

12 SEER HIGH EFFICIENCY SPLIT SYSTEM HEAT PUMP AIR CONDITIONING 1 1/2 THRU 5 TON

[5.28 to 17.56kw]



Description / Application

- “CPKJ” outdoor section designed for ground level or rooftop mounting.
- “AR” indoor section versatile up, horizontal or counter flow airflow designed for use with CPKJ outdoor section. The “AR” unit may be located in closet, utility room, attic, or basement.
- “AW” & “AWB” vertical wall mount designed to be installed on top of water heater or recessed in a wall in a vertical upflow position.
- “U”, “UC”, “H” & “HT” fan-less indoor coils for add-on heat pump application.

Accessories

- Standard room thermostat with 2-stage heat - 1 stage cool & emergency heat, Model HPT18-60.
- Automatic changeover room thermostat with 2-stage heat - 1 stage cool and emergency heat, Model HPT18-60.
- Outdoor thermostats, Model OT18-60.
- Emergency heat relay, Model EH18-60.
- All fuel kit, Model AFE18-60.

Standard Equipment

- Quiet operation top discharge.
- Copper tube, aluminum fin coil construction.
- Brass suction and liquid shut off valves with sweat connections.
- Totally enclosed permanently lubricated condenser motor.
- Fully charged for 15' [4.57m] of interconnecting tubing.
- Discharge line muffler.
- Low pressure control for loss of charge protection.
- Hermetically sealed compressor.
- Bi-flow liquid line filter drier.
- Suction line accumulator.
- Check-Flowrator expansion device.
- Crankcase heater (where indicated).
- Time initiate, temperature terminate defrost.
- Bottom pan rails elevating unit above slab.
- Compressor internal high pressure control.

Cabinet Construction

- Beige baked enamel finish with 500 hour salt spray approval.
- Heavy gauge / zinc clad.

Made in the USA by:
Goodman Manufacturing Company, L.P.
North Loop West Suite 400
2550 Houston, Texas 77008
www.goodmanmfg.com

