

TECHNICAL SUPPORT MANUAL

Split System Air Conditioner

N2A3**C (Coastal)

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:

 **WARNING**

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

 **CAUTION**

Signal Words on Product Labeling

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

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 **WARNING**

DEATH, PERSONAL INJURY, AND/OR PROPERTY DAMAGE HAZARD

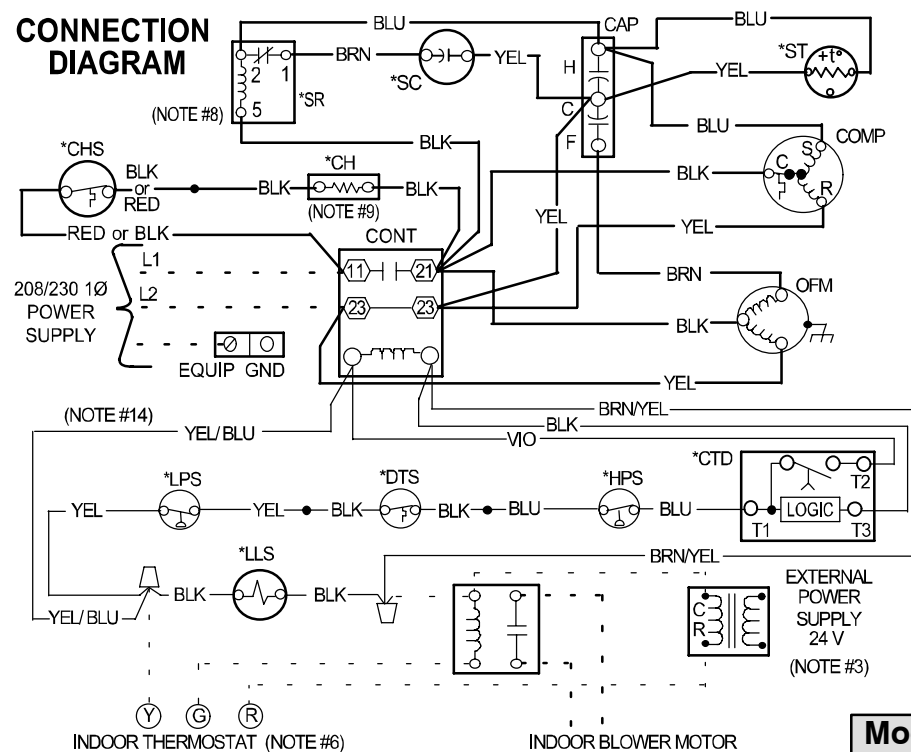
Failure to carefully read and follow this warning could result in equipment malfunction, property damage, personal injury and/or death.

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

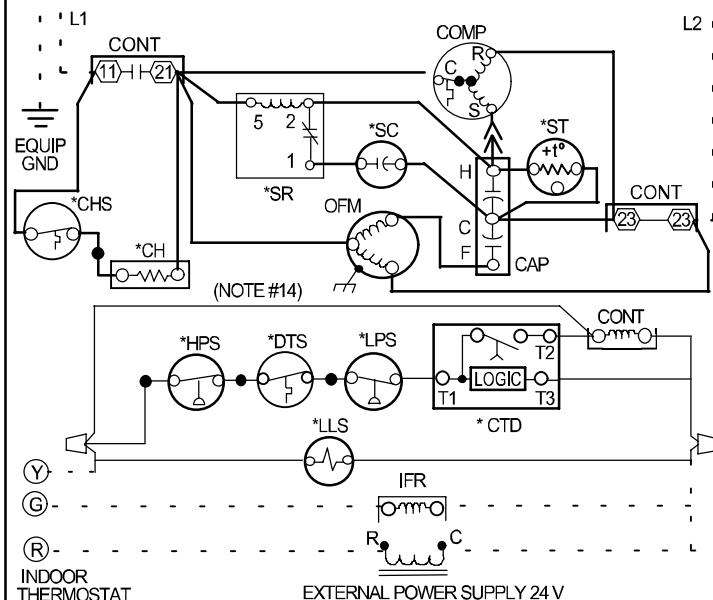
The information contained in this manual is intended for use by a qualified service technician familiar with safety procedures and equipped with the proper tools and test instruments.

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.

CONNECTION DIAGRAM



SCHEMATIC DIAGRAM (LADDER FORM)



Model Sizes: 24, 36, 48

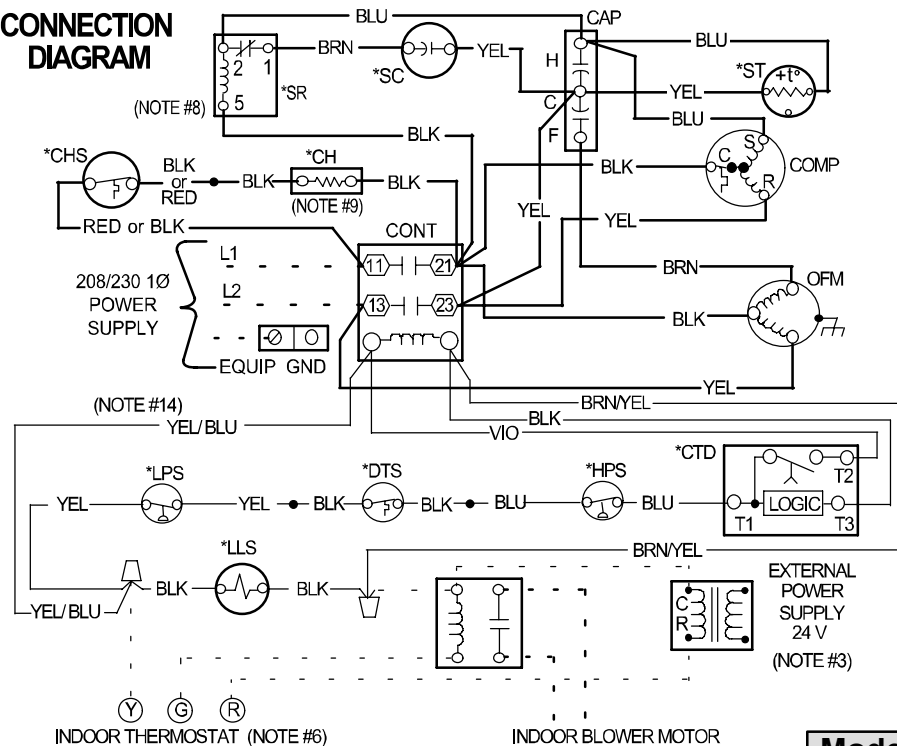
1. Symbols are electrical representation only.
2. Compressor and fan motor furnished with inherent thermal protection.
3. To be wired in accordance with National Electric N.E.C. and local codes.
4. N.E.C. class 2, 24 V circuit, min. 40 VA required, 60 VA on units installed with LLS.
5. Use copper conductors 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.

