet Canadian sound levels for units of three tons and below.

Hard Start Kit - (Single Phase Units) - provides required starting torque for used with thermal expansion valve.

Room Thermostats - One of the following thermostat may be used with these systems.

6TH07700124 - One Stage Heat / One Stage Cool, non-programmable thermostat, manual changeover with automatic fan on cooling or cooling and heating.

3110-350P - One Stage Heat / One Stage Cool, manual changeover, non-programmable thermostat.

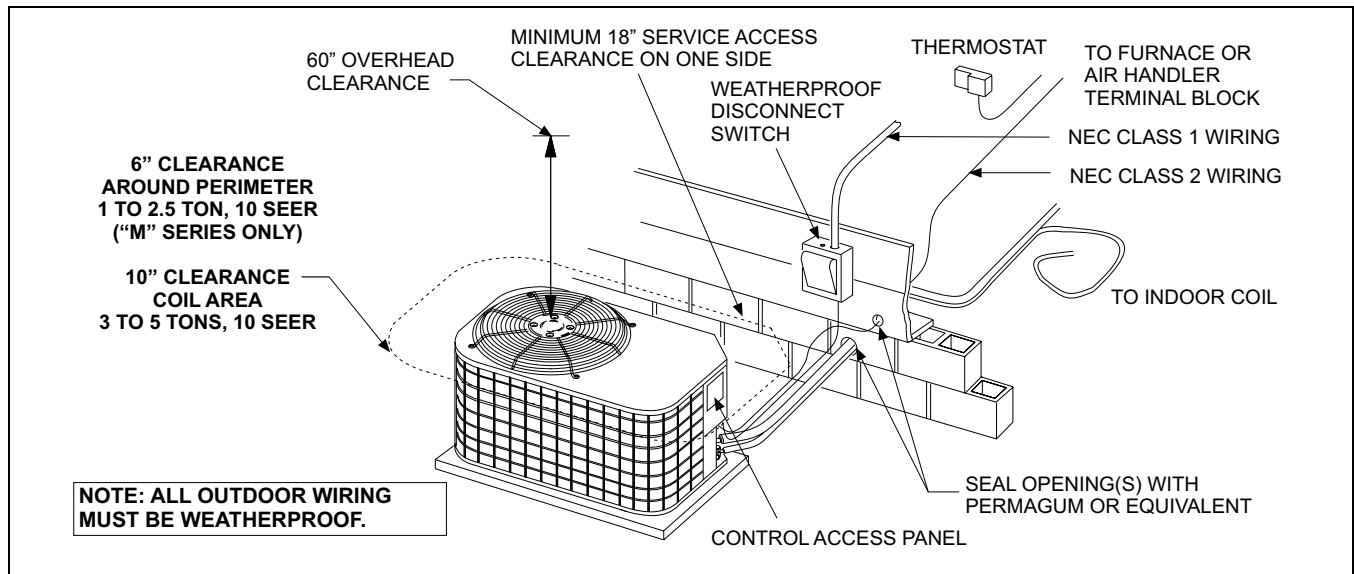
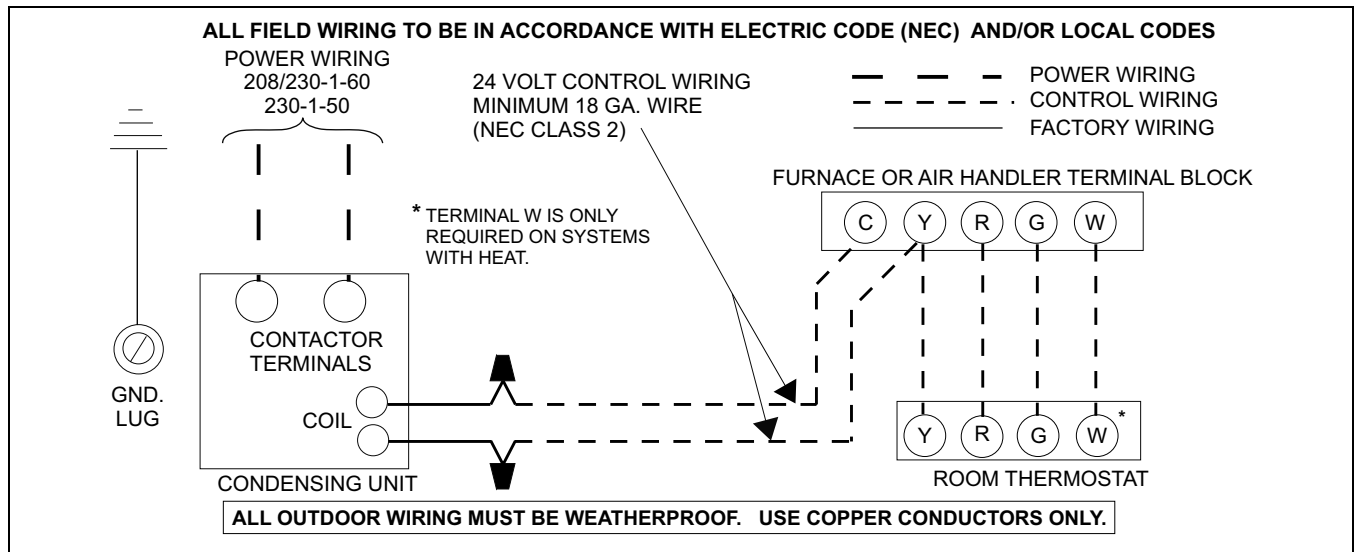
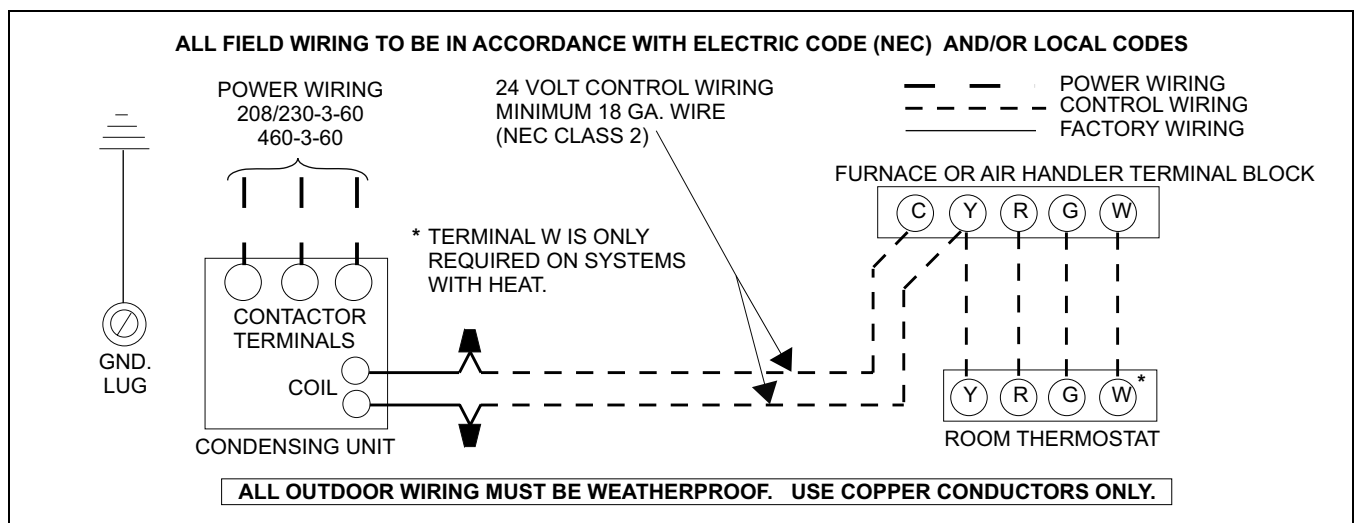
6ET07700324 - One Stage Heat / One Stage Cool, electronic programmable (5 day/2 day) manual changeover.

