

TECHNICAL SUPPORT MANUAL

Split System Air Conditioner

N4A3

Safety Labeling and Signal Words

DANGER, WARNING, CAUTION, and NOTE

The signal words **DANGER**, **WARNING**, **CAUTION**, and **NOTE** are used to identify levels of hazard seriousness. The signal word **DANGER** is only used on product labels to signify an immediate hazard. The signal words **WARNING**, **CAUTION**, and **NOTE** will be used on product labels and throughout this manual and other manuals that may apply to the product.

DANGER – Immediate hazards which **will** result in severe personal injury or death.

WARNING – Hazards or unsafe practices which **could** result in severe personal injury or death.

CAUTION – Hazards or unsafe practices which **may** result in minor personal injury or product or property damage.

NOTE – Used to highlight suggestions which **will** result in enhanced installation, reliability, or operation.

Signal Words in Manuals

The signal word **WARNING** is used throughout this manual in the following manner:



The signal word **CAUTION** is used throughout this manual in the following manner:



Signal Words on Product Labeling

Signal words are used in combination with colors and/or pictures on product labels.

TABLE OF CONTENTS

Wiring Diagram	2
Charging Chart	3
Tech Labels (Expanded Data)	4 – 10
Condenser Only Data	11 – 14
Cooling Multiplying Factors	15 – 19
Model Number Identification	20

MODELS

- N4A318*KB300
- N4A324*KB200
- N4A330*KC200
- N4A336*KB200
- N4A342*KA300
- N4A348*KB200
- N4A360*KC300

* = A for standard inlet grille,
G for inlet grille with 3/8" (10mm) tight-wire spacing



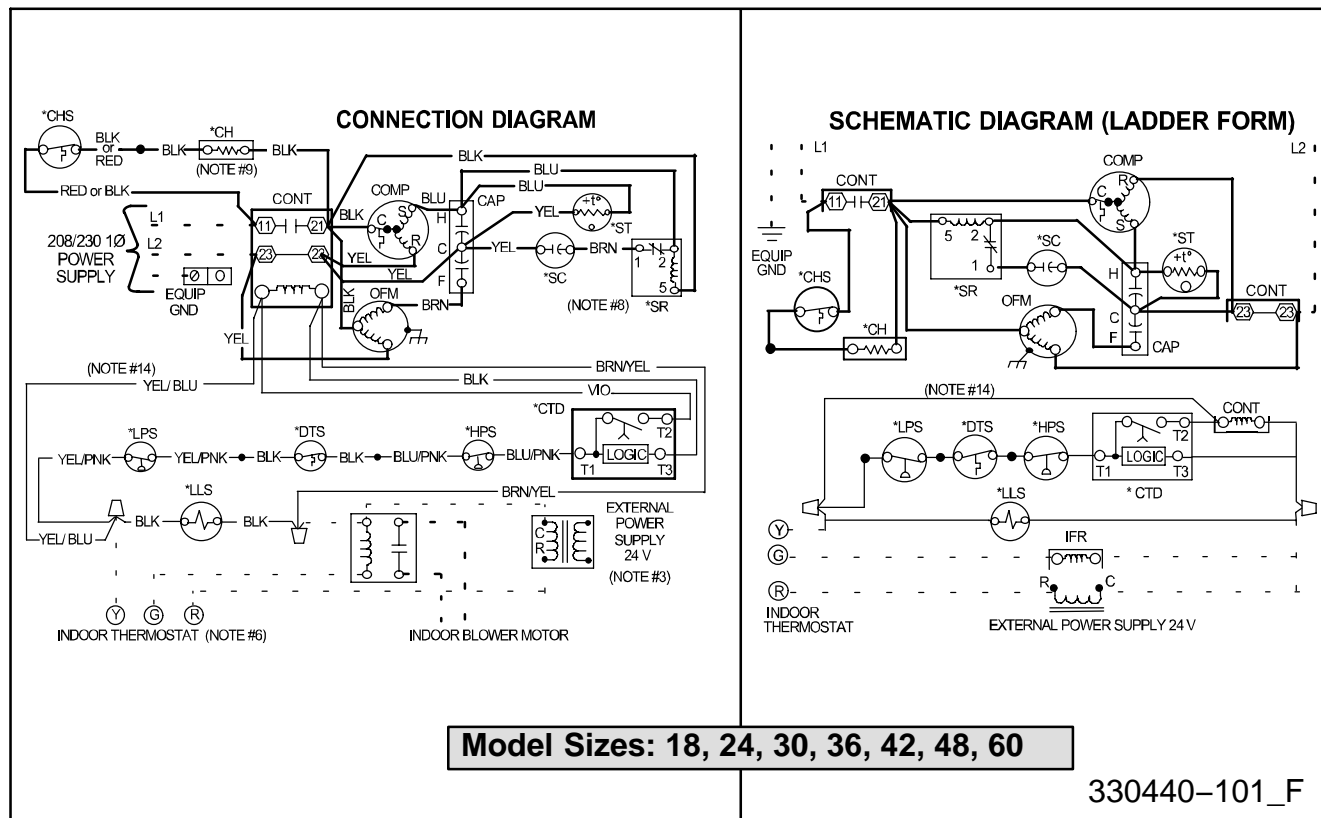
DEATH, PERSONAL INJURY, AND/OR PROPERTY DAMAGE HAZARD

Failure to carefully read and follow this warning could result in equipment malfunction, property damage, personal injury and/or death.

Installation or repairs made by unqualified persons could result in equipment malfunction, property damage, personal injury and/or death.

The information contained in this manual is intended for use by a qualified service technician familiar with safety procedures and equipped with the proper tools and test instruments.

Installation must conform with local building codes and with the National Electrical Code NFPA70 current edition or Canadian Electrical Code Part 1 CSA C.22.1.

**-LEGEND-**

	FACTORY POWER WIRING
	FACTORY CONTROL WIRING
	FIELD CONTROL WIRING
	FIELD POWER WIRING
	CONDUCTOR ON CIRCUIT BOARD
	COMPONENT CONNECTION
	FIELD SPLICE
	JUNCTION
	PLUG RECEPTACLE
CA	COMFORT ALERT
CAP	CAPACITOR (DUAL RUN)
CB	CIRCUIT BOARD
*CH	CRANKCASE HEATER
*CHS	CRANKCASE HEATER SWITCH
COMP	COMPRESSOR
CONT	CONTACTOR
DFT	DEFROST THERMOSTAT
DR	DEFROST RELAY AND CIRCUITRY
*DTS	DISCHARGE TEMP SWITCH
FSC	FAN SPEED CONTROL
*HPS	HIGH PRESSURE SWITCH
*LLS	LIQ LINE SOLENOID VALVE
*LPS	LOW PRESSURE SWITCH
OFM	OUTDOOR FAN MOTOR
PL1	COMPRESSOR PLUG
PL2	OUTDOOR FAN PLUG
R1	RECEPTACLE
RVS	REVERSING VALVE SOLENOID
*SC	START CAPICATOR
*SR	START RELAY
*ST	START THERMISTOR

* MAY BE FACTORY INSTALLED

1. Symbols are electrical representation only.
2. Compressor and fan motor furnished with inherent thermal protection.
3. To be wired in accordance with National Electric N.E.C. and local codes.
4. N.E.C. class 2, 24 V circuit, min. 40 VA required, 60 VA on units installed with LLS.
5. Use copper conductors only. Use conductors suitable for at least 75°C (167°F).
6. Connection for typical cooling only thermostat. For other arrangements see installation instructions.
7. If indoor section has a transformer with a grounded secondary, connect the grounded side to the BRN/YEL lead.
8. When start capacitor and relay are installed, start thermistor (PTC) is not used.
9. CH not used on all units.
10. If any of the original wire, as supplied, must be replaced, use the same or equivalent wire.
11. Check all electrical connections inside control box for tightness.
12. Do not attempt to operate unit until service valves have been opened.
13. Do not rapid cycle compressor. Compressor must be off 3 minutes to allow pressures to equalize between high and low side before starting.
14. Wire not present if HPS, LPS or CTD are used.

R-410A CHARGING CHART												
Measured Liquid Pressure (psig)	Rating Plate (required) Subcooling Temperature °F (°C)											
	°F 6	(°C) 3	°F 8	(°C) 4	°F 10	(°C) 6	°F 12	(°C) 7	F 14	(°C) 8	F 16	(°C) 9
	R-410A Required Liquid Line Temperature °F (°C)											
251	78	26	76	24	74	23	72	22	70	21	68	20
259	80	27	78	26	76	24	74	23	72	22	70	21
266	82	28	80	27	78	26	76	24	74	23	72	22
274	84	29	82	28	80	27	78	26	76	24	74	23
283	86	30	84	29	82	28	80	27	78	26	76	24
291	88	31	86	30	84	29	82	28	80	27	78	26
299	90	32	88	31	86	30	84	29	82	28	80	27
308	92	33	90	32	88	31	86	30	84	29	82	28
317	94	34	92	33	90	32	88	31	86	30	84	29
326	96	36	94	34	92	33	90	32	88	31	86	30
335	98	37	96	36	94	34	92	33	90	32	88	31
345	100	38	98	37	96	36	94	34	92	33	90	32
364	104	40	102	39	100	38	98	37	96	36	94	34
374	106	41	104	40	102	39	100	38	98	37	96	36
384	108	42	106	41	104	40	102	39	100	38	98	37
395	110	43	108	42	106	41	104	40	102	39	100	38
406	112	44	110	43	108	42	106	41	104	40	102	39
416	114	46	112	44	110	43	108	42	106	41	104	40
427	116	47	114	46	112	44	110	43	108	42	106	41
439	118	48	116	47	114	46	112	44	110	43	108	42
450	120	49	118	48	116	47	114	46	112	44	110	43
462	122	50	120	49	118	48	116	47	114	46	112	44
474	124	51	122	50	120	49	118	48	116	47	114	46