LEGEND

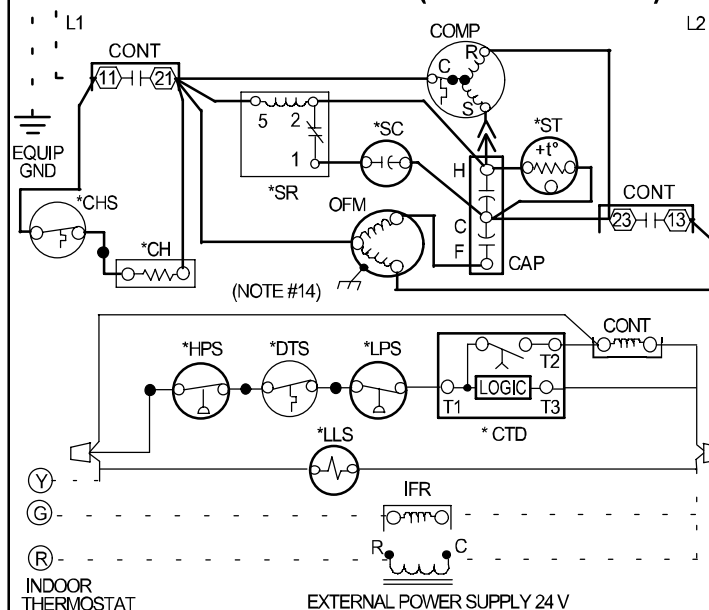
- FACTORY POWER WIRING
- - - FACTORY CONTROL WIRING
- - - FIELD CONTROL WIRING
- - - FIELD POWER WIRING
- COMPONENT CONNECTION
- ⊕ FIELD SPLICE
- ⊕ JUNCTION
- ⊕ PLUG RECEPTACLE
- CONT CONTACTOR
- CAP CAPACITOR (DUAL RUN)
- *CH CRANKCASE HEATER
- *CHS CRANKCASE HEATER SWITCH
- COMP COMPRESSOR
- *CTD COMPRESSOR TIME DELAY
- *DTS DISCHARGE TEMP SWITCH
- *HPS HIGH PRESSURE SWITCH
- IFR INDOOR FAN RELAY
- *LLS LIQ LINE SOLENOID VALVE
- *LPS LOW PRESSURE SWITCH
- OFM OUTDOOR FAN MOTOR
- *SC START CAPACITOR
- *SR START RELAY
- *ST START THERMISTOR

* MAY BE FACTORY INSTALLED

CONNECTION DIAGRAM



SCHEMATIC DIAGRAM (LADDER FORM)



Model Size: 60

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.

LEGEND

—	FACTORY POWER WIRING
—	FACTORY CONTROL WIRING
- - -	FIELD CONTROL WIRING
- - -	FIELD POWER WIRING
○	COMPONENT CONNECTION
⋈	FIELD SPICE
●	JUNCTION
⏏	PLUG RECEPTACLE
CONT	CONTACTOR
CAP	CAPACITOR (DUAL RUN)
*CH	CRANKCASE HEATER
*CHS	CRANKCASE HEATER SWITCH
COMP	COMPRESSOR
*CTD	COMPRESSOR TIME DELAY
*DTS	DISCHARGE TEMP SWITCH
*HPS	HIGH PRESSURE SWITCH
IFR	INDOOR FAN RELAY
*LLS	LIQ LINE SOLENOID VALVE
*LPS	LOW PRESSURE SWITCH
OFM	OUTDOOR FAN MOTOR
*SC	START CAPICATOR
*SR	START RELAY
*ST	START THERMISTOR

* MAY BE FACTORY INSTALLED

R-22 CHARGING CHART

- Find the required Subcooling Temperature on the unit Rating Plate. Use the closest column on the chart below (5, 10, 15, or 20) .
- Add or remove refrigerant until both the Liquid Line Temperature and Liquid Pressure agree with chart data.

Measured Liquid Pressure (psig)	Rating Plate (required) Subcooling Temperature (°F)			
	5	10	15	20
	R-22 Required Liquid Line Temperature (°F)			
134	71	66	61	56
141	74	69	64	59
148	77	72	67	62
156	80	75	70	65
163	83	78	73	68
171	86	81	76	71
179	89	84	79	74
187	92	87	82	77
196	95	90	85	80
205	98	93	88	83
214	101	96	91	86
223	104	99	94	89
233	107	102	97	92
243	110	105	100	95
253	113	108	103	98
264	116	111	106	101
274	119	114	109	104
285	122	117	112	107
297	125	120	115	110
309	128	123	118	113
321	131	126	121	116
331	134	129	124	119
346	137	132	127	122
359	140	135	130	125

COOLING		24 Size With EB*2X24* Indoor																			
		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
700	MBH†	27.25	24.42	22.12	21.71	26.13	23.38	21.19	20.94	25.03	22.35	20.29	20.19	23.94	21.34	19.41	19.43	22.86	20.33	18.67	18.67
	S/T‡	0.53	0.72	0.94	1.00	0.54	0.74	0.96	1.00	0.54	0.75	0.98	1.00	0.55	0.77	1.00	1.00	0.56	0.78	1.00	1.00
	AMPS*	7.28	7.25	7.21	7.20	7.93	7.88	7.83	7.82	8.68	8.60	8.52	8.52	9.53	9.41	9.30	9.30	10.49	10.32	10.18	10.18
	HI PR	157	156	156	155	185	184	183	183	216	215	214	214	250	249	247	247	287	285	284	284
	LO PR	83	76	70	68	84	77	71	70	86	78	73	72	87	80	74	74	89	81	77	77
800	MBH†	27.82	24.94	22.78	22.70	26.64	23.86	21.86	21.89	25.50	22.80	21.09	21.09	24.37	21.76	20.29	20.29	23.25	20.71	19.49	19.49
	S/T‡	0.55	0.76	0.98	1.00	0.56	0.77	1.00	1.00	0.56	0.79	1.00	1.00	0.57	0.81	1.00	1.00	0.58	0.83	1.00	1.00
	AMPS*	7.44	7.41	7.38	7.38	8.10	8.05	8.00	8.00	8.85	8.77	8.71	8.71	9.71	9.59	9.52	9.52	10.67	10.51	10.42	10.42
	HI PR	157	157	156	156	186	185	184	184	217	215	214	214	251	249	248	248	288	286	285	285
	LO PR	85	77	72	71	86	79	73	73	87	80	75	75	89	82	77	77	90	83	79	79
900	MBH†	28.24	25.35	23.52	23.53	27.03	24.24	22.67	22.67	25.85	23.15	21.83	21.84	24.69	22.08	21.00	21.00	23.54	21.02	20.16	20.16
	S/T‡	0.56	0.79	1.00	1.00	0.57	0.81	1.00	1.00	0.58	0.82	1.00	1.00	0.59	0.85	1.00	1.00	0.61	0.87	1.00	1.00
	AMPS*	7.59	7.57	7.54	7.54	8.26	8.21	8.18	8.18	9.02	8.94	8.90	8.90	9.88	9.77	9.72	9.72	10.85	10.70	10.64	10.64
	HI PR	157	157	156	156	186	185	184	184	217	216	215	215	251	249	249	249	288	286	286	286
	LO PR	86	79	74	74	88	80	76	76	89	82	78	78	90	83	80	80	91	84	82	82