UNIT MODEL	SOUND RATINGS DECIBELS
012	72
018	74
024	75
030	76
036	82
042	82
048	82
060	80



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



TYPICAL INSTALLATION - AC012M1021 THRU 030 AND AC036X1021 THRU 060**TYPICAL FIELD WIRING - 1 PHASE APPLICATION****TYPICAL FIELD WIRING - 3 PHASE APPLICATION**

COOLING PERFORMANCE DATA FOR UNITS

INDOOR AIR		CONDENSER ENTERING AIR TEMPERATURE																	
		65			75			85			95			105			115		
		CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH		
ID CFM	ID DB/WB	T.C.	S.C	KW	T.C.	S.C	KW	T.C.	S.C	KW	T.C.	S.C	KW	T.C.	S.C	KW	T.C.	S.C	KW
AC012M1021																			
G1NA024S17G																			
400	85/71	15.7	9.2	0.94	15.5	9.3	1.05	15.4	9.4	1.15	15.2	9.6	1.26	14.3	9.2	1.39	13.4	8.9	1.52
	80/67	15.1	9.3	0.94	14.7	9.3	1.04	14.3	9.2	1.15	13.9	9.2	1.26	13.1	8.7	1.38	12.2	8.3	1.50
	75/63	14.6	9.1	0.94	13.9	8.9	1.04	13.2	8.7	1.15	12.5	8.5	1.25	11.7	8.0	1.36	11.0	7.5	1.48
450	85/71	15.7	9.5	0.94	15.5	9.6	1.05	15.4	9.8	1.16	15.3	10.0	1.27	14.5	9.7	1.39	13.6	9.5	1.52
	80/67	15.1	9.6	0.94	14.8	9.6	1.04	14.5	9.6	1.15	14.2	9.7	1.26	13.3	9.2	1.38	12.3	8.8	1.51
	75/63	14.8	9.6	0.94	14.1	9.4	1.04	13.4	9.2	1.15	12.8	9.0	1.25	12.0	8.5	1.37	11.2	8.0	1.48
500	85/71	15.6	9.8	0.94	15.6	10.0	1.05	15.5	10.2	1.16	15.4	10.3	1.27	14.6	10.2	1.40	13.7	10.0	1.52
	80/67	15.0	9.9	0.94	14.9	10.0	1.04	14.7	10.1	1.15	14.5	10.2	1.26	13.5	9.8	1.39	12.5	9.3	1.51
	75/63	15.0	10.1	0.94	14.3	9.9	1.04	13.7	9.7	1.15	13.1	9.6	1.26	12.2	9.1	1.37	11.3	8.6	1.48
AC018M1021																			
G1FA/G1UA024S17A																			
500	85/71	22.1	12.3	1.26	21.3	12.2	1.37	20.4	12.2	1.48	19.5	12.2	1.58	18.0	11.6	1.68	16.4	11.1	1.78
	80/67	20.7	12.1	1.25	19.8	11.9	1.35	18.8	11.8	1.46	17.9	11.7	1.56	16.0	10.8	1.64	14.1	10.0	1.73
	75/63	19.7	12.1	1.25	18.4	11.7	1.34	17.1	11.2	1.43	15.7	10.8	1.53	14.0	10.0	1.60	12.2	9.2	1.68
650	85/71	22.3	12.6	1.27	21.4	13.0	1.38	20.6	13.3	1.48	19.8	13.7	1.59	18.3	13.4	1.70	16.9	13.1	1.80
	80/67	21.1	12.8	1.26	20.2	13.0	1.36	19.2	13.2	1.47	18.3	13.4	1.57	16.6	12.7	1.66	14.9	12.0	1.75
	75/63	20.1	13.4	1.25	18.9	13.1	1.35	17.7	12.7	1.44	16.4	12.4	1.54	14.6	11.7	1.62	12.8	10.9	1.70
800	85/71	22.4	13.0	1.28	21.6	13.7	1.39	20.8	14.4	1.49	20.0	15.1	1.60	18.7	15.1	1.71	17.5	15.1	1.82
	80/67	21.5	13.6	1.27	20.6	14.1	1.37	19.6	14.6	1.48	18.7	15.1	1.58	17.1	14.5	1.67	15.6	13.9	1.77
	75/63	20.6	14.7	1.26	19.4	14.5	1.36	18.3	14.3	1.46	17.1	14.1	1.55	15.2	13.3	1.63	13.4	12.6	1.72
AC024M1021																			
G1FA/G1UA024S17A																			
650	85/71	28.7	16.4	1.87	27.3	16.2	2.01	25.9	16.0	2.15	24.5	15.8	2.29	22.5	15.1	2.49	20.5	14.3	2.69
	80/67	27.3	16.5	1.84	25.6	16.0	1.97	23.9	15.5	2.10	22.3	15.0	2.22	20.2	14.2	2.40	18.2	13.4	2.58
	75/63	24.8	16.0	1.82	23.3	15.2	1.93	21.9	14.5	2.04	20.5	13.7	2.16	18.1	12.9	2.33	15.7	12.2	2.51
850	85/71	28.9	17.6	1.88	27.5	17.7	2.03	26.2	17.7	2.17	24.8	17.8	2.32	22.9	17.3	2.53	21.0	16.7	2.73
	80/67	27.4	17.8	1.85	26.0	17.6	1.99	24.5	17.4	2.12	23.0	17.2	2.26	20.9	16.4	2.44	18.8	15.5	2.61
	75/63	25.7	17.9	1.83	24.1	17.2	1.95	22.5	16.5	2.07	20.9	15.8	2.19	18.7	15.0	2.36	16.4	14.1	2.53
1050	85/71	29.0	18.8	1.89	27.8	19.1	2.04	26.5	19.5	2.19	25.2	19.8	2.34	23.3	19.4	2.56	21.5	19.1	2.78
	80/67	27.6	19.1	1.86	26.3	19.2	2.00	25.1	19.3	2.15	23.8	19.4	2.29	21.6	18.5	2.47	19.4	17.7	2.65
	75/63	26.6	19.9	1.85	24.8	19.2	1.97	23.1	18.6	2.09	21.4	17.9	2.21	19.2	17.0	2.38	17.1	16.0	2.56
AC030M1021																			
G1NA030S17K																			
850	85/71	33.6	19.1	2.22	32.3	18.7	2.40	30.9	18.4	2.59	29.5	18.0	2.78	27.5	17.3	2.95	25.5	16.6	3.13
	80/67	32.7	18.9	2.21	30.9	18.5	2.37	29.1	18.1	2.54	27.3	17.7	2.70	25.2	16.8	2.86	23.1	15.9	3.01
	75/63	30.5	18.9	2.18	28.6	18.3	2.33	26.8	17.8	2.47	24.9	17.2	2.62	22.6	16.1	2.77	20.2	15.0	2.91
1050	85/71	34.1	19.5	2.23	32.8	19.5	2.42	31.5	19.5	2.62	30.2	19.5	2.81	28.2	18.8	2.99	26.3	18.1	3.17
	80/67	33.0	19.9	2.21	31.3	19.6	2.39	29.6	19.3	2.56	28.0	19.0	2.73	25.9	18.2	2.89	23.8	17.4	3.05
	75/63	31.4	20.2	2.19	29.5	19.6	2.35	27.5	19.0	2.50	25.6	18.5	2.65	23.3	17.5	2.80	21.0	16.5	2.94
1250	85/71	34.5	19.9	2.24	33.2	20.3	2.44	32.0	20.6	2.64	30.8	20.9	2.84	28.9	20.3	3.03	27.0	19.7	3.21
	80/67	33.3	20.8	2.22	31.8	20.7	2.40	30.2	20.5	2.58	28.6	20.3	2.76	26.5	19.6	2.93	24.5	18.8	3.09
	75/63	32.2	21.5	2.21	30.3	20.9	2.37	28.3	20.3	2.53	26.3	19.8	2.69	24.1	18.9	2.83	21.8	18.1	2.98