COOLING		18 Size Outdoor With ED*4X18B** Indoor Cooling																								
		Outdoor Ambient Temperature – Degrees F, Dry Bulb																								
		75					85					95					105					115				
		Entering Indoor Temperature – Degrees F, Wet Bulb																								
CFM		72	67	63††	62	57	72	67	63††	62	57	72	67	63††	62	57	72	67	63††	62	57	72	67	63††	62	57
525	MBh†	20.29	18.68	17.49	17.19	16.69	19.40	17.84	16.69	16.42	16.06	18.45	16.95	15.84	15.60	15.39	17.52	16.05	14.96	14.77	14.69	16.49	15.07	14.01	13.93	13.93
	S/T‡	0.50	0.67	0.69	0.86	1.00	0.50	0.68	0.70	0.88	1.00	0.51	0.69	0.72	0.90	1.00	0.52	0.71	0.74	0.92	1.00	0.53	0.73	0.76	0.92	1.00
	AMPS*	5.38	5.39	5.40	5.40	5.41	6.02	6.04	6.05	6.05	6.05	6.73	6.75	6.76	6.76	6.76	7.52	7.54	7.55	7.55	7.55	8.39	8.40	8.41	8.41	8.41
	HI PR	286	282	279	279	277	329	325	322	321	321	376	372	369	368	368	429	424	421	421	421	485	482	479	479	479
	LO PR	155	142	132	130	126	158	144	134	132	129	160	146	136	135	133	162	149	139	137	137	165	151	141	141	141
600	MBh†	20.65	18.98	17.80	17.56	17.35	19.66	18.12	16.97	16.78	16.69	18.69	17.20	16.09	15.96	15.98	17.73	16.28	15.19	15.24	15.24	16.67	15.27	14.22	14.43	14.44
	S/T‡	0.51	0.70	0.72	0.90	1.00	0.52	0.71	0.74	0.92	1.00	0.53	0.73	0.75	1.00	1.00	0.54	0.75	0.77	1.00	1.00	0.55	0.77	0.80	1.00	1.00
	AMPS*	5.49	5.51	5.52	5.52	5.52	6.14	6.15	6.16	6.16	6.16	6.85	6.86	6.87	6.87	6.87	7.64	7.65	7.66	7.66	7.66	8.50	8.52	8.53	8.52	8.52
	HI PR	287	283	280	280	279	330	326	323	323	322	377	373	370	370	370	430	425	422	422	422	486	482	480	480	480
	LO PR	159	145	135	134	132	161	147	137	136	136	163	150	139	139	139	165	152	142	143	143	168	154	144	147	147
675	MBh†	20.88	19.19	18.02	17.91	17.89	19.84	18.31	17.18	17.19	17.19	18.84	17.37	16.28	16.44	16.44	17.87	16.44	15.36	15.68	15.68	16.79	15.41	14.37	14.84	14.84
	S/T‡	0.53	0.73	0.75	0.99	1.00	0.54	0.74	0.77	1.00	1.00	0.55	0.76	0.79	1.00	1.00	0.56	0.79	0.81	1.00	1.00	0.57	0.81	0.84	1.00	1.00
	AMPS*	5.61	5.62	5.63	5.63	5.63	6.25	6.27	6.28	6.28	6.28	6.96	6.98	6.99	6.98	6.98	7.75	7.77	7.78	7.77	7.77	8.62	8.63	8.64	8.64	8.64
	HI PR	288	284	281	281	281	331	327	324	324	324	378	374	371	371	371	430	426	423	424	424	487	483	480	482	482
	LO PR	162	148	138	138	138	164	150	140	141	141	166	152	142	144	144	168	154	144	148	148	170	157	146	151	151

† Total capacities are net (I.D. blower heat subtracted) system capacities based on 25' line set.

If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

†† At TVA rating indoor condition (75 °F db, 63 °F wb), all other indoor air temperatures are at 80 °F db

If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

^ System amps are total of indoor and outdoor amps.

‡ Chart data is for 80° F indoor dry bulb. For indoor db temperatures other than 80° F, measure Indoor db and Indoor CFM, and plug these into the formula below. Measure outdoor db and indoor wet bulb, apply these to the chart above, find MBh and S/T, and plug these into the formula below. (Note: if indoor db is the only thing changing, total capacity, MBh, stays the same.)

$$\text{Sensible Capacity at Indoor db LOWER than } 80^\circ \text{ F} = (\text{MBh} \times \text{S/T}) - \left(\frac{(\text{80} - \text{Indoor db}) \times 835 \times \text{Indoor CFM}}{1000} \right)$$

$$\text{Sensible Capacity at Indoor db HIGHER than } 80^\circ \text{ F} = (\text{MBh} \times \text{S/T}) + \left(\frac{(\text{Indoor db} - 80) \times 835 \times \text{Indoor CFM}}{1000} \right)$$

COOLING		24 Size Outdoor With ED*4X24B** Indoor Cooling																								
		Outdoor Ambient Temperature – Degrees F, Dry Bulb																								
		75					85					95					105					115				
		Entering Indoor Temperature – Degrees F, Wet Bulb																								
CFM		72	67	63††	62	57	72	67	63††	62	57	72	67	63††	62	57	72	67	63††	62	57	72	67	63††	62	57
700	MBh†	27.06	24.87	23.36	22.98	22.41	25.82	23.82	22.35	22.00	21.61	24.64	22.70	21.28	20.97	20.75	23.44	21.55	20.16	19.92	19.85	22.11	20.30	18.96	18.88	18.88
	S/T‡	0.51	0.68	0.71	0.88	1.00	0.51	0.69	0.72	0.90	1.00	0.52	0.71	0.73	0.92	1.00	0.53	0.73	0.75	0.94	1.00	0.54	0.75	0.77	1.00	1.00
	AMPS*	7.18	7.15	7.14	7.13	7.13	8.02	8.00	7.98	7.98	7.98	8.95	8.93	8.92	8.92	8.91	9.99	9.97	9.97	9.96	9.96	11.13	11.12	11.13	11.12	11.12
	HI PR	291	286	283	283	281	335	330	327	326	325	383	378	375	374	374	436	431	428	427	427	493	489	486	486	486
	LO PR	156	142	132	130	127	158	144	134	132	130	160	146	136	135	133	162	148	138	137	137	164	151	141	141	141
800	MBh†	27.50	25.24	23.74	23.44	23.25	26.14	24.15	22.70	22.46	22.41	24.93	23.00	21.59	21.49	21.49	23.69	21.83	20.45	20.55	20.55	22.33	20.54	19.21	19.52	19.52
	S/T‡	0.52	0.71	0.74	0.92	1.00	0.53	0.73	0.75	0.94	1.00	0.54	0.75	0.77	1.00	1.00	0.55	0.76	0.79	1.00	1.00	0.56	0.79	0.81	1.00	1.00
	AMPS*	7.35	7.32	7.30	7.30	7.29	8.18	8.16	8.14	8.14	8.14	9.11	9.09	9.08	9.08	9.08	10.15	10.13	10.13	10.12	10.12	11.29	11.28	11.29	11.28	11.28
	HI PR	292	287	284	284	283	336	331	328	328	327	384	379	376	376	376	437	432	429	429	429	494	489	487	487	487
	LO PR	159	146	135	134	133	161	148	137	136	136	163	149	139	139	139	165	151	141	143	143	167	154	143	146	146
900	MBh†	27.78	25.51	24.01	23.92	23.93	26.38	24.39	22.95	23.04	23.04	25.12	23.21	21.82	22.08	22.08	23.86	22.02	20.65	21.10	21.10	22.46	20.71	19.39	20.03	20.03
	S/T‡	0.54	0.75	0.77	1.00	1.00	0.55	0.76	0.79	1.00	1.00	0.56	0.78	0.81	1.00	1.00	0.57	0.80	0.83	1.00	1.00	0.59	0.83	0.85	1.00	1.00
	AMPS*	7.51	7.48	7.46	7.46	7.46	8.34	8.32	8.30	8.30	8.30	9.27	9.25	9.24	9.24	9.24	10.31	10.29	10.28	10.28	10.28	11.44	11.44	11.44	11.44	11.44
	HI PR	293	288	285	285	285	337	332	329	329	329	385	380	377	377	377	438	433	429	431	431	495	490	487	489	489
	LO PR	162	148	138	138	138	164	150	140	141	141	166	152	142	144	144	168	154	144	148	148	170	156	146	151	151

† Total capacities are net (I.D. blower heat subtracted) system capacities based on 25' line set.
If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

†† At TVA rating indoor condition (75 °F db, 63 °F wb), all other indoor air temperatures are at 80 °F db
If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

^ System amps are total of indoor and outdoor amps.