† 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 With EB*2X36* Indoor																			
		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
1000	MBh†	39.70	36.05	33.03	32.29	38.28	34.76	31.88	31.35	36.82	33.43	30.70	30.36	35.31	32.06	29.50	29.34	33.75	30.64	28.29	28.27
	S/T‡	0.53	0.72	0.92	1.00	0.53	0.73	0.94	1.00	0.54	0.74	0.96	1.00	0.55	0.75	0.98	1.00	0.56	0.77	0.99	1.00
	AMPS*	11.25	11.10	10.98	10.95	12.27	12.12	12.00	11.98	13.41	13.26	13.14	13.13	14.68	14.53	14.41	14.41	16.08	15.93	15.82	15.81
	HI PR	160	158	156	156	189	186	185	184	220	217	215	215	254	251	248	248	291	287	285	285
	LO PR	82	74	67	66	83	75	69	68	84	76	70	69	86	78	72	71	87	79	73	73
1100	MBh†	40.17	36.49	33.58	33.21	38.70	35.16	32.42	32.21	37.20	33.80	31.25	31.18	35.66	32.39	30.09	30.11	34.05	30.94	28.99	28.99
	S/T‡	0.54	0.74	0.95	1.00	0.55	0.75	0.97	1.00	0.55	0.76	0.99	1.00	0.56	0.78	1.00	1.00	0.57	0.80	1.00	1.00
	AMPS*	11.46	11.30	11.18	11.17	12.47	12.32	12.21	12.20	13.61	13.46	13.35	13.35	14.88	14.73	14.62	14.62	16.28	16.13	16.03	16.03
	HI PR	160	158	157	157	189	187	185	185	220	218	216	216	254	251	249	249	291	288	286	286
	LO PR	83	75	69	68	84	76	70	70	86	78	72	72	87	79	73	73	88	80	75	75
1300	MBh†	40.84	37.15	34.67	34.71	39.30	35.76	33.63	33.63	37.74	34.34	32.51	32.51	36.12	32.88	31.36	31.36	34.45	31.38	30.15	30.15
	S/T‡	0.56	0.78	1.00	1.00	0.57	0.80	1.00	1.00	0.58	0.81	1.00	1.00	0.59	0.83	1.00	1.00	0.60	0.85	1.00	1.00
	AMPS*	11.85	11.69	11.59	11.59	12.86	12.71	12.62	12.62	14.00	13.85	13.77	13.77	15.26	15.11	15.04	15.04	16.66	16.51	16.45	16.45
	HI PR	161	159	158	158	190	187	186	186	221	218	217	217	255	252	251	251	292	289	287	287
	LO PR	85	77	72	72	86	79	74	74	88	80	76	76	89	81	77	77	90	82	79	79

† 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		48 Size With EB*2X48* Indoor																			
		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
1400	MBh†	54.42	49.15	44.52	43.82	52.32	47.19	42.79	42.37	50.20	45.20	41.06	40.90	48.04	43.19	39.34	39.40	45.85	41.14	37.66	37.86
	S/T‡	0.52	0.69	0.90	1.00	0.52	0.71	0.92	1.00	0.53	0.72	0.94	1.00	0.54	0.73	0.96	1.00	0.54	0.75	0.99	1.00
	AMPS*	14.63	14.45	14.29	14.26	15.86	15.66	15.47	15.45	17.24	17.00	16.79	16.78	18.77	18.49	18.24	18.25	20.46	20.12	19.85	19.87
	HI PR	165	163	161	161	194	191	189	188	225	222	219	219	259	255	252	252	296	292	288	289
	LO PR	81	74	67	66	82	75	69	68	84	77	70	70	85	78	72	72	87	80	74	74
1600	MBh†	55.48	50.11	45.73	45.69	53.30	48.07	44.00	44.15	51.09	46.00	42.31	42.58	48.85	43.91	40.82	40.99	46.58	41.78	39.35	39.36
	S/T‡	0.53	0.72	0.94	1.00	0.54	0.73	0.96	1.00	0.54	0.75	0.98	1.00	0.55	0.76	1.00	1.00	0.56	0.78	1.00	1.00
	AMPS*	14.99	14.81	14.65	14.65	16.22	16.02	15.85	15.86	17.60	17.37	17.18	17.20	19.13	18.86	18.67	18.69	20.83	20.51	20.33	20.33
	HI PR	166	163	162	162	194	192	190	190	226	222	220	220	260	256	254	254	297	292	290	290
	LO PR	83	76	70	70	84	77	71	71	86	78	73	73	87	80	75	75	88	81	77	77
1800	MBh†	56.28	50.83	46.89	47.23	54.03	48.73	45.22	45.61	51.75	46.59	43.95	43.96	49.44	44.43	42.28	42.28	47.11	42.25	40.57	40.57
	S/T‡	0.54	0.74	0.98	1.00	0.55	0.76	1.00	1.00	0.56	0.77	1.00	1.00	0.57	0.79	1.00	1.00	0.58	0.81	1.00	1.00
	AMPS*	15.33	15.15	15.02	15.03	16.57	16.37	16.23	16.24	17.95	17.72	17.59	17.60	19.49	19.22	19.10	19.10	21.20	20.87	20.76	20.76
	HI PR	166	164	162	162	195	192	190	191	226	223	221	221	260	257	255	255	297	293	292	292
	LO PR	84	77	72	72	86	78	73	74	87	80	76	76	88	81	78	78	90	82	80	80