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

KW RATING IS FOR OUTDOOR UNIT ONLY.

COOLING PERFORMANCE DATA FOR UNITS

INDOOR AIR		CONDENSER ENTERING AIR TEMPERATURE																	
		65			75			85			95			105			115		
		CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH		
ID CFM	ID DB/WB	T.C.	S.C	KW	T.C.	S.C	KW	T.C.	S.C	KW	T.C.	S.C	KW	T.C.	S.C	KW	T.C.	S.C	KW
AC036X1021 AND AC036X10(31,41)																			
G2FD036S17																			
1150	85/71	40.1	24.0	2.94	38.7	24.2	3.20	37.2	24.3	3.46	35.8	24.5	3.72	33.5	24.0	3.97	31.3	23.4	4.22
	80/67	37.9	24.0	2.91	36.4	23.9	3.16	34.9	23.8	3.40	33.5	23.7	3.65	30.6	22.5	3.86	27.8	21.4	4.07
	75/63	37.1	25.3	2.87	34.8	24.2	3.10	32.5	23.0	3.32	30.2	21.9	3.54	26.9	20.8	3.73	23.7	19.7	3.91
1250	85/71	39.4	23.6	2.94	38.3	24.3	3.20	37.3	24.9	3.46	36.1	25.6	3.73	33.8	24.8	3.98	31.5	24.2	4.24
	80/67	38.1	24.5	2.91	36.7	24.7	3.17	35.2	24.7	3.42	33.8	25.0	3.67	31.1	23.6	3.88	28.4	22.6	4.10
	75/63	37.2	25.6	2.88	35.0	24.9	3.11	32.9	24.0	3.33	30.5	23.5	3.56	27.4	21.9	3.74	24.4	20.8	3.91
1350	85/71	39.4	24.2	2.93	38.4	24.9	3.20	37.3	25.5	3.47	36.3	26.2	3.74	34.0	25.6	3.99	31.7	25.1	4.25
	80/67	38.0	25.3	2.90	36.8	25.4	3.17	35.5	25.6	3.43	34.3	25.8	3.70	31.5	24.7	3.91	28.7	23.7	4.12
	75/63	37.3	25.9	2.89	35.3	25.4	3.12	33.2	24.9	3.35	31.2	24.4	3.57	27.9	23.1	3.75	24.5	21.7	3.94
G1NA036S17J, G1NA036S21C																			
1150	85/71	41.0	24.7	3.00	39.5	24.8	3.27	37.9	24.8	3.53	36.4	24.9	3.80	34.1	24.3	4.05	31.8	23.7	4.30
	80/67	38.6	24.6	2.97	37.1	24.5	3.22	35.6	24.3	3.47	34.1	24.2	3.72	31.3	23.0	3.94	28.5	21.8	4.16
	75/63	37.6	25.6	2.95	35.3	24.6	3.17	33.0	23.5	3.39	30.7	22.4	3.61	27.4	21.2	3.80	24.0	20.0	3.99
1250	85/71	40.2	24.3	3.00	39.1	24.9	3.27	37.9	25.4	3.54	36.7	25.9	3.81	34.3	25.2	4.07	32.0	24.5	4.32
	80/67	38.9	25.2	2.98	37.4	25.3	3.23	35.9	25.4	3.49	34.4	25.5	3.75	31.7	24.3	3.97	29.0	23.1	4.19
	75/63	37.7	26.0	2.95	35.5	25.4	3.18	33.3	24.7	3.41	31.1	24.1	3.63	27.9	22.6	3.81	24.7	21.2	3.99
1350	85/71	40.3	24.9	2.99	39.2	25.5	3.27	38.0	26.0	3.55	36.9	26.5	3.82	34.5	25.9	4.08	32.2	25.4	4.33
	80/67	38.8	25.9	2.97	37.5	26.0	3.23	36.2	26.1	3.50	34.9	26.2	3.77	32.1	25.2	3.99	29.3	24.2	4.21
	75/63	37.8	26.3	2.96	35.8	25.8	3.19	33.8	25.4	3.42	31.8	25.0	3.65	28.4	23.5	3.83	24.9	22.1	4.01
G1FA/G1UA036S17.21																			
1150	85/71	39.7	23.9	2.97	38.3	24.0	3.23	36.9	24.2	3.49	35.5	24.3	3.75	33.2	23.7	4.01	31.0	23.1	4.26
	80/67	37.5	23.8	2.94	36.1	23.7	3.18	34.6	23.7	3.43	33.2	23.6	3.67	30.4	22.5	3.88	27.6	21.3	4.10
	75/63	36.7	25.0	2.91	34.4	24.0	3.13	32.2	22.9	3.34	30.0	21.9	3.56	26.7	20.7	3.75	23.5	19.6	3.94
1250	85/71	39.0	23.5	2.97	37.9	24.1	3.23	36.9	24.7	3.50	35.8	25.4	3.76	33.4	24.5	4.02	31.1	23.9	4.29
	80/67	37.7	24.3	2.95	36.3	24.5	3.20	34.9	24.6	3.44	33.6	24.9	3.69	30.8	23.6	3.91	28.2	22.6	4.13
	75/63	36.8	25.3	2.91	34.6	24.7	3.14	32.6	23.9	3.36	30.4	23.6	3.58	27.2	21.9	3.77	24.2	20.7	3.94
1350	85/71	39.0	24.0	2.96	38.0	24.7	3.23	37.0	25.3	3.50	36.0	26.0	3.77	33.6	25.4	4.03	31.3	24.8	4.30
	80/67	37.6	25.1	2.94	36.4	25.3	3.20	35.2	25.5	3.46	34.0	25.6	3.72	31.3	24.6	3.93	28.5	23.7	4.15
	75/63	36.8	25.6	2.92	34.9	25.2	3.15	33.0	24.8	3.37	31.0	24.4	3.59	27.7	23.0	3.78	24.4	21.6	3.97
F2RP036																			
1150	85/71	44.3	25.7	3.30	41.7	25.4	3.45	39.1	25.1	3.60	36.6	24.8	3.76	33.7	24.0	3.84	30.8	23.3	3.93
	80/67	41.4	25.4	3.24	38.9	24.9	3.38	36.5	24.4	3.53	34.0	23.9	3.67	30.8	22.6	3.74	27.6	21.2	3.81
	75/63	40.0	26.3	3.19	36.9	24.9	3.31	33.7	23.5	3.43	30.6	22.1	3.55	26.8	20.7	3.60	23.0	19.3	3.65
1250	85/71	43.5	25.3	3.30	41.3	25.5	3.45	39.2	25.7	3.61	36.9	25.9	3.77	33.9	24.9	3.86	30.9	24.1	3.95
	80/67	41.7	26.0	3.25	39.3	25.7	3.40	36.8	25.3	3.54	34.4	25.2	3.69	31.2	23.7	3.76	28.1	22.5	3.84
	75/63	40.1	26.7	3.19	37.1	25.7	3.32	34.1	24.5	3.44	31.0	23.8	3.57	27.3	21.9	3.61	23.7	20.4	3.65
1350	85/71	43.6	25.9	3.29	41.4	26.1	3.45	39.2	26.3	3.62	37.1	26.4	3.78	34.1	25.7	3.87	31.1	24.9	3.96
	80/67	41.6	26.8	3.24	39.4	26.5	3.40	37.1	26.3	3.55	34.9	26.0	3.71	31.7	24.8	3.79	28.4	23.6	3.86
	75/63	40.2	27.0	3.20	37.4	26.3	3.33	34.5	25.5	3.45	31.7	24.7	3.58	27.8	23.0	3.62	23.9	21.3	3.67