COOLING AND HEATING PERFORMANCE DATA

MODEL OUTDOOR SECTION	MODEL INDOOR SECTION	TOTAL COOLING BTUH (1)	SENSIBLE COOLING BTUH	(2) BTUH @ 75°F/63°F-95°F		COOLING SEER(4)	COOLING EER (3)	HEATING BTUH 47°F	HEATING COP 47°F	HEATING BTUH 17°F	HEATING COP 17°F	HEATING HSPF	SRN/ BELS
				TOTAL	SENS.								
CPKJ18-1	AC18-XX	16400	12300	15500	11800	11.50	10.50	16000	2.80	9000	2.00	7.00	8.0
	AC24-XX	16800	12600	15800	12000	12.00	11.00	16400	3.00	9400	2.00	7.00	
	AR18-1/AW18-XX	17000	12700	16000	12200	11.00	10.00	17000	3.00	9400	2.00	7.00	
	AWB18-XX	17000	12700	16000	12200	11.00	10.00	17000	3.00	9400	2.00	7.00	
	AWB24/AW24-XX	17400	13100	16400	12600	12.00	11.00	17400	3.00	9600	2.00	7.00	
	U/UC32+EEP	18000	14200	17000	13700	12.00	11.00	18000	3.50	10000	2.20	7.30	
	HT3236/H36F+EEP	18000	14200	17000	13700	12.00	11.00	18000	3.50	10000	2.20	7.30	
	AR32-1	18000	14200	17000	13700	12.00	11.00	18000	3.50	10000	2.20	7.30	
AER24-1	18000	14200	17000	13700	13.00	12.00	18000	3.50	10000	2.20	7.50		
CPKJ24-1A	AC24-XX	21200	15900	20000	15500	11.50	10.50	20200	2.80	11800	2.00	7.00	8.2
	AC30-XX	22000	16500	20700	16000	12.00	11.00	21000	2.80	12000	2.20	7.00	
	AWB24-XX	22400	16800	21100	16400	11.50	10.50	22000	3.00	12100	2.20	7.00	
	AR24-1/AW24-XX	22400	16800	21100	16400	11.50	10.50	22000	3.00	12100	2.20	7.00	
	U/UC32+EEP	23000	18000	21700	17400	12.00	11.00	23000	3.30	13600	2.60	7.50	
	U/UC42+EEP	23000	18000	21700	17400	12.00	11.00	23000	3.30	13600	2.60	7.50	
	HT3236/H36F+EEP	23000	18000	21700	17400	12.00	11.00	23000	3.30	13600	2.60	7.50	
	AWB36-XX	23000	18000	21700	17400	12.00	11.00	23000	3.30	13600	2.60	7.50	
AR32-1/AR42-1	23000	18000	21700	17400	12.00	11.00	23000	3.30	13600	2.60	7.80		
AER24-1	23000	18000	21700	17400	13.00	12.00	23000	3.30	13600	2.60	8.00		
CPKJ30-1A	AC30-XX	27000	20200	24600	18900	11.50	10.50	26000	2.80	14000	2.20	7.00	8.2
	AC36-XX	27400	20500	25000	19100	12.00	11.00	26400	2.80	14600	2.20	7.00	
	AWB30-XX	27200	20400	24800	19100	11.30	10.50	27000	3.00	14800	2.20	7.00	
	AR30-1/AW30-XX	27200	20400	24800	20700	11.30	10.50	27000	3.00	14800	2.20	7.00	
	HT3236/U/UC32+EEP	29000	21600	27400	20700	12.00	11.00	29400	3.30	17000	2.40	7.50	
	U/UC42+EEP	29000	21600	27400	20700	12.00	11.00	29400	3.30	17000	2.40	7.50	
	HT4248/H36F+EEP	29000	21600	27400	20700	12.00	11.00	29400	3.30	17000	2.40	7.50	
	AWB36-XX	29000	21600	27400	20700	12.00	11.00	29400	3.30	17000	2.40	7.50	
	AR32-1/AR42-1	29000	21600	27400	20700	12.00	11.00	29400	3.30	17000	2.40	7.80	
	AER30-1	29000	21600	26800	21200	12.50	11.50	29400	3.30	17000	2.40	7.80	
AER36-1	30000	22300	29300	19000	13.00	12.00	30000	3.50	18000	2.40	7.80		
CPKJ36-1A	AC36-XX	32000	23000	30200	24000	11.00	10.00	31000	2.80	17000	2.00	7.00	8.2
	AWB36-XX/AR36-1	33000	23800	31150	24900	11.30	10.30	33000	3.20	19000	2.10	7.50	
	U/UC42+EEP	34000	24500	32100	23300	12.00	11.00	35000	3.50	20000	2.30	7.80	
	HT4248/H49F+EEP	34000	24500	32100	23300	12.00	11.00	35000	3.50	20000	2.30	7.80	
	AR42-1	34000	24500	32100	23300	12.00	11.00	35000	3.50	20000	2.30	7.80	
	AER36-1	35000	25900	34000	24600	13.00	12.00	35000	3.50	20000	2.30	8.00	
CPKJ42-1	AR42-1	38400	27600	36200	29300	11.30	10.30	38400	3.30	21000	2.10	7.50	8.2
	U/UC60+EEP	40000	30400	37800	29300	12.00	11.00	40000	3.50	22400	2.30	8.00	
	HT61/H61F+EEP	40000	30400	37800	29000	12.00	11.00	40000	3.50	22400	2.30	8.00	
	AR49-1	40000	30400	37800	29300	12.00	11.00	40000	3.50	22400	2.30	8.00	
	AER48-1	41000	31000	37800	29900	13.00	12.00	40000	3.50	23000	2.30	8.30	
CPKJ48-1	AR48-1	44000	32500	41500	31000	11.50	10.50	44000	3.30	24000	2.20	7.50	8.4
	AR49-1	44000	32500	41500	31000	12.00	11.00	45000	3.50	25000	2.30	8.00	
	U/UC60+EEP	44000	32500	41500	31000	12.00	11.00	45000	3.50	25000	2.30	8.00	
	HT61/H61F+EEP	44000	32500	41500	31000	12.00	11.00	45000	3.50	25000	2.30	8.00	
	AER48-1	46000	35000	43400	33600	12.50	11.50	46000	3.60	27000	2.40	8.50	
	AR61-1	46000	35000	43400	33600	12.00	11.00	46000	3.60	27000	2.40	8.00	
CPKJ60-1	AR60-1	51000	39300	48100	38000	11.30	10.30	51000	3.50	30000	2.10	7.30	8.4
	U/UC62+EEP	51000	39300	48100	38000	11.50	10.50	51000	3.30	30000	2.30	7.50	
	AR61-1	52000	40000	49100	38500	12.00	11.00	52000	3.50	31000	2.30	7.50	
	HT61/U/UC61+EEP	52000	40000	49100	38500	12.00	11.00	52000	3.50	31000	2.30	7.50	
	H61F+EEP	52000	40000	49100	38500	12.00	11.00	52000	3.50	31000	2.30	7.50	
	AER60-1	52000	40000	49100	38500	12.00	11.00	52000	3.50	31000	2.30	8.00	