‡ Chart data is for 80° F indoor dry bulb. For indoor db temperatures other than 80° F, measure Indoor db and Indoor CFM, and plug these into the formula below. Measure outdoor db and indoor wet bulb, apply these to the chart above, find MBh and S/T, and plug these into the formula below.
(Note: if indoor db is the only thing changing, total capacity, MBh, stays the same.)

$$\text{Sensible Capacity at Indoor db LOWER than } 80^\circ \text{ F} = (\text{MBh} \times \text{S/T}) - \left(\frac{(\text{80} - \text{Indoor db}) \times 835 \times \text{Indoor CFM}}{1000} \right)$$

$$\text{Sensible Capacity at Indoor db HIGHER than } 80^\circ \text{ F} = (\text{MBh} \times \text{S/T}) + \left(\frac{(\text{Indoor db} - 80) \times 835 \times \text{Indoor CFM}}{1000} \right)$$

COOLING		30 Size Outdoor With ED*4X30B** Indoor Cooling																								
		Outdoor Ambient Temperature – Degrees F, Dry Bulb																								
		75					85					95					105					115				
		Entering Indoor Temperature – Degrees F, Wet Bulb																								
CFM		72	67	63††	62	57	72	67	63††	62	57	72	67	63††	62	57	72	67	63††	62	57	72	67	63††	62	57
875	MBh†	32.02	29.54	27.75	27.35	26.98	30.68	28.28	26.53	26.19	25.99	29.25	26.92	25.22	24.96	24.93	27.76	25.50	23.85	23.81	23.81	26.11	23.94	22.35	22.57	22.58
	S/T‡	0.51	0.69	0.72	0.89	1.00	0.52	0.70	0.73	0.91	1.00	0.53	0.72	0.75	0.99	1.00	0.53	0.74	0.76	1.00	1.00	0.55	0.76	0.79	1.00	1.00
	AMPS*	8.82	8.80	8.79	8.79	8.79	9.72	9.71	9.70	9.69	9.69	10.72	10.70	10.70	10.69	10.69	11.83	11.81	11.80	11.79	11.79	13.02	13.00	12.99	12.99	12.99
	HI PR	297	292	289	288	287	342	337	333	332	332	391	385	381	381	381	444	438	435	435	435	501	496	493	493	493
	LO PR	158	144	134	132	130	160	146	136	134	133	162	148	138	137	137	164	150	140	140	140	166	152	142	144	144
1000	MBh†	32.38	29.89	28.12	27.91	27.89	30.97	28.59	26.86	26.85	26.85	29.51	27.20	25.52	25.73	25.73	27.98	25.75	24.11	24.55	24.56	26.29	24.16	22.58	23.26	23.26
	S/T‡	0.53	0.73	0.75	0.99	1.00	0.54	0.74	0.77	1.00	1.00	0.55	0.76	0.78	1.00	1.00	0.56	0.78	0.81	1.00	1.00	0.57	0.81	0.83	1.00	1.00
	AMPS*	9.06	9.04	9.04	9.03	9.03	9.97	9.95	9.94	9.94	9.94	10.97	10.95	10.94	10.94	10.94	12.07	12.05	12.04	12.04	12.04	13.27	13.25	13.24	13.24	13.24
	HI PR	298	293	290	290	290	343	338	334	334	334	392	387	383	383	383	445	440	436	437	437	502	497	494	495	495
	LO PR	161	147	137	137	136	163	149	139	139	139	165	151	141	143	143	167	153	143	146	146	169	155	145	150	150
1125	MBh†	32.60	30.13	28.36	28.60	28.60	31.16	28.80	27.09	27.52	27.52	29.67	27.39	25.72	26.35	26.35	28.11	25.92	24.30	25.13	25.13	26.38	24.30	22.74	23.78	23.78
	S/T‡	0.55	0.76	0.78	1.00	1.00	0.56	0.78	0.80	1.00	1.00	0.57	0.80	0.82	1.00	1.00	0.58	0.83	0.85	1.00	1.00	0.60	0.85	0.88	1.00	1.00
	AMPS*	9.30	9.29	9.28	9.28	9.28	10.21	10.20	10.19	10.19	10.19	11.21	11.19	11.19	11.19	11.19	12.32	12.30	12.29	12.29	12.29	13.51	13.49	13.48	13.49	13.49
	HI PR	299	294	291	291	291	344	339	335	336	336	393	388	384	385	385	446	441	437	439	439	503	498	495	497	497
	LO PR	163	150	140	142	142	165	152	141	144	144	167	153	143	148	148	169	155	145	151	151	171	158	147	155	155

† Total capacities are net (I.D. blower heat subtracted) system capacities based on 25' line set.
 If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

†† At TVA rating indoor condition (75 °F db, 63 °F wb), all other indoor air temperatures are at 80 °F db
 If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

^ System amps are total of indoor and outdoor amps.

‡ Chart data is for 80° F indoor dry bulb. For indoor db temperatures other than 80° F, measure Indoor db and Indoor CFM, and plug these into the formula below. Measure outdoor db and indoor wet bulb, apply these to the chart above, find MBh and S/T, and plug these into the formula below.
 (Note: if indoor db is the only thing changing, total capacity, MBh, stays the same.)

$$\text{Sensible Capacity at Indoor db LOWER than } 80^\circ \text{ F} = (\text{MBh} \times \text{S/T}) - \left(\frac{(\text{80} - \text{Indoor db}) \times 835 \times \text{Indoor CFM}}{1000} \right)$$

$$\text{Sensible Capacity at Indoor db HIGHER than } 80^\circ \text{ F} = (\text{MBh} \times \text{S/T}) + \left(\frac{(\text{Indoor db} - 80) \times 835 \times \text{Indoor CFM}}{1000} \right)$$

COOLING		36 Size Outdoor With ED*4X36F** Indoor Cooling																								
		Outdoor Ambient Temperature – Degrees F, Dry Bulb																								
		75					85					95					105					115				
		Entering Indoor Temperature – Degrees F, Wet Bulb																								
CFM		72	67	62	57	72	67	62	57	72	67	62	57	72	67	62	57	72	67	62	57					
1050	MBh†	40.22	36.61	33.42	32.55	38.50	35.00	31.97	31.38	36.66	33.29	30.45	30.12	34.69	31.46	28.86	28.77	32.56	29.49	27.29	27.29					
	S/T‡	0.52	0.70	0.91	1.00	0.53	0.72	0.93	1.00	0.54	0.73	0.95	1.00	0.55	0.75	0.98	1.00	0.56	0.77	1.00	1.00					
	AMPS*	10.73	10.62	10.54	10.51	11.79	11.67	11.59	11.57	12.98	12.86	12.78	12.77	14.34	14.23	14.16	14.16	15.91	15.83	15.78	15.78					
	HI PR	275	272	270	269	320	317	314	314	369	365	362	362	421	418	415	415	478	474	472	472					
	LO PR	155	142	131	127	157	144	133	130	159	146	135	134	162	149	138	138	165	151	142	142					
1200	MBh†	40.90	37.25	34.19	33.87	39.11	35.57	32.73	32.61	37.20	33.80	31.24	31.27	35.17	31.91	29.83	29.83	32.96	29.88	28.26	28.26					
	S/T‡	0.54	0.73	0.95	1.00	0.54	0.75	0.97	1.00	0.55	0.77	1.00	1.00	0.57	0.79	1.00	1.00	0.58	0.81	1.00	1.00					
	AMPS*	11.00	10.88	10.80	10.79	12.05	11.93	11.85	11.85	13.24	13.12	13.04	13.04	14.60	14.49	14.43	14.43	16.17	16.08	16.04	16.04					
	HI PR	276	273	271	270	321	318	315	315	370	366	363	364	422	419	416	416	478	475	473	473					
	LO PR	158	145	134	133	160	147	137	136	162	149	139	139	165	151	143	143	167	154	147	147					
1350	MBh†	41.40	37.72	34.90	34.96	39.55	36.00	33.63	33.64	37.60	34.19	32.22	32.23	35.50	32.26	30.70	30.70	33.24	30.19	29.05	29.05					
	S/T‡	0.55	0.76	1.00	1.00	0.56	0.78	1.00	1.00	0.57	0.80	1.00	1.00	0.58	0.83	1.00	1.00	0.60	0.86	1.00	1.00					
	AMPS*	11.26	11.14	11.06	11.06	12.31	12.19	12.12	12.12	13.50	13.38	13.32	13.31	14.85	14.74	14.69	14.69	16.42	16.33	16.30	16.30					
	HI PR	276	274	271	271	321	318	316	316	370	367	365	365	423	419	417	417	479	476	475	475					
	LO PR	161	148	138	138	163	150	141	141	165	152	144	144	167	154	148	148	169	156	151	151					

† Total capacities are net (I.D. blower heat subtracted) system capacities based on 25' line set.
If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

†† At TVA rating indoor condition (75 °F db, 63 °F wb), all other indoor air temperatures are at 80 °F db
If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

^ System amps are total of indoor and outdoor amps.

‡ Chart data is for 80° F indoor dry bulb. For indoor db temperatures other than 80° F, measure Indoor db and Indoor CFM, and plug these into the formula below. Measure outdoor db and indoor wet bulb, apply these to the chart above, find MBh and S/T, and plug these into the formula below.
(Note: if indoor db is the only thing changing, total capacity, MBh, stays the same.)

$$\text{Sensible Capacity at Indoor db LOWER than } 80^\circ \text{ F} = (\text{MBh} \times \text{S/T}) - \left(\frac{(\text{80} - \text{Indoor db}) \times 835 \times \text{Indoor CFM}}{1000} \right)$$

$$\text{Sensible Capacity at Indoor db HIGHER than } 80^\circ \text{ F} = (\text{MBh} \times \text{S/T}) + \left(\frac{(\text{Indoor db} - 80) \times 835 \times \text{Indoor CFM}}{1000} \right)$$