NOTE: ALL CAPACITIES ARE NET WITH INDOOR FAN HEAT ALREADY DEDUCTED AT 1250 BTUH/1000 CFM.
KW RATING IS FOR OUTDOOR UNIT ONLY.

COOLING PERFORMANCE DATA FOR UNITS

INDOOR AIR		CONDENSER ENTERING AIR TEMPERATURE																	
		65			75			85			95			105			115		
		CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH		
ID CFM	ID DB/WB	T.C.	S.C	KW	T.C.	S.C	KW	T.C.	S.C	KW	T.C.	S.C	KW	T.C.	S.C	KW	T.C.	S.C	KW
AC042X1021)																			
G2FD042S21																			
1200	85/72	47.4	27.0	3.16	45.8	27.2	3.44	45.2	27.8	3.74	42.7	27.6	4.01	39.0	26.7	4.26	35.1	25.3	4.50
	80/67	43.3	26.8	3.03	41.9	27.1	3.30	41.4	27.8	3.58	39.1	27.7	3.85	35.8	26.7	4.09	32.3	25.3	4.33
	75/63	39.9	25.8	2.91	38.6	26.0	3.18	38.1	26.7	3.45	35.9	26.5	3.71	33.0	25.5	3.95	29.9	24.4	4.15
	70/57	35.5	26.9	2.78	34.4	27.2	3.03	34.2	28.2	3.29	32.2	27.8	3.54	29.5	26.7	3.76	26.9	25.3	3.98
1400	85/72	48.1	27.9	3.19	46.4	28.3	3.47	45.7	29.1	3.77	43.1	29.2	4.04	39.4	28.2	4.29	35.4	26.9	4.53
	80/67	43.9	27.7	3.06	42.4	28.2	3.33	41.9	29.1	3.61	39.5	29.2	3.88	36.2	28.3	4.12	32.6	26.8	4.36
	75/63	40.3	26.5	2.94	39.1	27.1	3.21	38.7	28.0	3.48	36.5	28.2	3.74	33.4	27.0	3.98	30.2	25.9	4.19
	70/57	36.0	27.8	2.81	34.9	28.3	3.06	34.8	29.6	3.32	32.7	29.3	3.57	30.1	28.3	3.79	27.7	26.4	4.05
1600	85/72	48.4	28.3	3.19	46.7	28.9	3.48	46.0	29.9	3.78	43.3	30.1	4.06	39.5	29.3	4.30	35.6	27.9	4.55
	80/67	44.2	28.3	3.07	42.7	28.9	3.34	42.2	30.0	3.63	39.7	30.2	3.89	36.4	29.3	4.14	32.7	27.8	4.37
	75/63	40.7	27.1	2.94	39.4	27.7	3.22	38.9	28.8	3.49	36.8	29.1	3.76	33.6	27.9	4.00	30.6	26.7	4.21
	70/57	36.1	28.3	2.81	35.1	29.0	3.07	35.1	30.4	3.34	33.2	30.5	3.59	30.8	29.4	3.85	28.1	26.8	4.08
G1NA048S21D, G1NA048S24P																			
1200	85/71	48.3	27.8	3.22	46.4	27.6	3.48	44.5	27.5	3.74	42.6	27.3	4.00	39.1	26.1	4.24	35.5	24.9	4.48
	80/67	46.2	29.1	3.17	43.6	28.1	3.41	41.1	27.2	3.65	38.5	26.2	3.89	35.0	24.8	4.09	31.4	23.3	4.29
	75/63	43.4	28.5	3.15	40.2	27.1	3.34	37.1	25.8	3.54	33.9	24.4	3.73	31.1	23.2	3.94	28.2	22.0	4.14
1400	85/71	49.1	29.1	3.23	47.2	29.1	3.50	45.3	29.0	3.77	43.4	28.9	4.04	39.9	28.0	4.28	36.5	27.1	4.53
	80/67	46.8	29.8	3.19	44.4	29.3	3.44	42.0	28.8	3.68	39.6	28.3	3.92	35.9	26.8	4.13	32.2	25.4	4.34
	75/63	44.4	30.1	3.16	41.3	28.9	3.37	38.2	27.6	3.57	35.1	26.4	3.78	31.9	25.1	3.98	28.8	23.8	4.18
1600	85/71	49.8	30.5	3.25	47.9	30.5	3.52	46.0	30.5	3.80	44.1	30.5	4.07	40.8	29.9	4.32	37.4	29.3	4.57
	80/67	47.4	30.6	3.22	45.1	30.5	3.46	42.9	30.5	3.71	40.6	30.4	3.95	36.8	28.9	4.17	33.0	27.4	4.38
	75/63	45.5	31.7	3.18	42.4	30.6	3.39	39.3	29.5	3.61	36.2	28.4	3.82	32.8	27.0	4.02	29.4	25.6	4.21