XX designates electric heat quantity.

HSPF = heating seasonal performance factor.

When mix matching outdoor and indoor units, the indoor unit check-flowrator must match the outdoor unit size.

See "AR" unit for coil instructions.

EEP - Order from service dept. part No. B13707-38. Unless used with a 1992 Goodman Gas Furnace which contains the EEP cooling time delay.

(1) Certified per ARI 210/240 @ 80°F/67°F -95°F

(2) TVA Rating

(3) Energy Efficiency Ratio @ 80°F/67°F -95°F

(4) Seasonal Energy Efficiency Ratio

COOLING AND HEATING PERFORMANCE DATA [METRIC]

MODEL OUTDOOR SECTION	MODEL INDOOR SECTION	TOTAL COOLING KW (1)	SENSIBLE COOLING KW	(2) KW @ 24°C/17°C-35°C		COOLING SEER(4)	COOLING EER (3)	HEATING KW 8.3°C	HEATING COP 8.3°C	HEATING KW -8.3°C	HEATING COP -8.3°C	HEATING HSPF	SRN/ BELS
				TOTAL	SENS.								
CPKJ18-1	AC18-XX	4.8	3.6	4.5	3.4	11.50	10.50	4.7	2.80	2.6	2.00	7.00	8.0
	AC24-XX	4.9	3.7	4.6	3.5	12.00	11.00	4.8	3.00	2.7	2.00	7.00	
	AR18-1/AW18-XX	5.0	3.7	4.7	3.6	11.00	10.00	4.9	3.00	2.7	2.00	7.00	
	AWB18-XX	5.0	3.7	4.7	3.6	11.00	10.00	4.9	3.00	2.7	2.00	7.00	
	AWB24/AW24-XX	5.0	3.8	4.8	3.7	12.00	11.00	5.1	3.00	2.8	2.00	7.00	
	U/UC32+EEP	5.3	5.2	4.9	4.0	12.00	11.00	5.3	3.50	2.9	2.20	7.30	
	HT3236/H36F+EEP	5.3	5.2	4.9	4.0	12.00	11.00	5.3	3.50	2.9	2.20	7.30	
	AR32-1	5.3	5.2	4.9	4.0	12.00	11.00	5.3	3.50	2.9	2.20	7.30	
	AER24-1	5.3	5.2	4.9	4.0	13.00	12.00	5.3	3.50	2.9	2.20	7.50	
CPKJ24-1A	AC24-XX	6.2	4.6	5.8	4.5	11.50	10.50	5.9	2.80	3.4	2.00	7.00	8.2
	AC30-XX	6.4	4.8	6.0	4.6	12.00	11.00	6.1	2.80	3.5	2.20	7.00	
	AWB24-XX	6.6	4.9	6.1	4.8	11.50	10.50	6.4	3.00	3.6	2.20	7.00	
	AR24-1/AW24-XX	6.6	4.9	6.1	4.8	11.50	10.50	6.4	3.00	3.6	2.20	7.00	
	U/UC32+EEP	6.7	5.3	6.3	5.1	12.00	11.00	6.7	3.30	3.9	2.60	7.50	
	U/UC42+EEP	6.7	5.3	6.3	5.1	12.00	11.00	6.7	3.30	3.9	2.60	7.50	
	HT3236/H36F+EEP	6.7	5.3	6.3	5.1	12.00	11.00	6.7	3.30	3.9	2.60	7.50	
	AWB36-XX	6.7	5.3	6.3	5.1	12.00	11.00	6.7	3.30	3.9	2.60	7.50	
	AR32-1/AR42-1	6.7	5.3	6.3	5.1	12.00	11.00	6.7	3.30	3.9	2.60	7.80	
AER24-1	6.7	5.3	6.3	5.1	13.00	12.00	6.7	3.30	3.9	2.60	8.00		
CPKJ30-1A	AC30-XX	7.9	5.9	7.2	5.5	11.50	10.50	7.6	2.80	4.1	2.20	7.00	8.2
	AC36-XX	8.0	6.0	7.3	5.6	12.00	11.00	7.7	2.80	4.2	2.20	7.00	