COOLING		42 Size Outdoor With ED*4X42J** Indoor Cooling																			
		Outdoor Ambient Temperature – Degrees F, Dry Bulb																			
		75				85				95				105				115			
		Entering Indoor Temperature – Degrees F, Wet Bulb																			
CFM		72	67	62	57	72	67	62	57	72	67	62	57	72	67	62	57	72	67	62	57
1225	MBh†	48.54	44.52	40.89	39.81	46.41	42.55	39.11	38.36	44.15	40.47	37.25	36.82	41.78	38.27	35.32	35.18	39.23	35.92	33.39	33.40
	S/T‡	0.53	0.71	0.91	1.00	0.53	0.72	0.93	1.00	0.54	0.74	0.95	1.00	0.55	0.75	0.98	1.00	0.56	0.78	1.00	1.00
	AMPS*	14.46	14.38	14.31	14.29	16.01	15.93	15.86	15.85	17.72	17.64	17.58	17.58	19.62	19.55	19.50	19.50	21.69	21.64	21.61	21.61
	HI PR	279	275	271	270	323	318	314	314	370	365	361	361	421	416	412	412	475	471	467	467
	LO PR	152	139	127	124	154	141	130	127	157	143	132	131	159	146	135	134	162	148	138	138
1400	MBh†	49.25	45.21	41.75	41.34	47.04	43.17	39.95	39.79	44.69	41.00	38.08	38.14	42.24	38.74	36.38	36.39	39.60	36.32	34.49	34.49
	S/T‡	0.54	0.74	0.96	1.00	0.55	0.75	0.98	1.00	0.56	0.77	1.00	1.00	0.57	0.79	1.00	1.00	0.58	0.82	1.00	1.00
	AMPS*	14.80	14.71	14.64	14.64	16.34	16.26	16.20	16.19	18.05	17.97	17.92	17.92	19.95	19.88	19.84	19.84	22.02	21.97	21.94	21.94
	HI PR	280	276	272	272	324	319	316	315	371	366	363	363	422	417	414	414	476	472	469	469
	LO PR	155	142	131	130	157	144	133	133	160	146	136	136	162	148	140	140	164	151	144	144
1575	MBh†	49.78	45.74	42.59	42.57	47.50	43.63	40.93	40.94	45.08	41.41	39.20	39.20	42.57	39.10	37.35	37.35	39.86	36.63	35.35	35.35
	S/T‡	0.56	0.77	0.99	1.00	0.57	0.79	1.00	1.00	0.58	0.81	1.00	1.00	0.59	0.83	1.00	1.00	0.61	0.86	1.00	1.00
	AMPS*	15.14	15.05	14.98	14.98	16.68	16.59	16.54	16.54	18.38	18.30	18.26	18.26	20.28	20.21	20.18	20.18	22.35	22.29	22.28	22.28
	HI PR	281	277	273	273	325	320	317	317	372	367	364	364	423	418	416	416	477	472	471	471
	LO PR	158	145	135	135	160	147	138	138	162	149	141	141	164	151	144	144	167	153	148	148

- † Total capacities are net (I.D. blower heat subtracted) system capacities based on 25' line set.
If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.
- †† At TVA rating indoor condition (75 °F db, 63 °F wb), all other indoor air temperatures are at 80 °F db
If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.
- ^ System amps are total of indoor and outdoor amps.
- ‡ Chart data is for 80° F indoor dry bulb. For indoor db temperatures other than 80° F, measure Indoor db and Indoor CFM, and plug these into the formula below. Measure outdoor db and indoor wet bulb, apply these to the chart above, find MBh and S/T, and plug these into the formula below.
(Note: if indoor db is the only thing changing, total capacity, MBh, stays the same.)

Sensible Capacity at Indoor db LOWER than 80 °F = (MBh x S/T) - $\left(\frac{(80 - \text{Indoor db}) \times 835 \times \text{Indoor CFM}}{1000} \right)$

Sensible Capacity at Indoor db HIGHER than 80 °F = (MBh x S/T) + $\left(\frac{(\text{Indoor db} - 80) \times 835 \times \text{Indoor CFM}}{1000} \right)$

COOLING		48 Size Outdoor With ED*4X48J** Indoor Cooling																								
		Outdoor Ambient Temperature – Degrees F, Dry Bulb																								
		75					85					95					105					115				
		Entering Indoor Temperature – Degrees F, Wet Bulb																								
CFM		72	67	62	57	72	67	62	57	72	67	62	57	72	67	62	57	72	67	62	57					
1400	MBh†	54.48	49.80	45.58	44.55	52.18	47.63	43.61	42.94	49.73	45.34	41.55	41.23	47.13	42.93	39.45	39.42	44.34	40.34	37.47	37.47					
	S/T‡	0.48	0.65	0.85	1.00	0.49	0.67	0.87	1.00	0.50	0.68	0.89	1.00	0.51	0.70	0.99	1.00	0.52	0.72	1.00	1.00					
	AMPS*	14.71	14.60	14.50	14.48	16.25	16.13	16.04	16.03	17.94	17.83	17.74	17.74	19.82	19.71	19.63	19.63	21.88	21.78	21.72	21.72					
	HI PR	296	292	288	287	342	338	334	333	392	387	383	383	447	442	438	438	507	502	499	499					
	LO PR	154	141	129	126	156	143	131	129	158	145	134	133	161	147	136	136	163	150	140	140					
1600	MBh†	55.34	50.62	46.58	46.27	52.95	48.38	44.61	44.56	50.42	46.00	42.74	42.75	47.73	43.51	40.82	40.82	44.84	40.84	38.75	38.75					
	S/T‡	0.50	0.68	0.89	1.00	0.51	0.70	0.99	1.00	0.52	0.71	1.00	1.00	0.53	0.73	1.00	1.00	0.54	0.76	1.00	1.00					
	AMPS*	15.07	14.95	14.86	14.85	16.60	16.49	16.40	16.40	18.30	18.18	18.11	18.11	20.17	20.06	20.00	20.00	22.23	22.13	22.08	22.08					
	HI PR	297	293	289	289	343	339	335	335	393	388	385	385	448	443	440	440	508	503	501	501					
	LO PR	157	144	133	132	159	146	135	135	161	148	138	138	163	150	142	142	166	152	145	145					
1800	MBh†	55.96	51.21	47.66	47.67	53.51	48.91	45.87	45.88	50.90	46.48	43.97	43.97	48.15	43.93	41.94	41.95	45.18	41.20	39.77	39.77					
	S/T‡	0.52	0.71	1.00	1.00	0.52	0.73	1.00	1.00	0.53	0.75	1.00	1.00	0.55	0.77	1.00	1.00	0.56	0.80	1.00	1.00					
	AMPS*	15.43	15.30	15.22	15.22	16.96	16.84	16.76	16.76	18.65	18.53	18.47	18.47	20.53	20.41	20.36	20.36	22.58	22.47	22.44	22.44					
	HI PR	298	294	291	291	344	339	336	336	394	389	387	387	449	444	442	442	509	504	502	502					
	LO PR	160	147	137	137	162	148	140	140	164	150	143	143	166	152	146	146	168	155	150	150					

† Total capacities are net (I.D. blower heat subtracted) system capacities based on 25' line set.
If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

†† At TVA rating indoor condition (75 °F db, 63 °F wb), all other indoor air temperatures are at 80 °F db
If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

^ System amps are total of indoor and outdoor amps.

‡ Chart data is for 80° F indoor dry bulb. For indoor db temperatures other than 80° F, measure Indoor db and Indoor CFM, and plug these into the formula below. Measure outdoor db and indoor wet bulb, apply these to the chart above, find MBh and S/T, and plug these into the formula below.
(Note: if indoor db is the only thing changing, total capacity, MBh, stays the same.)

$$\text{Sensible Capacity at Indoor db LOWER than } 80^\circ \text{ F} = (\text{MBh} \times \text{S/T}) - \left(\frac{(\text{80} - \text{Indoor db}) \times 835 \times \text{Indoor CFM}}{1000} \right)$$

$$\text{Sensible Capacity at Indoor db HIGHER than } 80^\circ \text{ F} = (\text{MBh} \times \text{S/T}) + \left(\frac{(\text{Indoor db} - 80) \times 835 \times \text{Indoor CFM}}{1000} \right)$$

COOLING		60 Size Outdoor With ED*4X60L** Indoor Cooling																								
		Outdoor Ambient Temperature – Degrees F, Dry Bulb																								
		75					85					95					105					115				
		Entering Indoor Temperature – Degrees F, Wet Bulb																								
CFM		72	67	63††	62	57	72	67	63††	62	57	72	67	63††	62	57	72	67	63††	62	57	72	67	63††	62	57
1750	MBh†	68.71	63.16	59.15	58.14	56.63	65.76	60.43	56.59	55.65	54.60	62.59	57.50	53.84	53.01	52.42	59.21	54.39	50.92	50.27	50.09	55.54	51.03	47.79	47.55	47.55
	S/T‡	0.51	0.68	0.71	0.88	1.00	0.51	0.69	0.72	0.90	1.00	0.52	0.71	0.73	0.92	1.00	0.53	0.73	0.75	0.94	1.00	0.54	0.75	0.77	1.00	1.00
	AMPS*	18.99	18.66	18.43	18.37	18.29	20.92	20.59	20.37	20.31	20.25	23.05	22.73	22.50	22.45	22.42	25.39	25.07	24.86	24.82	24.81	27.93	27.63	27.44	27.42	27.42
	HI PR	303	299	295	294	293	351	346	342	341	340	402	396	392	391	391	457	451	447	446	446	516	510	506	506	506
	LO PR	157	143	133	131	128	159	145	135	133	131	161	148	137	136	134	164	150	140	138	138	166	152	142	142	142
2000	MBh†	69.71	64.15	60.14	59.33	58.75	66.67	61.31	57.47	56.80	56.59	63.38	58.27	54.61	54.23	54.26	59.88	55.05	51.60	51.77	51.77	56.07	51.58	48.36	49.05	49.05
	S/T‡	0.52	0.71	0.74	0.92	1.00	0.53	0.73	0.75	0.94	1.00	0.54	0.74	0.77	1.00	1.00	0.55	0.77	0.79	1.00	1.00	0.56	0.79	0.81	1.00	1.00
	AMPS*	19.47	19.14	18.90	18.86	18.83	21.40	21.07	20.84	20.80	20.79	23.53	23.20	22.97	22.95	22.95	25.86	25.54	25.32	25.33	25.33	28.39	28.09	27.89	27.93	27.93
	HI PR	304	300	296	296	295	352	347	343	343	342	403	398	393	393	393	459	452	448	448	448	518	511	507	508	508
	LO PR	161	147	137	135	134	162	149	138	137	137	165	151	140	140	140	167	153	142	144	144	169	155	145	148	148
2250	MBh†	70.44	64.85	60.84	60.44	60.47	67.31	61.94	58.11	58.18	58.19	63.93	58.82	55.17	55.72	55.73	60.33	55.52	52.08	53.10	53.10	56.41	51.96	48.77	50.23	50.23
	S/T‡	0.54	0.74	0.77	1.00	1.00	0.55	0.76	0.78	1.00	1.00	0.56	0.78	0.80	1.00	1.00	0.57	0.80	0.83	1.00	1.00	0.59	0.83	0.85	1.00	1.00
	AMPS*	19.94	19.60	19.36	19.35	19.35	21.86	21.53	21.29	21.30	21.30	23.99	23.66	23.42	23.46	23.46	26.31	25.99	25.77	25.84	25.84	28.83	28.54	28.34	28.43	28.43
	HI PR	305	301	297	297	297	353	348	344	344	344	405	399	395	395	395	460	454	449	450	450	519	513	508	510	510
	LO PR	163	150	139	139	139	165	151	141	142	142	167	153	143	145	145	169	155	145	149	149	172	158	147	152	152