G1FA/G1UA048S21																			
1200	85/72	50.0	28.4	3.19	48.1	28.5	3.47	47.3	29.1	3.76	44.3	28.7	4.04	40.4	27.6	4.29	36.2	26.2	4.53
	80/67	45.7	28.3	3.06	44.0	28.4	3.33	43.3	29.1	3.60	40.6	28.7	3.88	37.0	27.6	4.11	33.4	26.2	4.35
	75/63	40.5	24.6	2.92	39.1	24.8	3.19	38.6	25.4	3.46	36.5	25.2	3.73	33.5	24.3	3.97	30.4	23.3	4.17
	70/57	37.6	28.3	2.82	36.2	28.5	3.06	35.8	29.5	3.30	33.5	29.0	3.55	30.7	27.7	3.79	28.2	26.5	4.01
1400	85/72	50.7	29.3	3.20	48.7	29.6	3.49	47.8	30.5	3.79	44.7	30.3	4.07	40.7	29.2	4.32	36.6	27.8	4.55
	80/67	46.4	29.1	3.09	44.6	29.5	3.36	43.8	30.5	3.63	41.0	30.3	3.90	37.5	29.3	4.14	33.6	27.7	4.38
	75/63	41.0	25.2	2.95	39.7	25.8	3.22	39.3	26.7	3.49	37.1	26.9	3.76	33.9	25.7	4.00	30.7	24.7	4.21
	70/57	38.0	29.3	2.82	36.7	29.7	3.08	36.4	31.0	3.33	34.1	30.6	3.60	31.6	29.7	3.84	28.9	27.1	4.08
1600	85/72	51.1	29.7	3.24	49.0	30.2	3.52	48.1	31.4	3.80	44.9	31.3	4.08	40.8	30.1	4.34	36.7	28.8	4.57
	80/67	46.9	29.8	3.10	45.0	30.3	3.37	44.1	31.4	3.65	41.2	31.3	3.92	37.7	30.3	4.16	33.8	28.7	4.39
	75/63	41.3	25.8	2.96	40.0	26.4	3.23	39.5	27.4	3.50	37.4	27.7	3.78	34.1	26.6	4.02	31.0	25.4	4.23
	70/57	38.9	30.6	2.86	37.4	30.9	3.11	36.7	31.9	3.35	34.5	31.6	3.61	32.1	30.1	3.88	29.2	27.4	4.11
F2RP042																			
1200	85/72	46.9	26.6	3.10	45.3	26.8	3.39	44.7	27.5	3.69	42.1	27.3	3.98	38.6	26.5	4.21	34.6	25.2	4.44
	80/67	42.9	26.5	2.99	41.5	26.8	3.26	41.0	27.5	3.54	38.7	27.5	3.80	35.4	26.5	4.04	31.9	25.2	4.27
	75/63	40.5	24.6	2.92	39.1	24.8	3.19	38.6	25.4	3.46	36.5	25.2	3.73	33.5	24.3	3.97	30.4	23.3	4.17
	70/57	35.1	26.6	2.74	34.0	26.9	2.99	33.9	28.0	3.25	31.9	27.6	3.50	29.3	26.6	3.72	26.9	25.4	3.94
1400	85/72	47.4	27.3	3.14	45.8	27.8	3.42	45.2	28.7	3.71	42.6	28.9	3.99	38.8	28.0	4.23	34.9	26.7	4.47
	80/67	43.4	27.3	3.01	41.9	27.8	3.28	41.4	28.8	3.56	39.0	28.9	3.82	35.7	28.0	4.07	32.1	26.6	4.30
	75/63	41.0	25.2	2.95	39.7	25.8	3.22	39.3	26.7	3.49	37.1	26.9	3.76	33.9	25.7	4.00	30.7	24.7	4.21
	70/57	35.4	27.3	2.76	34.4	27.9	3.01	34.4	29.2	3.28	32.4	29.1	3.51	29.7	27.8	3.76	27.4	25.9	4.00
1600	85/72	47.8	27.7	3.15	46.1	28.4	3.43	45.4	29.5	3.73	42.7	29.8	4.00	39.0	29.0	4.24	35.0	27.5	4.48
	80/67	43.7	27.7	3.01	42.2	28.4	3.29	41.6	29.5	3.58	39.2	29.8	3.86	35.9	28.9	4.08	32.2	27.4	4.31
	75/63	41.3	25.8	2.96	40.0	26.4	3.23	39.5	27.4	3.50	37.4	27.7	3.78	34.1	26.6	4.02	31.0	25.4	4.23
	70/57	35.6	27.8	2.76	34.6	28.5	3.02	34.6	29.9	3.29	32.7	30.0	3.54	30.4	28.7	3.80	27.7	26.2	4.01

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

KW RATING IS FOR OUTDOOR UNIT ONLY.