	AWB30-XX	7.9	6.0	7.3	5.6	11.30	10.50	7.9	3.00	4.3	2.20	7.00	
	AR30-1/AW30-XX	7.9	6.0	7.3	6.0	11.30	10.50	7.9	3.00	4.3	2.20	7.00	
	HT3236/U/UC32+EEP	8.5	6.3	8.0	6.0	12.00	11.00	8.6	3.30	5.0	2.40	7.50	
	U/UC42+EEP	8.5	6.3	8.0	6.0	12.00	11.00	8.6	3.30	5.0	2.40	7.50	
	HT4248/H36F+EEP	8.5	6.3	8.0	6.0	12.00	11.00	8.6	3.30	5.0	2.40	7.50	
	AWB36-XX	8.5	6.3	8.0	6.0	12.00	11.00	8.6	3.30	5.0	2.40	7.50	
	AR32-1/AR42-1	8.5	6.3	8.0	6.0	12.00	11.00	8.6	3.30	5.0	2.40	7.80	
AER30-1	8.5	6.3	7.8	6.2	12.50	11.50	8.6	3.30	5.0	2.40	7.80		
AER36-1	8.8	6.5	8.6	5.6	13.00	12.00	8.8	3.50	5.3	2.40	7.80		
CPKJ36-1A	AC36-XX	9.4	6.7	8.8	7.0	11.00	10.00	9.1	2.80	5.0	2.00	7.00	8.2
	AWB36-XX/AR36-1	9.7	7.0	9.1	7.3	11.30	10.30	9.7	3.20	5.6	2.10	7.50	
	U/UC42+EEP	10.0	7.2	9.4	6.8	12.00	11.00	10.3	3.50	5.9	2.30	7.80	
	HT4248/H49F+EEP	10.0	7.2	9.4	6.8	12.00	11.00	10.3	3.50	5.9	2.30	7.80	
	AR42-1	10.0	7.2	9.4	6.8	12.00	11.00	10.3	3.50	5.9	2.30	7.80	
	AER36-1	10.3	7.6	10.0	7.2	13.00	12.00	10.3	3.50	5.9	2.30	8.00	
CPKJ42-1	AR42-1	11.3	8.1	10.6	8.6	11.30	10.30	11.3	3.30	6.1	2.10	7.50	8.2
	U/UC60+EEP	11.7	8.9	11.0	8.6	12.00	11.00	11.7	3.50	6.6	2.30	8.00	
	HT61/H61F+EEP	11.7	8.9	11.0	8.5	12.00	11.00	11.7	3.50	6.6	2.30	8.00	
	AR49-1	11.7	8.9	11.0	8.6	12.00	11.00	11.7	3.50	6.6	2.30	8.00	
	AER48-1	12.0	9.0	11.0	8.7	13.00	12.00	11.7	3.50	6.7	2.30	8.30	
CPKJ48-1	AR48-1	12.9	9.5	12.2	9.1	11.50	10.50	12.9	3.30	7.0	2.20	7.50	8.4
	AR49-1	12.9	9.5	12.2	9.1	12.00	11.00	13.2	3.50	7.3	2.30	8.00	
	U/UC60+EEP	12.9	9.5	12.2	9.1	12.00	11.00	13.2	3.50	7.3	2.30	8.00	
	HT61/H61F+EEP	12.9	9.5	12.2	9.1	12.00	11.00	13.2	3.50	7.3	2.30	8.00	
	AER48-1	13.5	10.3	12.7	9.8	12.50	11.50	13.5	3.60	7.9	2.40	8.50	
	AR61-1	13.5	10.3	12.7	9.8	12.00	11.00	13.5	3.60	7.9	2.40	8.00	
CPKJ60-1	AR60-1	14.9	11.5	14.1	11.1	11.30	10.30	14.9	3.50	8.8	2.10	7.30	8.4
	U/UC62+EEP	14.9	11.5	14.1	11.1	11.50	10.50	14.9	3.30	8.8	2.30	7.50	
	AR61-1	15.2	11.7	14.4	11.3	12.00	11.00	15.2	3.50	9.1	2.30	7.50	
	HT61/U/UC61+EEP	15.2	11.7	14.4	11.3	12.00	11.00	15.2	3.50	9.1	2.30	7.50	
	H61F+EEP	15.2	11.7	14.4	11.3	12.00	11.00	15.2	3.50	9.1	2.30	7.50	
	AER60-1	15.2	11.7	14.4	11.3	12.00	11.00	15.2	3.50	9.1	2.30	8.00	