- † Total capacities are net (I.D. blower heat subtracted) system capacities based on 25' line set.
If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.
- †† At TVA rating indoor condition (75 °F db, 63 °F wb), all other indoor air temperatures are at 80 °F db
If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.
- ^ System amps are total of indoor and outdoor amps.
- ‡ Chart data is for 80° F indoor dry bulb. For indoor db temperatures other than 80° F, measure Indoor db and Indoor CFM, and plug these into the formula below. Measure outdoor db and indoor wet bulb, apply these to the chart above, find MBh and S/T, and plug these into the formula below.
(Note: if indoor db is the only thing changing, total capacity, MBh, stays the same.)

Sensible Capacity at Indoor db LOWER than 80 °F = (MBh x S/T) - $\left(\frac{(80 - \text{Indoor db}) \times 835 \times \text{Indoor CFM}}{1000} \right)$

Sensible Capacity at Indoor db HIGHER than 80 °F = (MBh x S/T) + $\left(\frac{(\text{Indoor db} - 80) \times 835 \times \text{Indoor CFM}}{1000} \right)$

Data for Condenser Only (Cooling)									
Saturated Suction Temperature °F		Condenser Entering Air Temperature °F							
		55	65	75	85	95	105	115	125
N4A318									
30	TCG	16.10	15.20	14.20	13.30	12.30	11.30	10.20	9.10
	SDT	70.80	80.40	89.90	99.50	109.10	118.80	128.60	138.50
	KW	0.83	0.95	1.09	1.24	1.40	1.57	1.76	1.95
35	TCG	17.70	16.70	15.70	14.70	13.70	12.60	11.50	10.30
	SDT	71.90	81.40	90.90	100.40	109.90	119.60	129.40	139.10
	KW	0.83	0.95	1.09	1.24	1.40	1.58	1.77	1.97
40	TCG	19.50	18.40	17.40	16.20	15.10	14.00	12.80	11.50
	SDT	73.00	82.50	91.90	101.30	110.80	120.40	130.10	139.70
	KW	0.83	0.95	1.09	1.23	1.40	1.58	1.77	1.98
45	TCG	21.30	20.20	19.00	17.90	16.70	15.40	14.20	12.80
	SDT	74.20	83.60	93.00	102.30	111.70	121.20	130.70	140.30
	KW	0.83	0.95	1.08	1.23	1.40	1.58	1.78	1.99
50	TCG	23.30	22.00	20.80	19.50	18.20	16.90	15.60	14.20
	SDT	75.40	84.80	94.10	103.40	112.60	122.00	131.40	140.90
	KW	0.82	0.95	1.08	1.23	1.40	1.58	1.78	1.99
55	TCG	25.20	23.90	22.50	21.20	19.80	18.50	17.00	15.50
	SDT	76.70	86.00	95.20	104.40	113.60	122.90	132.20	141.50
	KW	0.82	0.94	1.08	1.23	1.39	1.58	1.78	1.99
N4A324									
30	TCG	21.30	20.10	18.90	17.70	16.50	15.20	14.00	12.60
	SDT	73.00	82.40	91.80	101.20	110.60	120.20	129.80	139.40
	KW	1.06	1.21	1.37	1.56	1.77	1.99	2.24	2.51
35	TCG	23.40	22.10	20.90	19.60	18.20	16.90	15.50	14.10
	SDT	74.40	83.60	93.00	102.30	111.70	121.10	130.60	140.20
	KW	1.06	1.21	1.38	1.57	1.77	2.00	2.25	2.52
40	TCG	25.60	24.20	22.90	21.50	20.00	18.60	17.10	15.60
	SDT	75.80	85.00	94.20	103.50	112.70	122.10	131.50	140.90
	KW	1.07	1.22	1.39	1.58	1.78	2.01	2.26	2.53
45	TCG	27.90	26.40	24.90	23.40	21.90	20.40	18.80	17.10
	SDT	77.30	86.30	95.50	104.70	113.80	123.10	132.30	141.60
	KW	1.08	1.23	1.40	1.58	1.79	2.02	2.27	2.54
50	TCG	30.20	28.60	27.00	25.40	23.70	22.10	20.40	18.60
	SDT	78.80	87.80	96.80	105.90	114.90	124.10	133.30	142.40
	KW	1.09	1.24	1.40	1.59	1.80	2.03	2.28	2.55
55	TCG	32.60	30.80	29.10	27.30	25.60	23.90	22.10	20.20
	SDT	80.30	89.20	98.20	107.10	116.10	125.20	134.20	143.10
	KW	1.09	1.25	1.41	1.60	1.81	2.03	2.28	2.55

TCG = Gross Cooling Capacity (x 1000 BTU/hr)
 SDT = Saturated Temperature Leaving Compressor
 kW = Outdoor Unit Kilowatts

Data for Condenser Only (Cooling)									
Saturated Suction Temperature °F		Condenser Entering Air Temperature °F							
		55	65	75	85	95	105	115	125
N4A330									
30	TCG	25.40	24.00	22.60	21.10	19.60	18.00	16.40	14.60
	SDT	74.40	83.60	92.90	102.10	111.40	120.80	130.20	139.60
	KW	1.35	1.52	1.70	1.91	2.13	2.37	2.63	2.89
35	TCG	28.00	26.50	24.90	23.40	21.70	20.00	18.30	16.40
	SDT	75.90	85.00	94.20	103.40	112.60	121.90	131.20	140.50
	KW	1.35	1.52	1.71	1.92	2.15	2.39	2.65	2.92
40	TCG	30.70	29.10	27.40	25.70	24.00	22.20	20.30	18.40
	SDT	77.40	86.50	95.60	104.70	113.80	123.00	132.20	141.40
	KW	1.35	1.53	1.72	1.93	2.15	2.40	2.67	2.95
45	TCG	33.50	31.80	30.00	28.20	26.30	24.40	22.40	20.30
	SDT	79.00	88.00	97.00	106.10	115.10	124.20	133.30	142.30
	KW	1.36	1.53	1.72	1.93	2.16	2.42	2.69	2.97
50	TCG	36.50	34.60	32.70	30.70	28.70	26.70	24.60	22.30
	SDT	80.70	89.70	98.50	107.50	116.40	125.40	134.30	143.20
	KW	1.36	1.54	1.73	1.94	2.17	2.43	2.70	2.99
55	TCG	39.50	37.40	35.30	33.20	31.10	29.00	26.70	24.30
	SDT	82.40	91.30	100.10	108.90	117.80	126.60	135.40	144.20
	KW	1.37	1.54	1.74	1.95	2.18	2.44	2.71	3.00
N4A336									
30	TCG	30.30	28.80	27.20	25.50	23.80	22.00	20.00	18.00
	SDT	73.20	82.20	91.40	100.60	109.90	119.10	128.40	137.80
	KW	1.65	1.85	2.07	2.30	2.57	2.88	3.25	3.68
35	TCG	33.50	31.80	30.10	28.30	26.40	24.40	22.30	20.10
	SDT	74.80	83.80	92.80	102.00	111.10	120.30	129.50	138.70
	KW	1.66	1.87	2.08	2.32	2.59	2.90	3.26	3.69
40	TCG	37.00	35.10	33.20	31.20	29.20	27.00	24.80	22.40
	SDT	76.60	85.50	94.40	103.40	112.40	121.50	130.60	139.70
	KW	1.68	1.89	2.10	2.34	2.61	2.92	3.28	3.70
45	TCG	40.70	38.60	36.50	34.30	32.10	29.80	27.40	24.80
	SDT	78.60	87.20	96.00	104.90	113.80	122.80	131.80	140.80
	KW	1.70	1.91	2.13	2.37	2.63	2.94	3.30	3.72
50	TCG	44.60	42.30	40.00	37.70	35.30	32.80	30.20	27.40
	SDT	80.50	89.10	97.80	106.50	115.30	124.20	133.00	141.90
	KW	1.73	1.94	2.16	2.40	2.66	2.97	3.32	3.73
55	TCG	48.80	46.30	43.80	41.30	38.70	36.00	33.20	30.20
	SDT	82.60	91.10	99.60	108.20	116.90	125.60	134.30	143.00
	KW	1.77	1.97	2.19	2.43	2.70	3.00	3.35	3.76