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

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‡ 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 With EB*2X60* Indoor																			
		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
1750	MBh†	66.86	60.60	55.34	54.01	64.45	58.38	53.35	52.39	61.91	56.04	51.27	50.67	59.24	53.59	49.11	48.84	56.44	51.01	46.86	46.91
	S/T‡	0.53	0.71	0.92	1.00	0.53	0.72	0.94	1.00	0.54	0.74	0.96	1.00	0.55	0.75	0.98	1.00	0.56	0.77	1.00	1.00
	AMPS*	17.90	17.69	17.52	17.48	19.60	19.38	19.20	19.16	21.48	21.24	21.05	21.02	23.53	23.27	23.06	23.05	25.75	25.47	25.24	25.24
	HI PR	167	165	163	163	198	195	193	192	230	227	225	224	266	262	259	259	304	299	296	296
	LO PR	88	80	73	71	89	81	74	73	90	82	75	74	92	83	77	76	93	85	78	78
2000	MBh†	68.10	61.73	56.70	56.21	65.58	59.43	54.69	54.48	62.94	57.00	52.60	52.65	60.16	54.46	50.70	50.71	57.24	51.79	48.65	48.66
	S/T‡	0.54	0.74	0.97	1.00	0.55	0.76	0.98	1.00	0.56	0.77	1.00	1.00	0.57	0.79	1.00	1.00	0.58	0.81	1.00	1.00
	AMPS*	18.34	18.13	17.96	17.95	20.04	19.82	19.65	19.64	21.92	21.68	21.51	21.51	23.97	23.72	23.54	23.54	26.20	25.92	25.75	25.75
	HI PR	168	166	164	164	198	196	194	193	231	228	226	226	267	263	260	260	305	300	298	298
	LO PR	90	82	75	74	91	83	76	76	92	84	78	78	94	85	80	80	95	87	82	82
2250	MBh†	69.02	62.61	57.98	58.03	66.41	60.22	56.20	56.21	63.68	57.72	54.28	54.28	60.82	55.11	52.24	52.24	57.81	52.38	50.08	50.09
	S/T‡	0.56	0.78	1.00	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	0.60	0.85	1.00	1.00
	AMPS*	18.77	18.56	18.40	18.41	20.47	20.25	20.10	20.10	22.35	22.11	21.98	21.98	24.40	24.15	24.02	24.02	26.63	26.35	26.24	26.24
	HI PR	168	166	165	165	199	196	194	194	232	229	227	227	267	264	262	262	305	301	299	299
	LO PR	92	83	77	77	93	84	79	79	94	86	81	81	95	87	83	83	96	88	85	85

† 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 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)
N2A324CK*											
*EB*2X24B**		1.00	1.00	EHD2X24A**	*8MPV050	1.02	0.95	EP*30B****		0.95	0.99
EB*2X24B**	*8MPV050	1.02	0.97	EHD2X24A**	*8MPV075	1.03	0.96	EP*30B****	*8MPV050	0.96	0.96
EB*2X24B**	MV08B15****	1.03	0.96	EHD2X24A**	*8MPV100	1.04	0.97	EP*30B****	MV08B15****	0.96	0.92
EB*2X24F**		1.00	1.00	EHD2X24A**	*8MPV125	1.03	0.96	EP*30F****		0.95	0.99
EB*2X24F**	*9MPV050	1.02	0.95	EHD2X24A**	*9MPV050	1.01	0.94	EP*30F****	*9MPV050	0.96	0.93
EB*2X24F**	*9MPV075	1.03	0.96	EHD2X24A**	*9MPV075	1.01	0.94	EP*30F****	*9MPV075	0.96	0.94
EB*2X24F**	MV12F19****	1.03	0.96	EHD2X24A**	*9MPV100	1.03	0.96	EP*30F****	MV12F19****	0.96	0.92
EB*2X30B**		1.01	1.01	EHD2X24A**	MV08B15****	1.03	0.96	EX*24B****		1.00	1.02
EB*2X30B**	*8MPV050	1.02	0.95	EHD2X24A**	MV12F19****	1.04	0.97	EX*24B****	*8MPV050	1.01	0.97
EB*2X30B**	MV08B15****	1.04	0.97	EHD2X24A**	MV16J22****	1.04	0.97	EX*24B****	MV08B15****	1.02	0.95
EB*2X30F**		1.01	1.01	EHD2X24A**	MV20N26****	1.04	0.97	EX*24F****		1.00	1.02
EB*2X30F**	*9MPV050	1.02	0.95	EHD2X30A**		1.01	1.01	EX*24F****	*8MPV075	1.02	0.97
EB*2X30F**	*9MPV075	1.03	0.96	EHD2X30A**	*8MPV050	1.02	0.95	EX*24F****	*9MPV050	1.01	0.97
EB*2X30F**	MV12F19****	1.04	0.97	EHD2X30A**	*9MPV050	1.03	0.96	EX*24F****	*9MPV075	1.00	0.96
ED*2X24B**		1.01	1.01	EHD2X30A**	*9MPV075	1.03	0.96	EX*24F****	MV12F19****	1.02	0.95
ED*2X24B**	*8MPV050	1.03	0.98	EHD2X30A**	*9MPV100	1.04	0.97	FS(M,U)2X24***		0.99	0.99
ED*2X24B**	MV08B15****	1.04	0.97	EHD2X30A**	MV08B15****	1.04	0.97	FS(M,U)2X30***		1.01	0.98
ED*2X24F**		1.01	1.01	EHD2X30A**	MV12F19****	1.03	0.96	FEM2X24****		1.01	0.94
ED*2X24F**	*9MPV050	1.03	0.96	EHD2X30A**	MV16J22****	1.04	0.97	FEM2X30****		1.02	0.95
ED*2X24F**	*9MPV075	1.04	0.97	EHD2X30A**	MV20N26****	1.03	0.96	EBP24****		0.98	0.99
ED*2X24F**	MV12F19****	1.04	0.97	EL*24B****	*8MPV050	0.94	0.94	EBP30****		1.00	1.00
ED*2X30B**		1.02	1.02	EL*24B****	MV08B15****	0.94	0.90	FSA2X24****		0.98	0.96
ED*2X30B**	*8MPV050	1.03	0.96	EL*30B****		0.95	0.99	FSA2X30****		0.98	0.98
ED*2X30B**	MV08B15****	1.04	0.97	EL*30B****	*8MPV050	0.96	0.96	FWM24****		0.96	0.97
ED*2X30F**		1.02	1.02	EL*30B****	MV08B15****	0.96	0.92	FWM30****		0.97	0.99
ED*2X30F**	*9MPV050	1.03	0.96	EMH30F****		0.95	0.99	EBV24****		1.04	0.97
ED*2X30F**	*9MPV075	1.03	0.96	EP*24B****	*8MPV050	0.94	0.94	EBV36****		1.03	0.96