XX designates electric heat quantity.

HSPF = heating seasonal performance factor.

When mix matching outdoor and indoor units, the indoor unit check-flowrator must match the outdoor unit size.

See "A" unit for coil instructions.

EEP - Order from service dept. part No. B13707-38. Unless used with a 1992 Goodman Gas Furnace which contains the EEP cooling time delay.

- (5) Certified per ARI 210/240 @ 80°F/67°F -95°F
- (6) TVA Rating
- (7) Energy Efficiency Ratio @ 80°F/67°F -95°F
- (8) Seasonal Energy Efficiency Ratio

PHYSICAL DATA

MODEL	LIQUID CONNECTION	SUCTION CONNECTION	TYPE	APPROX. SHIPPING WT.
CPKJ18-1	3/8" [9.5mm]	3/4" [19mm]	Sweat	127 [57.6kg]
CPKJ24-1	3/8" [9.5mm]	3/4" [19mm]	Sweat	137 [62.1kg]
CPKJ30-1A	3/8" [9.5mm]	3/4" [19mm]	Sweat	142 [64.4kg]
CPKJ36-1A	3/8" [9.5mm]	7/8" [22.2mm]	Sweat	152 [68.9kg]
CPKJ42-1	3/8" [9.5mm]	7/8" [22.2mm]	Sweat	162 [73.5kg]
CPKJ48-1	3/8" [9.5mm]	7/8" [22.2mm]	Sweat	178 [80.7kg]
CPKJ60-1	3/8" [9.5mm]	7/8" [22.2mm]	Sweat	182 [82.6kg]

NOTE: SPECIFICATIONS AND PERFORMANCE DATA LISTED HEREIN ARE SUBJECT TO CHANGE WITHOUT NOTICE.