COOLING PERFORMANCE DATA FOR UNITS

INDOOR AIR		CONDENSER ENTERING AIR TEMPERATURE																	
		65			75			85			95			105			115		
		CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH		
ID CFM	ID DB/WB	T.C.	S.C	KW	T.C.	S.C	KW	T.C.	S.C	KW	T.C.	S.C	KW	T.C.	S.C	KW	T.C.	S.C	KW
AC048X1021 AND AC048X10(31,41)																			
G2FD048S21, 24																			
1200	85/72	56.8	33.3	3.55	54.4	32.8	3.84	52.7	32.7	4.14	49.6	31.8	4.42	46.0	30.8	4.69	42.3	29.7	4.92
	80/67	52.0	33.4	3.39	49.8	32.9	3.66	48.2	32.7	3.95	45.4	31.9	4.21	42.0	30.9	4.46	38.7	29.7	4.70
	75/63	47.6	29.8	3.25	45.7	29.5	3.50	44.4	29.6	3.77	41.9	29.0	4.02	38.9	28.2	4.27	35.9	26.9	4.49
	70/57	42.7	33.6	3.09	40.9	33.1	3.33	39.8	33.1	3.58	37.4	32.2	3.82	34.6	31.1	4.05	32.0	29.9	4.26
1400	85/72	58.0	35.1	3.59	55.4	34.7	3.88	53.5	34.6	4.19	50.3	33.9	4.47	46.5	33.0	4.73	42.7	31.9	4.96
	80/67	53.1	35.1	3.44	50.7	34.7	3.71	49.0	34.7	3.99	46.0	34.0	4.26	42.6	33.1	4.51	39.2	31.8	4.74
	75/63	48.5	31.3	3.28	46.6	31.2	3.55	45.1	31.2	3.82	42.7	30.9	4.08	39.6	30.1	4.32	36.4	28.7	4.55
	70/57	44.0	35.8	3.16	42.0	35.3	3.39	40.6	35.1	3.63	38.1	34.4	3.86	35.5	33.2	4.11	33.5	31.8	4.38
1600	85/72	58.5	36.2	3.62	55.9	36.0	3.91	54.0	36.1	4.22	50.7	35.7	4.49	46.8	34.7	4.75	43.0	33.5	5.00
	80/67	53.6	36.3	3.46	51.2	36.1	3.73	49.5	36.1	4.02	46.5	35.7	4.28	43.0	34.6	4.55	39.5	33.3	4.77
	75/63	49.1	32.4	3.31	47.1	32.3	3.58	45.8	32.9	3.85	43.1	32.2	4.11	39.9	31.2	4.36	36.8	30.1	4.59
	70/57	44.5	36.9	3.16	42.6	36.6	3.41	41.1	36.5	3.66	38.8	36.0	3.91	36.8	34.9	4.20	34.0	32.3	4.43
G1NA048S21D, G1NA048S24P																			
1200	85/71	51.3	28.5	3.52	50.5	28.8	3.83	49.7	29.2	4.14	48.9	29.5	4.45	45.3	28.5	4.71	41.6	27.4	4.97
	80/67	50.1	29.2	3.51	48.3	28.9	3.78	46.5	28.6	4.06	44.7	28.3	4.33	41.2	27.0	4.55	37.6	25.6	4.77
	75/63	49.2	30.0	3.46	46.1	28.8	3.69	43.0	27.7	3.93	39.9	26.5	4.16	36.2	25.1	4.40	32.4	23.6	4.63
1400	85/71	51.5	29.0	3.54	50.9	29.7	3.85	50.2	30.3	4.17	49.6	31.0	4.48	46.3	30.4	4.76	43.1	29.8	5.03
	80/67	50.2	30.0	3.52	48.9	30.2	3.81	47.5	30.3	4.09	46.1	30.5	4.37	42.4	29.1	4.60	38.8	27.8	4.83
	75/63	49.5	31.0	3.48	46.9	30.3	3.73	44.3	29.5	3.97	41.7	28.7	4.22	37.7	27.2	4.44	33.7	25.7	4.66
1600	85/71	51.7	29.6	3.55	51.2	30.5	3.87	50.7	31.5	4.19	50.2	32.4	4.51	47.4	32.3	4.80	44.6	32.1	5.09
	80/67	50.4	30.8	3.54	49.4	31.4	3.83	48.5	32.0	4.12	47.5	32.6	4.41	43.7	31.3	4.65	39.9	30.0	4.89
	75/63	49.9	32.1	3.50	47.7	31.7	3.76	45.6	31.3	4.02	43.4	30.9	4.28	39.2	29.4	4.48	35.0	27.8	4.68
G1FA/G1UA048S21																			
1200	85/72	55.6	32.5	3.52	53.4	32.2	3.81	52.0	32.2	4.11	49.0	31.6	4.40	45.6	30.5	4.67	41.8	29.3	4.91
	80/67	50.9	32.7	3.37	48.9	32.3	3.64	47.5	32.3	3.92	44.9	31.6	4.19	41.6	30.6	4.45	38.3	29.5	4.67
	75/63	46.9	31.3	3.23	45.1	31.0	3.49	43.7	31.1	3.75	41.3	30.4	4.00	38.4	29.5	4.25	35.3	28.2	4.47
	70/57	41.9	32.9	3.08	40.2	32.5	3.32	39.2	32.7	3.56	36.9	31.8	3.80	34.3	30.9	4.03	31.7	29.6	4.25
1400	85/72	56.7	34.3	3.57	54.3	34.0	3.86	52.7	34.1	4.16	49.6	33.5	4.44	46.0	32.6	4.72	42.3	31.6	4.94
	80/67	52.0	34.2	3.41	49.8	34.0	3.68	48.3	34.1	3.97	45.5	33.7	4.23	42.2	32.8	4.49	38.8	31.4	4.73
	75/63	47.8	32.8	3.26	45.9	32.7	3.53	44.5	32.8	3.80	42.0	32.4	4.06	39.0	31.5	4.30	35.8	30.1	4.52
	70/57	43.2	35.2	3.13	41.3	34.7	3.37	40.0	34.7	3.60	37.6	33.8	3.85	35.0	32.8	4.09	33.0	31.5	4.36
1600	85/72	57.4	35.4	3.58	54.9	35.2	3.88	53.2	35.4	4.19	50.0	34.9	4.48	46.2	34.1	4.74	42.5	33.0	4.98
	80/67	52.6	35.5	3.43	50.3	35.3	3.71	48.7	35.5	4.00	45.8	35.0	4.27	42.5	34.2	4.53	39.0	32.9	4.76
	75/63	48.4	34.0	3.29	46.4	33.9	3.56	45.2	34.5	3.83	42.4	33.7	4.09	39.3	32.7	4.34	36.2	31.5	4.56
	70/57	43.6	36.1	3.15	41.8	35.9	3.39	40.5	36.0	3.63	38.3	35.6	3.88	36.2	34.5	4.18	33.5	32.0	4.41
F2RP048																			
1200	85/72	56.1	33.6	3.67	53.8	33.1	3.96	52.2	32.8	4.27	49.2	32.1	4.55	45.6	30.8	4.83	41.9	29.6	5.08
	80/67	51.3	33.6	3.50	49.2	33.1	3.78	47.7	32.9	4.07	45.0	32.1	4.34	41.6	30.9	4.60	38.3	29.6	4.84
	75/63	47.6	29.8	3.25	45.7	29.5	3.50	44.4	29.6	3.77	41.9	29.0	4.02	38.9	28.2	4.27	35.9	26.9	4.49
	70/57	42.1	33.8	3.20	40.3	33.3	3.44	39.0	33.1	3.68	36.8	32.3	3.93	34.2	31.3	4.16	31.4	29.8	4.39
1400	85/72	57.2	35.2	3.70	54.7	34.7	4.00	53.0	34.5	4.31	49.8	33.7	4.60	46.1	32.6	4.88	42.4	31.4	5.12
	80/67	52.3	35.2	3.54	50.0	34.7	3.82	48.4	34.5	4.11	45.5	33.7	4.39	42.1	32.6	4.65	38.8	31.4	4.89
	75/63	48.5	31.3	3.28	46.6	31.2	3.55	45.1	31.2	3.82	42.7	30.9	4.08	39.6	30.1	4.32	36.4	28.7	4.55
	70/57	42.9	35.3	3.24	41.1	34.9	3.48	40.0	35.0	3.73	37.6	34.2	3.97	34.9	33.1	4.23	32.1	31.5	4.44
1600	85/72	57.8	36.0	3.72	55.2	35.6	4.02	53.4	35.5	4.34	50.1	34.8	4.63	46.4	33.8	4.90	42.5	32.5	5.14
	80/67	52.8	36.1	3.56	50.5	35.7	3.84	48.8	35.6	4.14	45.9	35.0	4.40	42.5	33.9	4.67	39.0	32.5	4.91
	75/63	49.1	32.4	3.31	47.1	32.3	3.58	45.8	32.9	3.85	43.1	32.2	4.11	39.9	31.2	4.36	36.8	30.1	4.59
	70/57	43.8	36.8	3.27	41.8	36.3	3.51	40.4	36.0	3.76	37.9	35.3	4.00	35.2	34.1	4.25	33.2	32.8	4.53