> Indicates Tested Indoor Model

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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*2X30F**	MV12F19****	1.04	0.97	EP*24B****	MV08B15****	0.94	0.90	EBV48****		1.05	1.01
EMA2X24D**		1.00	1.00	EP*24F****	*9MPV050	0.94	0.95	EBX18****		0.98	0.99
EHD2X24A**		1.00	1.00	EP*24F****	MV12F19****	0.95	0.91	EBX24****		1.00	1.00
N2A336CK*											
*EB*2X36F**		1.00	1.00	EHD2X36A**	MV12F19****	1.04	0.96	EP*42F****	*8MPV075	0.98	0.97
EB*2X36B**		0.99	0.99	EHD2X36A**	MV16J22****	1.05	0.97	EP*42F****	*9MPV050	0.97	1.00
EB*2X36B**	MV08B15****	1.01	0.98	EHD2X36A**	MV20N26****	1.03	0.95	EP*42F****	*9MPV075	0.98	1.00
EB*2X36F**	*8MPV075	1.01	0.97	EHD2X42A**		1.04	1.03	EP*42F****	MV12F19****	1.00	0.97
EB*2X36F**	MV12F19****	1.01	0.96	EHD2X42A**	*8MPV050	1.02	0.99	EP*42J****		0.99	1.03
EB*2X36J**		1.00	1.00	EHD2X42A**	*8MPV075	1.04	0.99	EP*42J****	*8MPV100	0.97	0.99
EB*2X36J**	*8MPV100	1.01	0.96	EHD2X42A**	*8MPV100	1.04	0.96	EP*42J****	*8MPV125	0.97	0.98
EB*2X36J**	*8MPV125	1.01	0.94	EHD2X42A**	*8MPV125	1.04	0.96	EP*42J****	*9MPV100	0.98	1.02
EB*2X36J**	*9MPV100	1.01	0.96	EHD2X42A**	*9MPV050	1.02	0.99	EP*42J****	MV16J22****	0.98	0.94
EB*2X36J**	MV16J22****	1.03	0.95	EHD2X42A**	*9MPV075	1.04	1.00	EPP036****		0.88	0.98
EB*2X42J**		1.01	1.00	EHD2X42A**	*9MPV100	1.04	0.96	EX*36B****		0.99	1.01
EB*2X42J**	*8MPV100	1.02	0.94	EHD2X42A**	*9MPV125	1.05	0.97	EX*36B****	*8MPV050	0.99	1.00
EB*2X42J**	*8MPV125	1.02	0.95	EHD2X42A**	MV08B15****	1.04	0.96	EX*36B****	MV08B15****	1.01	0.98
EB*2X42J**	*9MPV100	1.02	0.97	EHD2X42A**	MV12F19****	1.05	0.97	EX*36F****		0.99	1.01
EB*2X42J**	MV16J22****	1.02	0.94	EHD2X42A**	MV16J22****	1.04	0.96	EX*36F****	*8MPV075	1.01	1.00
EB*2X42L**		1.01	1.00	EHD2X42A**	MV20N26****	1.04	0.96	EX*36F****	*9MPV050	0.99	1.00
EB*2X42L**	*9MPV125	1.02	0.97	EL*36B****		0.93	0.99	EX*36F****	*9MPV075	0.99	1.00
ED*2X36B**		0.99	0.99	EL*36B****	*8MPV050	0.93	0.99	EX*36F****	MV12F19****	1.02	0.97
ED*2X36B**	MV08B15****	1.01	0.98	EL*36B****	MV08B15****	0.96	0.99	EX*36J****		1.01	1.02
ED*2X36F**		1.00	1.00	EL*36F****		0.95	1.02	EX*36J****	*8MPV100	1.02	0.97
ED*2X36F**	*8MPV075	1.01	0.97	EL*36F****	*8MPV075	0.95	0.97	EX*36J****	*8MPV125	1.01	0.95
ED*2X36F**	MV12F19****	1.01	0.96	EL*36F****	*9MPV050	0.94	0.99	EX*36J****	*9MPV100	1.01	0.95
ED*2X36J**		1.00	1.00	EL*36F****	*9MPV075	0.95	0.99	EX*36J****	MV16J22****	1.02	0.95
ED*2X36J**	*8MPV100	1.01	0.96	EL*36F****	MV12F19****	0.96	0.93	EX*42F****		1.02	1.03

> Indicates Tested Indoor Model

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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*2X36J**	*8MPV125	1.01	0.94	EL*42F****		0.98	1.01	EX*42F****	*8MPV075	1.02	0.98
ED*2X36J**	*9MPV100	1.01	0.96	EL*42F****	*8MPV075	0.98	0.97	EX*42F****	*9MPV050	1.01	0.98
ED*2X36J**	MV16J22****	1.01	0.93	EL*42F****	*9MPV050	0.97	1.00	EX*42F****	*9MPV075	1.01	0.98
ED*2X42J**		1.01	1.00	EL*42F****	*9MPV075	0.98	1.00	EX*42F****	MV12F19****	1.02	0.95
ED*2X42J**	*8MPV100	1.02	0.94	EL*42F****	MV12F19****	0.99	0.94	EX*42J****		1.02	1.03
ED*2X42J**	*8MPV125	1.02	0.95	EMH36F****		0.95	1.02	EX*42J****	*8MPV100	1.02	0.97
ED*2X42J**	*9MPV100	1.02	0.97	EMH42F****		0.98	1.01	EX*42J****	*8MPV125	1.02	0.95
ED*2X42J**	MV16J22****	1.04	0.96	EP*36B****		0.93	0.99	EX*42J****	*9MPV100	1.02	0.97
ED*2X42L**		1.01	1.00	EP*36B****	*8MPV050	0.93	0.99	EX*42J****	MV16J22****	1.04	0.97
ED*2X42L**	*9MPV125	1.02	0.97	EP*36B****	MV08B15****	0.95	0.94	FSU2X36****		0.99	1.03
EMA2X36D**		1.00	1.00	EP*36F****		0.95	1.02	FS(M,U)2X42***		1.01	1.01
EHD2X36A**		1.03	1.02	EP*36F****	*8MPV075	0.95	0.97	FEM2X35****		1.01	0.94
EHD2X36A**	*8MPV050	1.02	0.98	EP*36F****	*9MPV050	0.94	0.99	FSM2X36****		1.01	1.01
EHD2X36A**	*8MPV075	1.04	0.98	EP*36F****	*9MPV075	0.95	0.99	FEM2X36****		1.03	0.96
EHD2X36A**	*8MPV100	1.03	0.95	EP*36F****	MV12F19****	0.96	0.93	FEM2X42****		1.02	0.98
EHD2X36A**	*8MPV125	1.03	0.95	EP*36J****		0.95	1.02	EBP36****		0.98	1.03
EHD2X36A**	*9MPV050	1.02	0.98	EP*36J****	*8MPV100	0.95	0.92	EBP42****		0.99	1.02
EHD2X36A**	*9MPV075	1.03	0.99	EP*36J****	*8MPV125	0.96	0.96	FSA2X36****		0.99	0.99
EHD2X36A**	*9MPV100	1.03	0.98	EP*36J****	*9MPV100	0.95	0.96	EBV36****		1.02	0.97
EHD2X36A**	*9MPV125	1.04	0.96	EP*36J****	MV16J22****	0.97	0.92	EBV48****		1.05	0.98
EHD2X36A**	MV08B15****	1.04	0.96	EP*42F****		0.98	1.01	EBV60****		1.07	0.99
								EBX36****		0.99	1.03
N2A348CK*											
*EB*2X48J**		1.00	1.00	EMA2X48D**		0.98	0.98	EP*48N****		0.96	0.94
EB*2X48F**		0.99	0.99	EHD2X48A**		1.02	1.02	EP*48N****	MV20N26****	0.98	0.94
EB*2X48J**	*8MPV100	1.01	0.98	EHD2X48A**	*8MPV100	1.02	0.98	EP*60J****		0.99	0.99
EB*2X48J**	*8MPV125	1.01	0.97	EHD2X48A**	*8MPV125	1.02	0.98	EP*60J****	*8MPV100	0.99	0.96
EB*2X48J**	*9MPV100	1.00	0.97	EHD2X48A**	*9MPV100	1.01	0.98	EP*60J****	*8MPV125	0.99	0.95