ELECTRICAL DATA

	+MINIMUM	*MAXIMUM

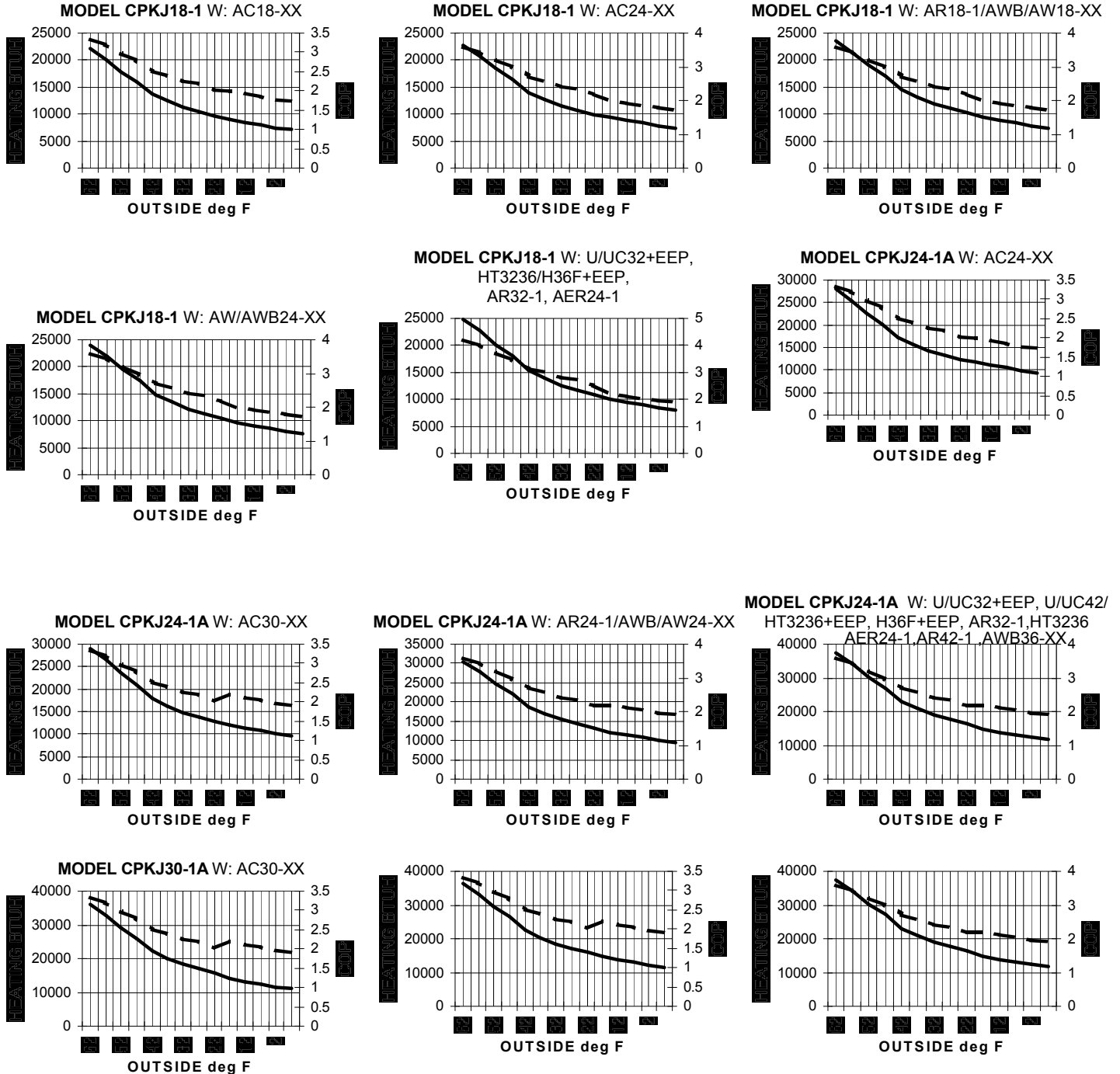
MODEL	VOLTS	PH	HZ	CIRCUIT AMPS	OVERCURRENT PROTECTION	MINIMUM VOLTS	MAXIMUM VOLTS	COMPRESSOR		COND. FAN	
								RLA	LRA	FLA	HP
CPKJ18-1	208/230	1	60	10.8	15	197	253	7.9	48.0	0.9	1/6
†CPKJ24-1A	208/230	1	60	15.3	20	197	253	11.5	60.0	0.9	1/6
CPKJ30-1A	208/230	1	60	19.3	30	197	253	14.7	74.0	0.9	1/6
CPKJ36-1A	208/230	1	60	18.5	30	197	253	14.1	79.0	0.9	1/6
†CPKJ42-1	208/230	1	60	25.8	40	197	253	19.2	87.0	1.8	1/4
†CPKJ48-1	208/230	1	60	29.0	50	197	253	21.8	105.0	1.8	1/4
†CPKJ60-1	208/230	1	60	31.5	50	197	253	23.7	129.0	1.8	1/4

† With Crankcase Heat.