TCG = Gross Cooling Capacity (x 1000 BTU/hr)

SDT = Saturated Temperature Leaving Compressor

kW = Outdoor Unit Kilowatts

Data for Condenser Only (Cooling)									
Saturated Suction Temperature °F		Condenser Entering Air Temperature °F							
		55	65	75	85	95	105	115	125
N4A342									
30	TCG	38.00	36.00	33.90	31.90	29.70	27.60	25.30	22.90
	SDT	73.20	82.30	91.40	100.60	109.80	119.10	128.40	137.70
	KW	1.95	2.20	2.48	2.80	3.14	3.53	3.95	4.41
35	TCG	41.90	39.70	37.40	35.10	32.80	30.50	28.00	25.50
	SDT	74.80	83.70	92.80	101.90	111.00	120.20	129.40	138.60
	KW	1.97	2.22	2.50	2.81	3.16	3.54	3.97	4.43
40	TCG	46.00	43.60	41.10	38.70	36.20	33.60	30.90	28.10
	SDT	76.40	85.20	94.20	103.20	112.20	121.30	130.40	139.50
	KW	1.98	2.23	2.52	2.83	3.18	3.56	3.98	4.44
45	TCG	50.30	47.70	45.10	42.40	39.60	36.80	33.90	30.90
	SDT	78.10	86.90	95.70	104.60	113.50	122.50	131.40	140.40
	KW	2.01	2.26	2.54	2.85	3.19	3.58	4.00	4.45
50	TCG	54.90	52.10	49.20	46.20	43.20	40.20	37.00	33.60
	SDT	80.00	88.60	97.20	106.00	114.80	123.70	132.50	141.30
	KW	2.03	2.28	2.56	2.87	3.21	3.60	4.01	4.47
55	TCG	59.70	56.60	53.40	50.20	46.90	43.50	40.10	36.40
	SDT	81.90	90.30	98.90	107.50	116.20	124.90	133.60	142.20
	KW	2.06	2.30	2.58	2.89	3.23	3.62	4.03	4.48
N4A348									
30	TCG	41.10	38.90	36.70	34.40	32.10	29.70	27.20	24.50
	SDT	73.80	83.00	92.30	101.60	111.00	120.40	129.70	139.10
	KW	2.19	2.46	2.76	3.10	3.47	3.87	4.30	4.76
35	TCG	45.20	42.80	40.50	38.00	35.50	32.90	30.20	27.40
	SDT	75.30	84.40	93.70	102.90	112.20	121.50	130.80	140.00
	KW	2.22	2.49	2.79	3.13	3.50	3.90	4.34	4.81
40	TCG	49.60	47.10	44.50	41.90	39.20	36.40	33.50	30.40
	SDT	76.90	86.00	95.10	104.30	113.40	122.60	131.80	141.00
	KW	2.24	2.51	2.82	3.15	3.53	3.93	4.38	4.85
45	TCG	54.30	51.60	48.80	46.00	43.10	40.10	36.90	33.60
	SDT	78.50	87.50	96.60	105.70	114.70	123.80	132.90	142.00
	KW	2.27	2.54	2.85	3.19	3.56	3.97	4.41	4.89
50	TCG	59.30	56.40	53.40	50.30	47.10	43.90	40.50	36.90
	SDT	80.20	89.20	98.10	107.10	116.10	125.10	134.10	143.00
	KW	2.30	2.58	2.88	3.22	3.59	4.00	4.45	4.92
55	TCG	64.60	61.40	58.10	54.80	51.40	47.90	44.20	40.30
	SDT	82.10	91.00	99.80	108.70	117.50	126.40	135.20	144.00
	KW	2.34	2.61	2.92	3.25	3.63	4.04	4.48	4.96

TCG = Gross Cooling Capacity (x 1000 BTU/hr)
 SDT = Saturated Temperature Leaving Compressor
 kW = Outdoor Unit Kilowatts

Data for Condenser Only (Cooling)									
Saturated Suction Temperature °F		Condenser Entering Air Temperature °F							
		55	65	75	85	95	105	115	125
N4A360									
30	TCG	54.90	51.90	49.00	46.00	42.90	39.80	36.50	33.10
	SDT	77.60	86.40	95.30	104.20	113.20	122.20	131.20	140.20
	KW	2.73	3.07	3.45	3.88	4.34	4.85	5.41	6.01
35	TCG	60.30	57.10	53.90	50.70	47.30	43.90	40.30	36.50
	SDT	79.50	88.20	97.00	105.80	114.70	123.60	132.50	141.30
	KW	2.79	3.13	3.51	3.94	4.40	4.92	5.48	6.08
40	TCG	66.00	62.60	59.10	55.50	51.90	48.20	44.30	40.10
	SDT	81.60	90.20	98.80	107.50	116.30	125.00	133.80	142.50
	KW	2.86	3.20	3.58	4.00	4.47	4.98	5.54	6.15
45	TCG	72.10	68.30	64.50	60.70	56.70	52.60	48.40	43.80
	SDT	83.80	92.20	100.70	109.30	117.90	126.50	135.10	143.60
	KW	2.93	3.27	3.65	4.08	4.54	5.06	5.61	6.21
50	TCG	78.50	74.40	70.20	66.00	61.60	57.20	52.50	47.50
	SDT	86.10	94.40	102.70	111.20	119.60	128.10	136.50	144.80
	KW	3.01	3.35	3.73	4.15	4.62	5.13	5.68	6.27
55	TCG	85.10	80.60	76.10	71.40	66.70	61.80	56.70	51.20
	SDT	88.60	96.60	104.80	113.10	121.40	129.70	137.90	146.00
	KW	3.09	3.44	3.81	4.24	4.70	5.21	5.75	6.34

TCG = Gross Cooling Capacity (x 1000 BTU/hr)

SDT = Saturated Temperature Leaving Compressor

kW = Outdoor Unit Kilowatts

COOLING Multiplying Factors for other Indoor Combinations

Indoor Model	Furnace Model	Capac. (MBh)	Power (AMPS)	Indoor Model	Furnace Model	Capac. (MBh)	Power (AMPS)	Indoor Model	Furnace Model	Capac. (MBh)	Power (AMPS)
H2A318											
>ED*4X18B**		1.00	1.00	ED*4X24F**		1.00	1.00	FEA4X24**A*		1.05	0.93
ED*4X18B**	*8MPV050	1.05	0.95	EHD4X24A**	*8MPV050	1.00	0.89	FEM4X18****		1.00	0.91
ED*4X18B**	MV08B15**B*	1.00	0.89	EHD4X24A**	*9MPV050	1.00	0.89	FEM4X24****		1.00	0.89
ED*4X24B**	*8MPV050	1.07	0.96	EHD4X24A**	*9MPV075	1.00	0.91	FS(M,U)4X18****		1.00	1.00
ED*4X24B**	MV08B15**B*	1.00	0.89	EHD4X24A**	*9MVX040	1.08	0.98	FS(M,U)4X24****		1.05	1.05
ED*4X24B**		1.00	1.00	EHD4X24A**	*9MVX060	1.08	0.97	FSA4X18**A*		1.00	1.00
ED*4X24F**	*9MPV050	1.07	0.96	EHD4X24A**	MV08B15**B*	1.00	0.89	FSA4X24**A*		1.00	1.00
ED*4X24F**	*9MPV075	1.08	0.96	EHD4X24A**		1.00	1.00	FVM4X24****		1.00	0.89
ED*4X24F**	*9MVX040	1.08	0.97	EMA4X24D**		1.00	1.00				
ED*4X24F**	*9MVX060	1.08	0.97	FEA4X18**A*		1.05	0.95				
H2A324											
>ED*4X24B**		1.00	1.00	EHD4X24A**	*8MPV075	1.00	0.94	EHD4X30A**	*9MVX040	1.02	0.96
ED*4X24B**	*8MPV050	1.00	0.96	EHD4X24A**	*8MPV100	1.00	0.92	EHD4X30A**	*9MVX060	1.03	0.94
ED*4X24B**	MV08B15**B*	1.00	0.90	EHD4X24A**	*8MPV125	1.00	0.92	EHD4X30A**	*9MVX080	1.04	0.96
ED*4X24F**	*8MPV075	1.00	0.92	EHD4X24A**	*9MPV050	1.00	0.94	EHD4X30A**	*9MVX100	1.03	0.93
ED*4X24F**	*9MPV050	1.00	0.94	EHD4X24A**	*9MPV075	1.00	0.94	EHD4X30A**	MV08B15**B*	1.00	0.90
ED*4X24F**	*9MPV075	1.00	0.94	EHD4X24A**	*9MPV100	1.00	0.96	EHD4X30A**	MV12F19**B*	1.00	0.90
ED*4X24F**	*9MVX040	1.01	0.95	EHD4X24A**	*9MPV125	1.00	0.92	EHD4X30A**		1.00	1.00
ED*4X24F**	*9MVX060	1.02	0.96	EHD4X24A**	*9MVX040	1.01	0.95	EHD4X36A**	*8MPV075	1.03	0.93
ED*4X24F**	MV12F19**B*	1.00	0.90	EHD4X24A**	*9MVX060	1.02	0.96	EHD4X36A**	*9MVX080	1.06	0.96
ED*4X24F**		1.00	1.00	EHD4X24A**	*9MVX080	1.03	0.94	EMA4X24D**		1.00	1.00
ED*4X30B**	*8MPV050	1.00	0.94	EHD4X24A**	*9MVX100	1.03	0.94	FEA4X24**A*		1.01	0.95
ED*4X30B**	MV08B15**B*	1.00	0.90	EHD4X24A**	MV08B15**B*	1.00	0.90	FEA4X30**A*		1.02	0.96
ED*4X30B**		1.00	1.00	EHD4X24A**	MV12F19**B*	1.00	0.90	FEM4X24****		1.00	0.94
ED*4X30F**	*8MPV075	1.00	0.92	EHD4X24A**		1.00	1.00	FEM4X30****		1.00	0.92
ED*4X30F**	*9MPV050	1.00	0.92	EHD4X30A**	*8MPV050	1.00	0.94	FS(M,U)4X24****		0.99	0.99