> Indicates Tested Indoor Model

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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)
EB*2X48J**	MV16J22****	1.02	0.95	EHD2X48A**	*9MPV125	1.01	0.97	EP*60J****	*9MPV100	0.98	0.98
EB*2X48L**		1.00	1.00	EHD2X48A**	MV16J22****	1.01	0.94	EP*60J****	MV16J22****	1.00	0.96
EB*2X48L**	*9MPV125	1.00	0.96	EHD2X48A**	MV20N26****	1.03	0.96	EP*60L****		0.99	0.99
EB*2X60J**		1.01	1.01	EHD2X60A**		1.04	1.00	EP*60L****	*9MPV125	0.99	0.96
EB*2X60J**	*8MPV100	1.02	0.98	EHD2X60A**	*8MPV100	1.03	0.96	EP*60N****		0.99	0.99
EB*2X60J**	*8MPV125	1.02	0.95	EHD2X60A**	*8MPV125	1.03	0.96	EP*60N****	MV20N26****	1.00	0.96
EB*2X60J**	*9MPV100	1.01	0.97	EHD2X60A**	*9MPV100	1.03	0.99	EX*48J****		0.98	0.98
EB*2X60J**	MV16J22****	1.01	0.94	EHD2X60A**	*9MPV125	1.04	0.97	EX*48J****	*9MPV125	0.98	0.95
EB*2X60L**		1.03	1.03	EHD2X60A**	MV16J22****	1.04	0.97	EX*48L****		0.98	0.98
EB*2X60L**	*9MPV125	1.03	0.99	EHD2X60A**	MV20N26****	1.07	0.99	EX*48L****	*9MPV125	0.98	0.95
ED*2X48F**		0.99	0.99	EL*48F****		0.93	0.93	EX*48N****		0.98	0.98
ED*2X48J**		1.00	1.00	EL*60J****		0.99	0.99	EX*48N****	MV20N26****	1.00	0.96
ED*2X48J**	*8MPV100	1.01	0.98	EL*60J****	*8MPV100	0.99	0.96	EX*60L****		1.04	1.04
ED*2X48J**	*8MPV125	1.01	0.97	EL*60J****	*8MPV125	0.99	0.95	EX*60L****	*9MPV125	1.03	0.99
ED*2X48J**	*9MPV100	1.00	0.97	EL*60J****	*9MPV100	0.98	0.98	EX*60N****		1.04	1.04
ED*2X48J**	MV16J22****	1.00	0.93	EL*60J****	MV16J22****	0.99	0.92	EX*60N****	MV20N26****	1.05	0.98
ED*2X48L**		1.00	1.00	EMH48F****		0.95	0.93	FS(M,U)2X48***		1.00	1.00
ED*2X48L**	*9MPV125	1.00	0.96	EP*48F****		0.93	0.93	FS(M,U)2X60***		1.03	0.99
ED*2X60J**		1.01	1.01	EP*48J****		0.96	0.94	FEM2X48****		1.03	0.96
ED*2X60J**	*8MPV100	1.02	0.98	EP*48J****	*8MPV100	0.97	0.95	FEM2X60****		1.05	0.98
ED*2X60J**	*8MPV125	1.02	0.98	EP*48J****	*8MPV125	0.97	0.97	EBP48****		0.98	0.96
ED*2X60J**	*9MPV100	1.01	0.97	EP*48J****	*9MPV100	0.96	0.95	EBP60****		1.00	0.98
ED*2X60J**	MV16J22****	1.01	0.94	EP*48J****	MV16J22****	0.98	0.94	EBV48****		1.03	0.99
ED*2X60L**		1.03	1.03	EP*48L****		0.96	0.94	EBV60****		1.05	0.98
ED*2X60L**	*9MPV125	1.03	0.99	EP*48L****	*9MPV125	0.97	0.97	EBX48****		1.01	0.98
								EBX60****		1.03	0.99

> Indicates Tested Indoor Model

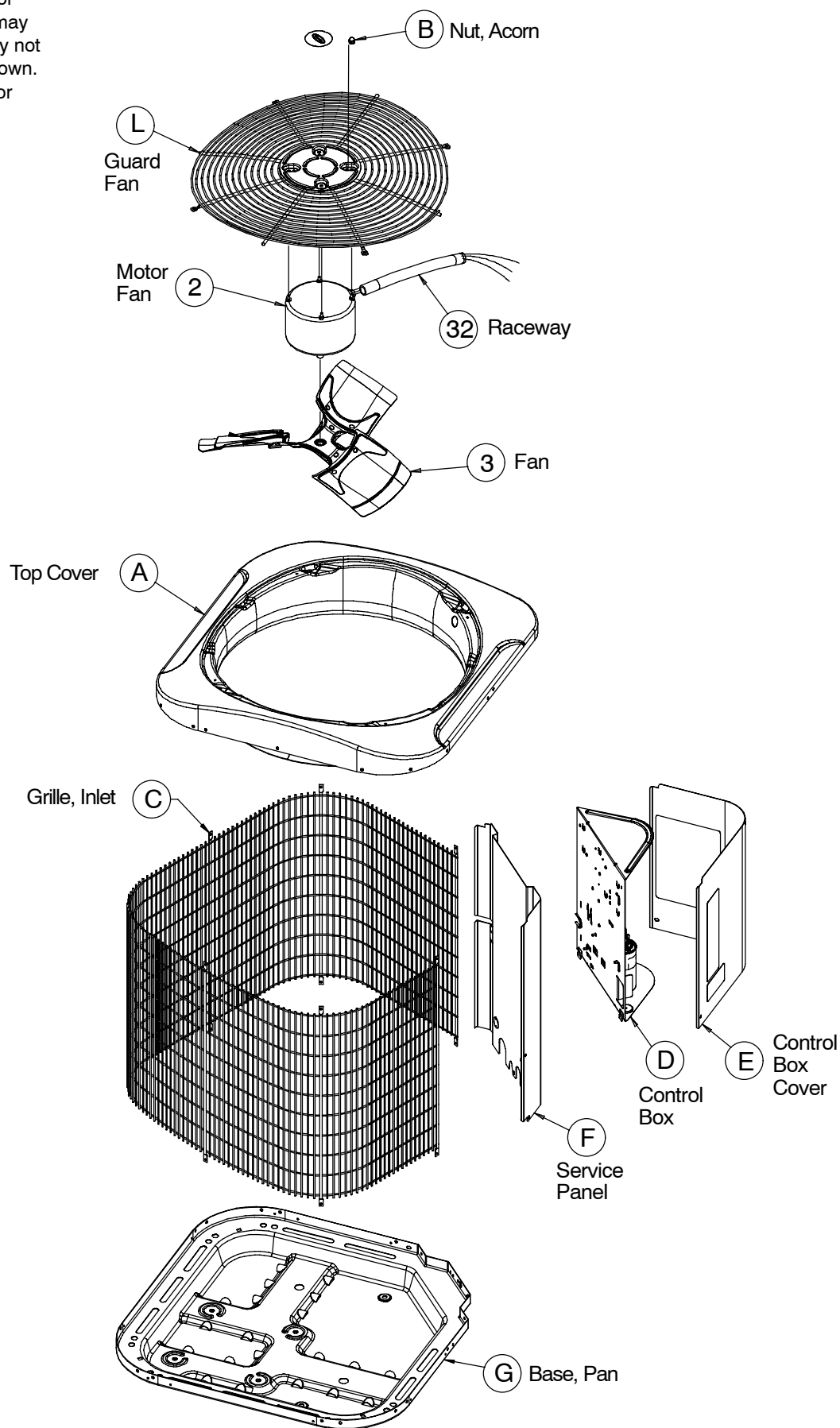
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COOLING Multiplying Factors for other Indoor Combinations (continued)