* May use fuses or HACR type Circuit Breakers of the same size as noted.

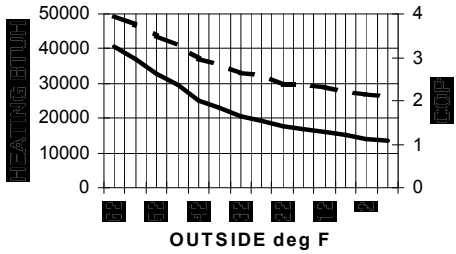
+ Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

HEATING PERFORMANCE EXPANDED RATINGS @70°F INDOOR AMBIENT

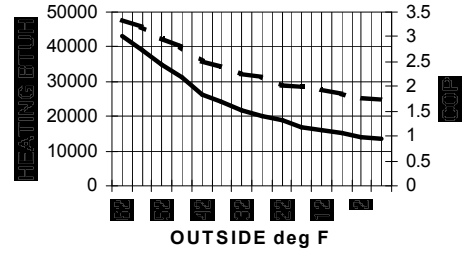
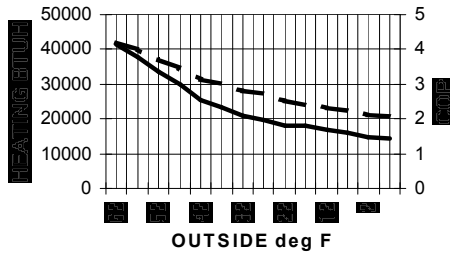