> Indicates Tested Indoor Model

- continued on next page -

COOLING Multiplying Factors for other Indoor Combinations (continued)

Indoor Model	Furnace Model	Capac. (MBh)	Power (AMPS)	Indoor Model	Furnace Model	Capac. (MBh)	Power (AMPS)	Indoor Model	Furnace Model	Capac. (MBh)	Power (AMPS)
ED*4X30F**	*9MPV075	1.00	0.94	EHD4X30A**	*8MPV075	1.00	0.92	FS(M,U)4X30****		1.00	1.00
ED*4X30F**	*9MVX040	1.02	0.93	EHD4X30A**	*8MPV100	1.00	0.90	FSA4X24**A*		0.98	0.99
ED*4X30F**	*9MVX060	1.03	0.94	EHD4X30A**	*8MPV125	1.00	0.90	FSA4X30**A*		1.00	1.01
ED*4X30F**	MV12F19**B*	1.00	0.90	EHD4X30A**	*9MPV050	1.00	0.94	FVM4X24****		0.98	0.90
ED*4X30F**		1.00	1.00	EHD4X30A**	*9MPV075	1.00	0.94	FVM4X36****		1.00	0.90
ED*4X36F**	*8MPV075	1.03	0.93	EHD4X30A**	*9MPV100	1.00	0.92				
EHD4X24A**	*8MPV050	1.00	0.96	EHD4X30A**	*9MPV125	1.00	0.92				
H2A330											
>ED*4X30B**		1.00	1.00	ED*4X36J**	*9MVX080	1.03	0.95	EHD4X36A**	*9MPV075	1.00	0.94
ED*4X30B**	*8MPV050	1.00	0.98	ED*4X36J**		1.00	1.00	EHD4X36A**	*9MPV100	1.00	0.92
ED*4X30B**	MV08B15**B*	1.00	0.90	ED*4X42J**	*9MVX080	1.02	0.92	EHD4X36A**	*9MPV125	1.00	0.90
ED*4X30F**	*8MPV075	1.00	0.92	EHD4X30A**	*8MPV050	1.00	0.98	EHD4X36A**	*9MVX040	1.01	0.97
ED*4X30F**	*9MPV050	1.00	0.96	EHD4X30A**	*8MPV075	1.00	0.94	EHD4X36A**	*9MVX060	1.01	0.95
ED*4X30F**	*9MPV075	1.00	0.96	EHD4X30A**	*8MPV100	1.00	0.92	EHD4X36A**	*9MVX080	1.03	0.95
ED*4X30F**	*9MVX040	1.01	0.97	EHD4X30A**	*8MPV125	1.00	0.92	EHD4X36A**	*9MVX100	1.04	0.93
ED*4X30F**	*9MVX060	1.01	0.98	EHD4X30A**	*9MPV050	1.00	0.96	EHD4X36A**	MV08B15**B*	1.00	0.90
ED*4X30F**	MV12F19**B*	1.00	0.89	EHD4X30A**	*9MPV075	1.00	0.96	EHD4X36A**	MV12F19**B*	1.00	0.89
ED*4X30F**		1.00	1.00	EHD4X30A**	*9MPV100	1.00	0.92	EHD4X36A**		1.00	1.00
ED*4X36B**	*8MPV050	1.00	0.98	EHD4X30A**	*9MPV125	1.00	0.92	EHD4X42A**	*9MVX080	1.02	0.92
ED*4X36B**	MV08B15**B*	1.00	0.90	EHD4X30A**	*9MVX040	1.01	0.97	EMA4X36D**		1.00	1.00
ED*4X36B**		1.00	1.00	EHD4X30A**	*9MVX060	1.01	0.98	FEA4X30**A*		1.01	0.94
ED*4X36F**	*8MPV075	1.00	0.92	EHD4X30A**	*9MVX080	1.02	0.94	FEA4X36**A*		1.02	0.96
ED*4X36F**	*9MPV050	1.00	0.96	EHD4X30A**	*9MVX100	1.01	0.94	FEM4X30****		1.00	0.94
ED*4X36F**	*9MPV075	1.00	0.94	EHD4X30A**	MV08B15**B*	1.00	0.90	FEM4X36****		1.00	0.94
ED*4X36F**	*9MVX040	1.01	0.97	EHD4X30A**	MV12F19**B*	1.00	0.90	FS(M,U)4X30****		0.99	0.99
ED*4X36F**	*9MVX060	1.01	0.95	EHD4X30A**		1.00	1.00	FSA4X36**A*		1.00	1.00
ED*4X36F**	MV12F19**B*	1.00	0.89	EHD4X36A**	*8MPV050	1.00	0.98	FSM4X36****		1.00	1.00
ED*4X36F**		1.00	1.00	EHD4X36A**	*8MPV075	1.00	0.92	FVM4X24****		0.99	0.91

> Indicates Tested Indoor Model

- continued on next page -

COOLING Multiplying Factors for other Indoor Combinations (continued)

Indoor Model	Furnace Model	Capac. (MBh)	Power (AMPS)	Indoor Model	Furnace Model	Capac. (MBh)	Power (AMPS)	Indoor Model	Furnace Model	Capac. (MBh)	Power (AMPS)
ED*4X36J**	*8MPV100	1.00	0.90	EHD4X36A**	*8MPV100	1.00	0.90	FVM4X36****		1.00	0.89
ED*4X36J**	*8MPV125	1.00	0.90	EHD4X36A**	*8MPV125	1.00	0.90	FVM4X48****		1.00	0.89
ED*4X36J**	*9MPV100	1.00	0.92	EHD4X36A**	*9MPV050	1.00	0.94				
H2A336											
>ED*4X36F**		1.00	1.00	ED*4X42J**	MV16J22**B*	1.01	0.91	EHD4X42A**	*8MPV125	1.01	0.92
ED*4X36B**	MV08B15**B*	0.97	0.90	ED*4X42J**		1.01	1.00	EHD4X42A**	*9MPV050	1.01	0.98
ED*4X36B**		0.96	0.96	ED*4X42L**	*9MPV125	1.02	0.95	EHD4X42A**	*9MPV075	1.01	0.95
ED*4X36F**	*8MPV075	0.99	0.94	ED*4X42L**	*9MVX100	1.01	0.92	EHD4X42A**	*9MPV100	1.01	0.94
ED*4X36F**	*9MPV050	0.98	0.97	ED*4X42L**	MV20L24**B*	1.01	0.91	EHD4X42A**	*9MPV125	1.01	0.92
ED*4X36F**	*9MPV075	0.99	0.96	ED*4X42L**		1.01	1.00	EHD4X42A**	*9MVX040	0.99	0.96
ED*4X36F**	*9MVX040	0.98	0.97	EHD4X36A**	*8MPV050	1.00	0.97	EHD4X42A**	*9MVX060	1.00	0.97
ED*4X36F**	*9MVX060	0.99	0.97	EHD4X36A**	*8MPV075	0.99	0.92	EHD4X42A**	*9MVX080	1.02	0.95
ED*4X36F**	MV12F19**B*	0.99	0.90	EHD4X36A**	*8MPV100	0.99	0.90	EHD4X42A**	*9MVX100	1.01	0.92
ED*4X36J**	*8MPV100	1.01	0.94	EHD4X36A**	*8MPV125	0.99	0.90	EHD4X42A**	MV08B15**B*	1.01	0.91
ED*4X36J**	*8MPV125	1.01	0.94	EHD4X36A**	*9MPV050	1.00	0.97	EHD4X42A**	MV12F19**B*	1.01	0.91
ED*4X36J**	*9MPV100	1.01	0.95	EHD4X36A**	*9MPV075	0.99	0.94	EHD4X42A**	MV16J22**B*	1.01	0.91
ED*4X36J**	*9MVX080	1.01	0.94	EHD4X36A**	*9MPV100	0.99	0.92	EHD4X42A**	MV20L24**B*	1.01	0.91
ED*4X36J**	MV16J22**B*	1.00	0.91	EHD4X36A**	*9MPV125	0.99	0.90	EHD4X42A**		1.00	0.99
ED*4X36J**		1.00	1.00	EHD4X36A**	*9MVX040	0.98	0.97	EMA4X36D**		1.00	1.00
ED*4X42F**	*8MPV075	1.01	0.95	EHD4X36A**	*9MVX060	0.99	0.97	FEA4X36**A*		0.99	0.93
ED*4X42F**	*9MPV050	0.99	0.97	EHD4X36A**	*9MVX080	1.01	0.94	FEM4X36****		1.02	0.95
ED*4X42F**	*9MPV075	0.99	0.97	EHD4X36A**	*9MVX100	1.02	0.92	FEM4X42****		1.03	0.96
ED*4X42F**	*9MVX040	0.99	0.96	EHD4X36A**	MV08B15**B*	0.99	0.90	FS(M,U)4X42****		1.01	1.00
ED*4X42F**	*9MVX060	1.00	0.97	EHD4X36A**	MV12F19**B*	0.99	0.90	FSA4X36**A*		0.99	1.01
ED*4X42F**	MV12F19**B*	1.01	0.91	EHD4X36A**	MV16J22**B*	0.99	0.90	FSM4X36****		1.01	1.00
ED*4X42F**		1.00	0.99	EHD4X36A**	MV20L24**B*	0.99	0.90	FVM4X36****		0.99	0.90
ED*4X42J**	*8MPV100	1.02	0.95	EHD4X36A**		1.01	1.00	FVM4X48****		1.03	0.94
ED*4X42J**	*8MPV125	1.02	0.92	EHD4X42A**	*8MPV050	1.00	0.97	FVM4X60****		1.03	0.94