NOTE: ALL CAPACITIES ARE NET WITH INDOOR FAN HEAT ALREADY DEDUCTED AT 1250 BTUH/1000 CFM.
KW RATING IS FOR OUTDOOR UNIT ONLY.

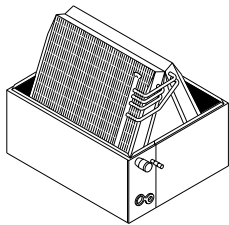
COOLING PERFORMANCE DATA FOR UNITS

INDOOR AIR		CONDENSER ENTERING AIR TEMPERATURE																	
		65			75			85			95			105			115		
		CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH			CAPACITY MBTUH		
ID CFM	ID DB/WB	T.C.	S.C	KW	T.C.	S.C	KW	T.C.	S.C	KW	T.C.	S.C	KW	T.C.	S.C	KW	T.C.	S.C	KW
AC060X1022																			
G2FD060S24, G1FA/G1UA060S21,24																			
2050	85/72	66.6	46.7	3.93	64.7	46.4	4.43	62.8	46.0	4.94	60.9	45.8	5.44	57.2	44.7	6.07	53.5	43.7	6.72
	80/67	64.1	45.7	3.91	61.9	45.0	4.38	59.6	44.4	4.86	57.3	43.6	5.35	53.4	42.2	5.95	49.5	40.6	6.57
	75/63	61.0	44.1	3.80	58.2	43.0	4.28	55.4	42.0	4.77	52.7	40.9	5.25	48.4	39.4	5.81	44.1	37.8	6.39
1800	85/72	66.0	43.8	3.91	64.1	43.4	4.42	62.3	42.9	4.92	60.4	42.5	5.43	56.6	41.4	6.05	52.8	40.3	6.69
	80/67	63.8	43.1	3.88	61.2	42.2	4.36	58.6	41.3	4.84	56.0	40.3	5.33	52.3	39.1	5.93	48.5	37.7	6.53
	75/63	60.1	41.6	3.79	57.2	40.4	4.26	54.3	39.3	4.74	51.5	38.1	5.21	47.4	36.7	5.78	43.3	35.2	6.35
1550	85/72	65.5	40.9	3.90	63.6	40.4	4.40	61.8	39.8	4.91	59.9	39.3	5.41	56.0	38.1	6.03	52.1	36.9	6.65
	80/67	63.4	40.6	3.86	60.5	39.4	4.34	57.6	38.3	4.83	54.7	37.1	5.31	51.1	36.0	5.90	47.5	34.8	6.49
	75/63	59.2	39.1	3.78	56.2	37.8	4.24	53.3	36.6	4.71	50.3	35.3	5.17	46.4	33.9	5.74	42.4	32.5	6.31
G1NA060S24T																			
2050	85/71	65.1	45.8	3.87	63.2	45.4	4.38	61.3	45.1	4.89	59.4	44.8	5.40	55.8	43.8	6.04	52.2	42.8	6.69
	80/67	62.4	44.6	3.85	60.4	44.1	4.33	58.4	43.5	4.81	56.3	42.9	5.31	52.2	41.3	5.91	48.1	39.6	6.53
	75/63	59.5	43.1	3.76	56.7	42.0	4.24	54.0	41.0	4.72	51.3	39.9	5.20	47.0	38.4	5.75	42.8	36.8	6.31
1800	85/71	64.5	42.9	3.86	62.6	42.4	4.37	60.8	42.0	4.88	58.9	41.6	5.39	55.2	40.5	6.02	51.5	39.4	6.66
	80/67	62.0	42.0	3.83	59.7	41.3	4.31	57.4	40.5	4.80	55.0	40.0	5.29	51.1	38.2	5.89	47.1	36.7	6.49
	75/63	58.5	40.6	3.75	55.7	39.4	4.22	52.9	38.3	4.69	50.1	37.1	5.16	46.0	35.7	5.71	42.0	34.2	6.27
1550	85/71	64.0	40.0	3.84	62.1	39.4	4.35	60.3	38.9	4.86	58.4	38.3	5.37	54.6	37.1	6.00	50.8	36.0	6.62
	80/67	61.7	39.5	3.80	59.0	38.5	4.29	56.4	37.4	4.78	53.7	36.4	5.27	49.9	35.1	5.86	46.1	33.8	6.45
	75/63	57.6	38.1	3.74	54.7	36.8	4.20	51.8	35.6	4.66	48.9	34.3	5.12	45.0	32.9	5.68	41.1	31.5	6.23
F2RP060																			
2050	85/72	69.0	49.6	3.92	66.5	48.7	4.42	64.0	47.8	4.93	62.5	47.0	5.43	56.4	44.1	6.06	54.5	43.5	6.71
	80/67	68.0	48.5	3.95	63.5	46.2	4.41	59.1	44.0	4.87	57.6	43.8	5.35	52.8	41.7	5.95	49.5	40.7	6.56
	75/63	63.4	45.9	3.79	59.0	43.6	4.27	54.6	41.3	4.76	52.7	40.9	5.24	47.5	38.7	5.80	44.7	38.4	6.38
1800	85/72	67.9	44.0	3.90	64.7	43.8	4.41	61.5	43.6	4.91	60.8	42.9	5.42	55.8	40.8	6.04	52.9	40.4	6.68
	80/67	65.2	44.2	3.93	61.6	42.6	4.39	58.1	40.9	4.86	56.0	40.3	5.33	51.6	38.6	5.92	48.0	37.4	6.52
	75/63	60.9	42.3	3.78	57.2	40.5	4.25	53.5	38.7	4.73	51.1	37.8	5.20	46.5	36.0	5.77	43.1	35.1	6.34
1550	85/72	64.7	40.4	3.89	62.8	39.9	4.39	61.0	39.3	4.90	59.1	38.8	5.40	55.2	37.5	6.02	51.3	36.3	6.64
	80/67	62.4	39.9	3.90	59.7	38.9	4.37	57.1	37.9	4.84	54.4	36.9	5.31	50.5	35.5	5.90	46.5	34.1	6.48
	75/63	58.4	38.6	3.77	55.4	37.3	4.23	52.4	36.0	4.70	49.4	34.7	5.16	45.5	33.3	5.73	41.5	31.8	6.30
AC060X10(31,41)																			
G2FD060S24A																			
1450	85/71	61.8	37.7	3.64	61.2	37.6	4.17	60.6	37.6	4.71	60.0	37.5	5.24	58.1	36.9	5.86	56.2	36.2	6.47
	80/67	59.1	37.6	3.59	58.5	37.4	4.09	58.0	37.3	4.60	57.4	37.1	5.10	54.6	36.0	5.72	51.8	34.9	6.33
	75/63	57.6	37.7	3.53	56.3	37.1	4.04	55.0	36.5	4.55	53.7	35.9	5.06	50.0	34.4	5.63	46.3	32.9	6.19
1700	85/71	62.3	39.9	3.65	61.8	40.1	4.18	61.2	40.2	4.72	60.7	40.3	5.25	58.9	39.8	5.87	57.1	39.3	6.49
	80/67	59.5	39.9	3.59	59.1	39.9	4.10	58.6	39.9	4.60	58.2	39.9	5.11	55.7	39.0	5.74	53.2	38.1	6.38
	75/63	58.0	39.8	3.55	56.9	39.5	4.06	55.8	39.1	4.56	54.8	38.8	5.07	51.3	37.3	5.64	47.9	35.9	6.22
1950	85/71	62.8	42.2	3.66	62.3	42.5	4.19	61.9	42.8	4.73	61.4	43.1	5.26	59.7	42.7	5.88	57.9	42.3	6.50
	80/67	59.9	42.2	3.59	59.6	42.3	4.10	59.3	42.5	4.61	59.0	42.6	5.12	56.8	41.9	5.77	54.5	41.2	6.42
	75/63	58.4	41.9	3.57	57.5	41.8	4.07	56.7	41.7	4.58	55.8	41.6	5.08	52.7	40.2	5.66	49.5	38.8	6.24