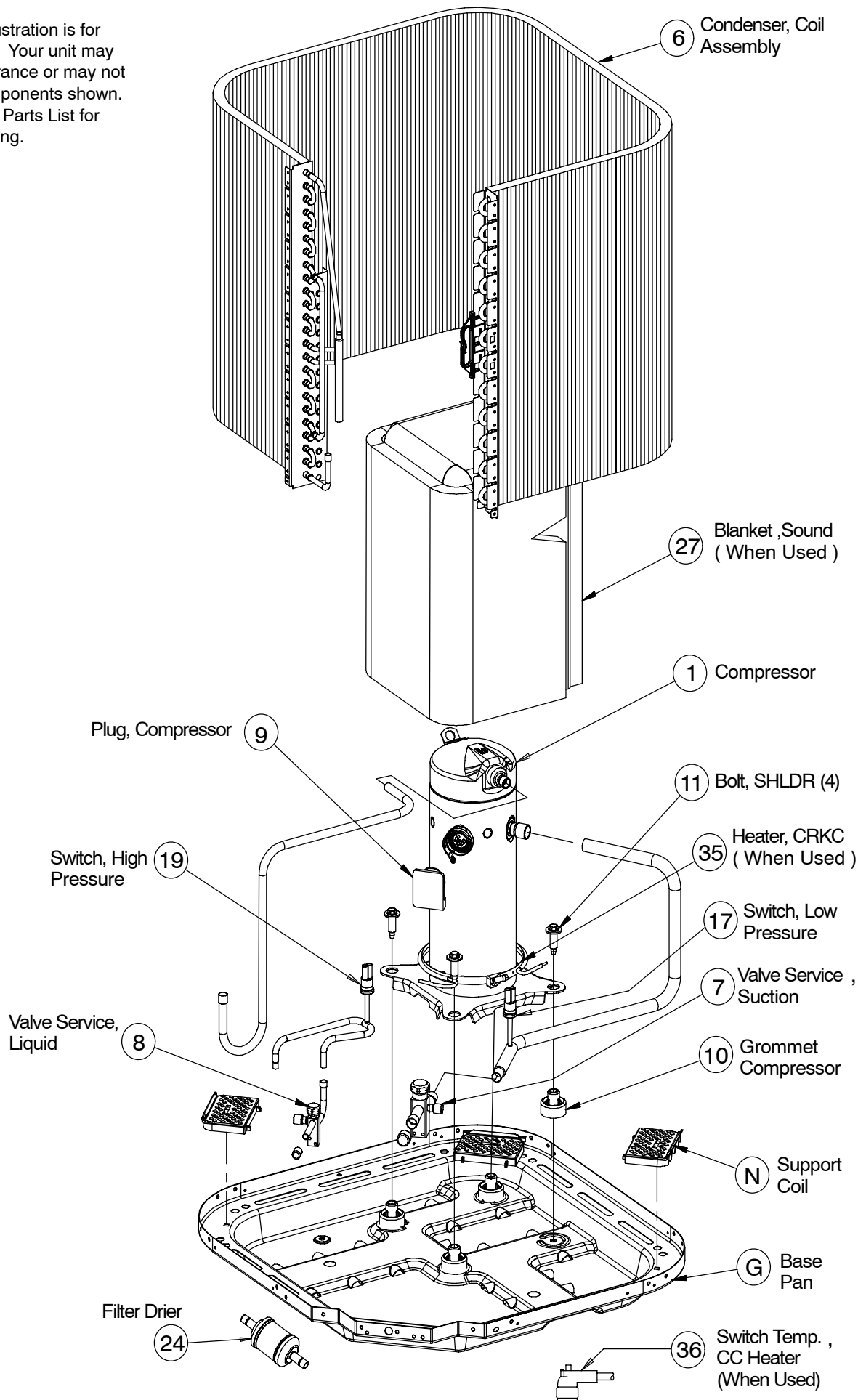
Indoor Model	Furnace Model	Capac. (MBh)	Power (AMPS)	Indoor Model	Furnace Model	Capac. (MBh)	Power (AMPS)	Indoor Model	Furnace Model	Capac. (MBh)	Power (AMPS)
N2A360CK*											
*EB*2X60L**		1.00	1.00	EHD2X60A**	*8MPV125	0.99	0.95	EP*60J****	MV16J22****	0.96	0.96
EB*2X60J**		0.98	0.98	EHD2X60A**	*9MPV100	0.97	0.95	EP*60L****		0.94	0.96
EB*2X60J**	*8MPV100	0.98	0.94	EHD2X60A**	*9MPV125	0.98	0.94	EP*60L****	*9MPV125	0.94	0.97
EB*2X60J**	*8MPV125	0.98	0.94	EHD2X60A**	MV16J22****	1.00	0.96	EP*60N****		0.94	0.96
EB*2X60J**	MV16J22****	1.00	0.96	EHD2X60A**	MV20N26****	1.01	0.97	EP*60N****	MV20N26****	0.96	0.96
EB*2X60L**	*9MPV125	0.96	0.94	EL*60J****		0.94	0.96	EX*60L****		1.00	0.96
ED*2X60J**		0.98	0.98	EL*60J****	*8MPV100	0.94	0.97	EX*60L****	*9MPV125	1.00	0.97
ED*2X60J**	*8MPV100	0.98	0.96	EL*60J****	*8MPV125	0.95	0.96	EX*60N****		1.00	1.00
ED*2X60J**	*8MPV125	0.98	0.94	EL*60J****	*9MPV100	0.94	1.01	EX*60N****	MV20N26****	1.01	0.97
ED*2X60J**	MV16J22****	1.00	0.96	EL*60J****	MV16J22****	0.96	0.96	FS(M,U)2X60***		0.98	0.98
ED*2X60L**		1.00	1.00	EP*60J****		0.94	0.96	FEM2X60****		1.01	0.97
ED*2X60L**	*9MPV125	0.97	0.95	EP*60J****	*8MPV100	0.94	0.97	EBP60****		0.96	0.97
EHD2X60A**		1.00	1.00	EP*60J****	*8MPV125	0.95	0.96	EBV60****		0.99	0.95
EHD2X60A**	*8MPV100	0.98	0.93	EP*60J****	*9MPV100	0.94	1.01	EBX60****		0.98	0.96