HEATING PERFORMANCE EXPANDED RATINGS @70°F INDOOR AMBIENT

MODEL CPKJ30-1A W: U/UC32+EEP, U/UC42/HT3236+EEP, H36F+EEP, AR32-1, AR42-1, AER30-1,AWB36-XX

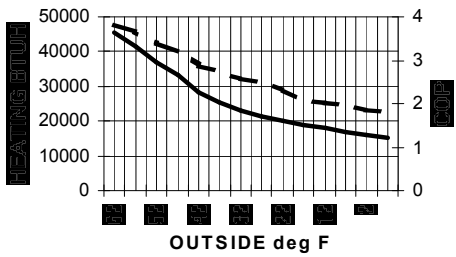


MODEL CPKJ30-1/1A W: AER36-1

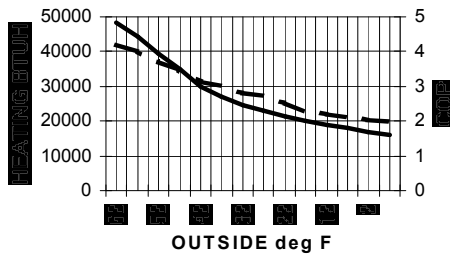


MODEL CPKJ36-1A W: AC36-XX

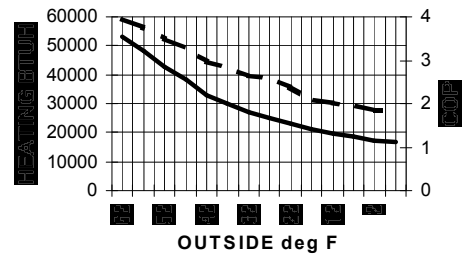
MODEL CPKJ36-1A W: AR36-1/AWB36-XX



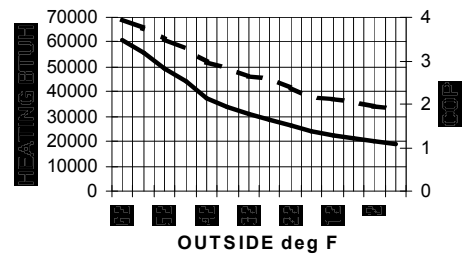
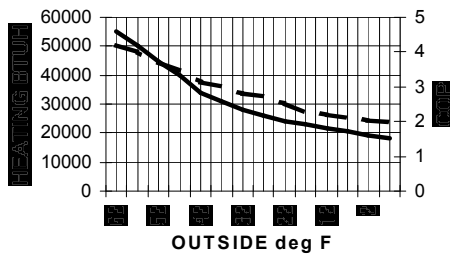
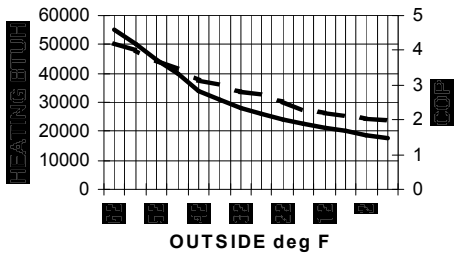
MODEL CPKJ36-1A W: U/UC42+EEP, H49F+EEP, AR42-1, AER36-1



MODEL CPKJ42-1 W: AR42-1



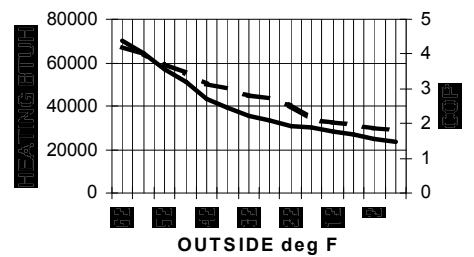
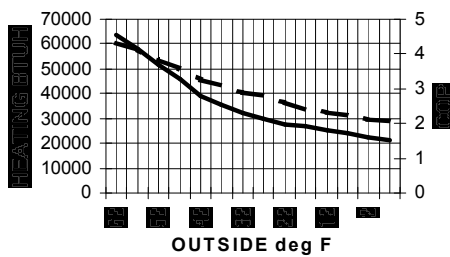
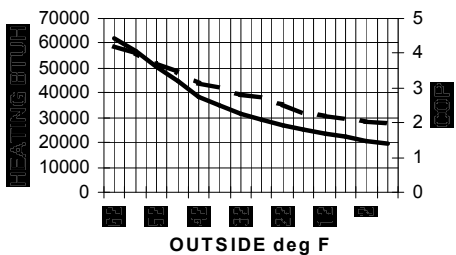
MODEL CPKJ42-1 W: U/UC60+EEP, HT61/H61F+EEP, AR49-1



MODEL CPKJ48-1 W: AR48-1

MODEL CPKJ42-1 W: AER48-1

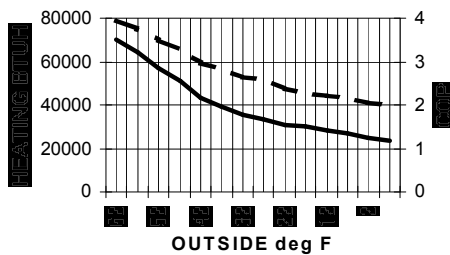
MODEL CPKJ48-1 W: AR49-1, U/UC60+EEP, H61F+EEP



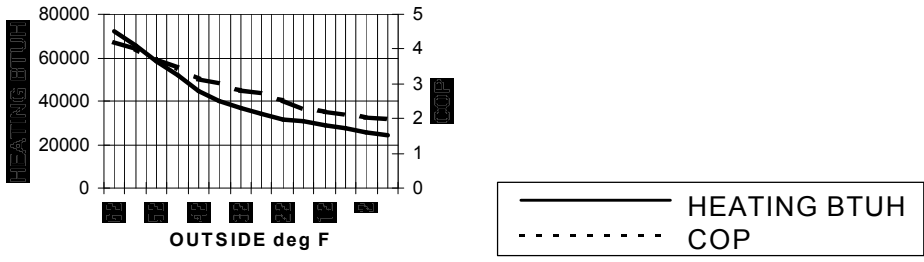
MODEL CPKJ60-1 W: AR60-1

MODEL CPKJ48-1 W: AER48-1, AR61-1

MODEL CPKJ60-1 W: U/UC62+EEP



MODEL CPKJ60-1 W: AR61-1, U/UC61+EEP, HT61/H61F+EEP, AER60-1



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DIMENSIONAL DATA CPKJ18-60 MODELS