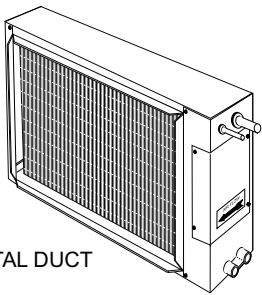
NOTE: ALL CAPACITIES ARE NET WITH INDOOR FAN HEAT ALREADY DEDUCTED AT 1250 BTUH/1000 CFM.
KW RATING IS FOR OUTDOOR UNIT ONLY.

MATCHING INDOOR COMPONENTS

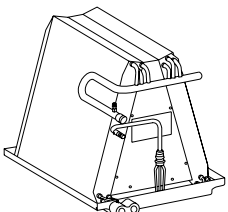
ADD-ON COILS - FOR FURNACE APPLICATIONS



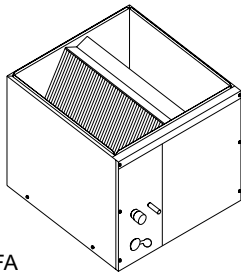
G1UA
UPFLOW



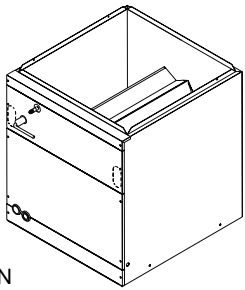
G1HD
HORIZONTAL DUCT



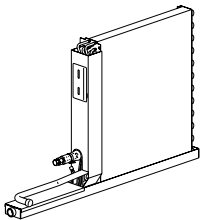
G1NA
UPFLOW



G1FA
FULL CASED



G2FD*
MULTI-POSITION
(UPFLOW, HORIZONTAL
AND DOWNFLOW)

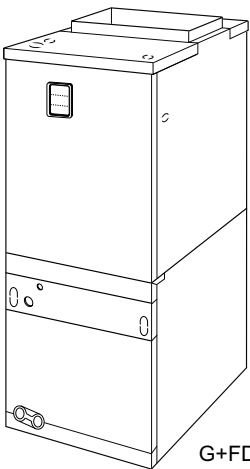


G1NF
OUTDOOR
FURNACE COIL

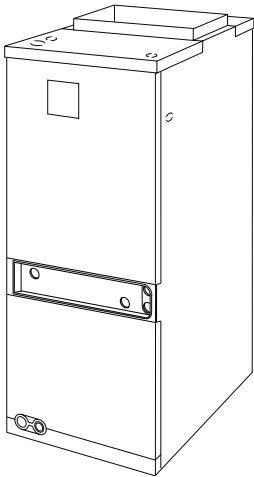
* Available with factory installed horizontal drain pan.

AIR HANDLERS - FOR NON-FURNACE APPLICATIONS

N-AH OR N-VS
MODULAR BLOWER
(UPFLOW, HORIZONTAL
AND DOWNFLOW)



G+FD
COIL



F+RC / F+FC OR
F+RC / F+FP
FAN COIL UNITS
(UPFLOW, HORIZONTAL)

NOTES