> Indicates Tested Indoor Model

- continued on next page -

COOLING Multiplying Factors for other Indoor Combinations (continued)											
Indoor Model	Furnace Model	Capac. (MBh)	Power (AMPS)	Indoor Model	Furnace Model	Capac. (MBh)	Power (AMPS)	Indoor Model	Furnace Model	Capac. (MBh)	Power (AMPS)
ED*4X42J**	*9MPV100	1.01	0.94	EHD4X42A**	*8MPV075	1.01	0.94				
ED*4X42J**	*9MVX080	1.02	0.95	EHD4X42A**	*8MPV100	1.02	0.92				
H2A342											
>ED*4X42J**		1.00	1.00	ED*4X48J**	*9MPV100	1.02	1.02	EHD4X48A**	*8MPV075	1.01	0.99
ED*4X42F**	*8MPV075	0.98	0.96	ED*4X48J**	*9MVX080	1.01	0.95	EHD4X48A**	*8MPV100	1.01	0.97
ED*4X42F**	*9MPV075	0.98	0.98	ED*4X48J**	MV16J22**B*	1.00	0.92	EHD4X48A**	*8MPV125	1.02	0.98
ED*4X42F**	*9MVX060	0.98	0.96	ED*4X48J**		1.01	1.01	EHD4X48A**	*9MPV075	1.00	0.98
ED*4X42F**	MV12F19**B*	0.99	0.91	ED*4X48L**	*9MPV125	1.02	1.01	EHD4X48A**	*9MPV100	1.01	0.97
ED*4X42F**		0.99	1.01	ED*4X48L**	*9MVX100	1.00	0.92	EHD4X48A**	*9MPV125	1.02	1.01
ED*4X42J**	*8MPV100	1.01	0.99	ED*4X48L**	MV20L24**B*	1.00	0.92	EHD4X48A**	*9MVX060	1.00	0.98
ED*4X42J**	*8MPV125	1.00	0.96	ED*4X48L**		1.01	1.01	EHD4X48A**	*9MVX080	1.01	0.95
ED*4X42J**	*9MVX080	0.99	0.94	EHD4X42A**	*8MPV075	1.00	0.98	EHD4X48A**	*9MVX100	1.00	0.92
ED*4X42J**	MV16J22**B*	0.99	0.91	EHD4X42A**	*8MPV100	1.01	0.97	EHD4X48A**	MV12F19**B*	1.00	0.92
ED*4X42L**	*9MPV125	1.01	1.01	EHD4X42A**	*8MPV125	1.01	0.97	EHD4X48A**	MV16J22**B*	1.00	0.92
ED*4X42L**	*9MVX100	0.99	0.93	EHD4X42A**	*9MPV075	0.99	0.97	EHD4X48A**	MV20L24**B*	1.00	0.92
ED*4X42L**	MV20L24**B*	0.99	0.91	EHD4X42A**	*9MPV100	0.99	0.94	EHD4X48A**		1.01	1.01
ED*4X42L**		1.00	1.00	EHD4X42A**	*9MPV125	1.01	0.99	EMA4X48D**		1.01	1.01
ED*4X48F**	*8MPV075	1.01	0.99	EHD4X42A**	*9MVX060	0.98	0.96	FEM4X42****		1.01	0.97
ED*4X48F**	*9MPV075	1.00	1.00	EHD4X42A**	*9MVX080	0.99	0.94	FEM4X48****		1.04	0.97
ED*4X48F**	*9MVX060	1.00	0.98	EHD4X42A**	*9MVX100	0.99	0.93	FS(M,U)4X42****		1.00	1.02
ED*4X48F**	MV12F19**B*	1.01	0.93	EHD4X42A**	MV12F19**B*	1.00	0.92	FS(M,U)4X48****		1.02	1.02
ED*4X48F**		1.01	1.01	EHD4X42A**	MV16J22**B*	1.00	0.92	FSM4X36****		1.01	1.02
ED*4X48J**	*8MPV100	1.01	0.97	EHD4X42A**	MV20L24**B*	1.00	0.92	FVM4X48****		1.01	0.93
ED*4X48J**	*8MPV125	1.02	0.98	EHD4X42A**		1.00	1.00	FVM4X60****		1.04	0.95
H2A348											
>ED*4X48J**		1.00	1.00	ED*4X60J**		1.00	0.98	EHD4X60A**	*9MPV100	1.01	0.95
ED*4X48F**		0.98	0.98	ED*4X60L**	*9MPV125	1.01	0.95	EHD4X60A**	*9MPV125	1.01	0.95

> Indicates Tested Indoor Model

- continued on next page -

COOLING Multiplying Factors for other Indoor Combinations (continued)											
Indoor Model	Furnace Model	Capac. (MBh)	Power (AMPS)	Indoor Model	Furnace Model	Capac. (MBh)	Power (AMPS)	Indoor Model	Furnace Model	Capac. (MBh)	Power (AMPS)
ED*4X48J**	*8MPV100	0.98	0.94	ED*4X60L**	*9MVX100	1.00	0.94	EHD4X60A**	*9MVX080	1.01	0.95
ED*4X48J**	*8MPV125	0.98	0.92	ED*4X60L**	MV20L24**B*	1.01	0.91	EHD4X60A**	*9MVX100	1.00	0.94
ED*4X48J**	*9MPV100	0.98	0.96	ED*4X60L**		1.01	0.99	EHD4X60A**	MV16J22**B*	1.01	0.91
ED*4X48J**	*9MVX080	0.99	0.97	EHD4X48A**	*8MPV100	1.00	0.96	EHD4X60A**	MV20L24**B*	1.01	0.91
ED*4X48J**	MV16J22**B*	0.98	0.90	EHD4X48A**	*8MPV125	1.00	0.94	EHD4X60A**		1.01	0.99
ED*4X48L**	*9MPV125	0.99	0.95	EHD4X48A**	*9MPV100	0.99	0.97	EMA4X48D**		0.98	0.98
ED*4X48L**	*9MVX100	0.98	0.94	EHD4X48A**	*9MPV125	0.99	0.95	FEM4X48****		1.01	0.95
ED*4X48L**	MV20L24**B*	0.99	0.91	EHD4X48A**	*9MVX080	0.99	0.97	FEM4X60****		1.03	0.95
ED*4X48L**		1.00	1.00	EHD4X48A**	*9MVX100	0.98	0.94	FS(M,U)4X48****		0.99	0.97
ED*4X60J**	*8MPV100	1.00	0.94	EHD4X48A**	MV16J22**B*	1.00	0.92	FS(M,U)4X60****		1.01	0.99
ED*4X60J**	*8MPV125	1.00	0.92	EHD4X48A**	MV20L24**B*	1.00	0.92	FVM4X48****		1.00	0.92
ED*4X60J**	*9MPV100	1.00	0.94	EHD4X48A**		1.00	1.00	FVM4X60****		1.01	0.91
ED*4X60J**	*9MVX080	1.01	0.95	EHD4X60A**	*8MPV100	1.01	0.95				
ED*4X60J**	MV16J22**B*	1.00	0.90	EHD4X60A**	*8MPV125	1.01	0.93				
H2A360											
>ED*4X60L**		1.00	1.00	ED*4X60L**	MV20L24**B*	0.99	0.97	EHD4X60A**		1.00	1.00
ED*4X60J**	*9MVX080	0.97	0.97	EHD4X60A**	*9MVX080	0.97	0.97	FEM4X60****		1.00	0.98
ED*4X60J**	MV16J22**B*	0.99	0.97	EHD4X60A**	MV16J22**B*	1.00	0.96	FVM4X60****		1.00	0.96
ED*4X60J**		1.00	1.00	EHD4X60A**	MV20L24**B*	0.99	0.97				

> Indicates Tested Indoor Model

OUTDOOR UNIT MODEL NUMBER IDENTIFICATION GUIDE (single phase)											
Digit Position:	1	2	3	4	5, 6	7	8	9	10	11	12
Example Part Number:	N	4	A	3	18	A	K	B	1	0	0
Product Family	REFRIGERANT		TYPE								
2 = R-22 4 = R-410A											
A = Air Conditioner H = Heat Pump			TYPE								
3 = 13 SEER 4 = 14 SEER			NOMINAL EFFICIENCY								
18 = 18,000 BTUH = 1½ tons 24 = 24,000 BTUH = 2 tons 30 = 30,000 BTUH = 2½ tons 36 = 36,000 BTUH = 3 tons 42 = 42,000 BTUH = 3½ tons 48 = 48,000 BTUH = 4 tons 60 = 60,000 BTUH = 5 tons			NOMINAL CAPACITY								
A = Standard Grille G = Coil Guard Grille C = Coastal						FEATURES					
K = 208/230-1-60						VOLTAGE					
Sales Code											
Engineering Revision											
Extra Digit											
Extra Digit											

ACCESSORIES PART NUMBER IDENTIFICATION GUIDE									
Digit Position:	1	2	3	4	5	6, 7	8, 9	10, 11	
Example Part Number:	N	A	S	A	0	01	01	CH	
N = Non-Branded	BRANDING								
A = Accessory	PRODUCT GROUP								
S = Split System (AC & HP)	KIT USAGE								
A = Original B = 2nd Generation			MAJOR SERIES						
0 = Generic or Not Applicable 2 = R-22 4 = R-410A			REFRIGERANT						
Product Identifier Number									
Package Quantity									
Type of Kit (Example: CH = Crankcase Heater)									