> Indicates Tested Indoor Model

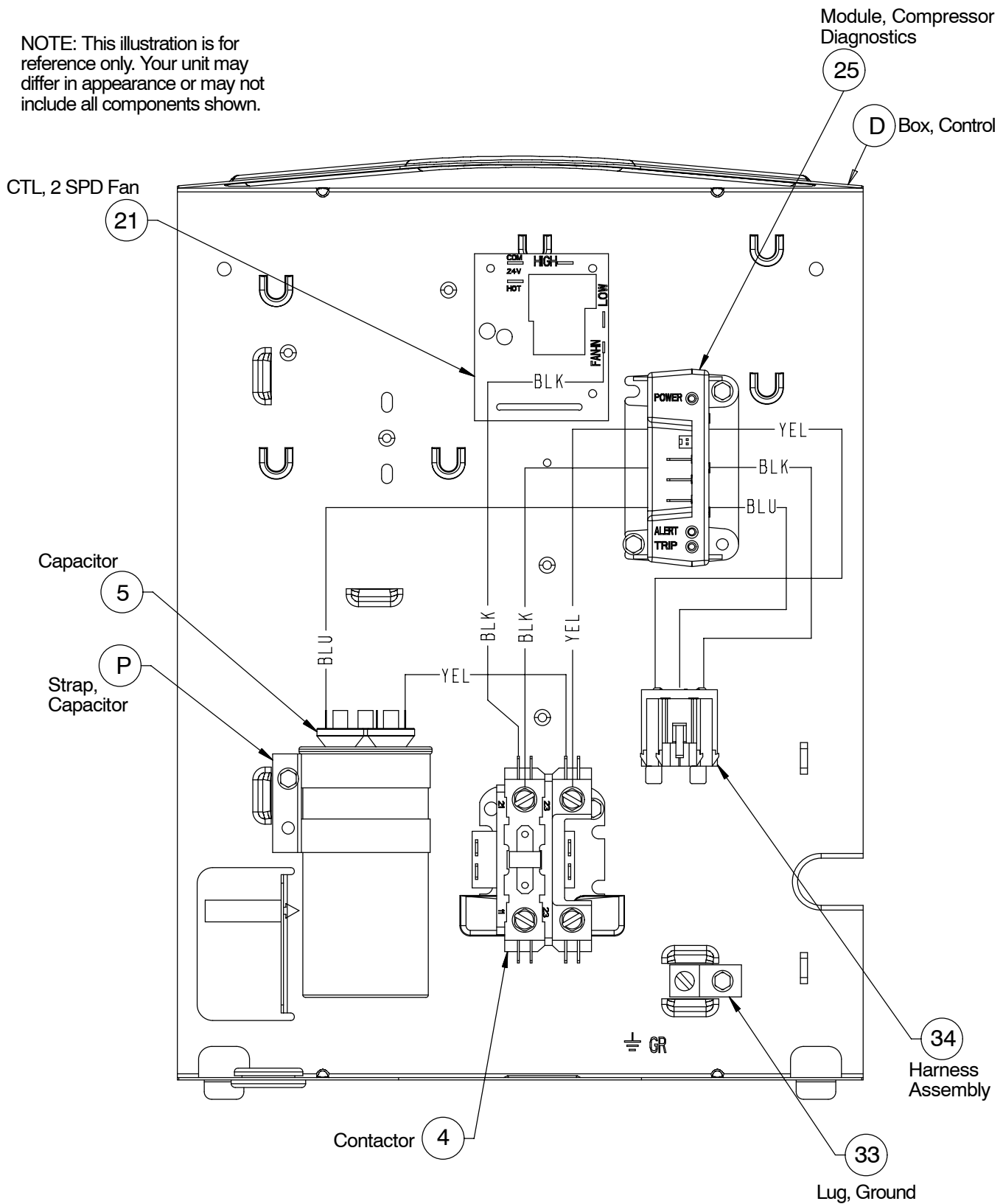
NOTE: This illustration is for reference only. Your unit may differ in appearance or may not include all components shown. Please refer to Parts List for exact parts listing.



NOTE: This illustration is for reference only. Your unit may differ in appearance or may not include all components shown. Please refer to Parts List for exact parts listing.



NOTE: This illustration is for reference only. Your unit may differ in appearance or may not include all components shown.



N2A3**C PARTS LIST						
KEY NO.	DESCRIPTION	PART NO.	N2A324CKA100	N2A336CKA100	N2A348CKA100	N2A360CKA100
1	Compressor	ZR21KAPFV130	1	–	–	–
1		ZR32KAPFV130	–	1	–	–
1		ZR44KAPFV130	–	–	1	–
1		ZR54KAPFV130	–	–	–	1
2	Motor, Condenser Fan	1173646	1	–	–	–
2		1172775	–	1	–	–
2		1173665	–	–	1	1
3	Fan Blade	1173874	1	–	–	–
3		1172713	–	1	–	–
3		1172716	–	–	1	1
4	Contactor, 30 Amp	1172472	1	1	1	–
4	40 Amp	1172786	–	–	–	1
5	Capacitor, 370V 35+5 Mfd	1172110	1	–	–	–
5	370V 50+5 Mfd	1172111	–	1	–	–
5	370V 60+7.5 Mfd	1172294	–	–	1	–
5	370V 80+7.5 Mfd	1172296	–	–	–	1
6	Condenser Coil	1174970	1	1	–	–
6		1174971	–	–	1	–
6		1174972	–	–	–	1
7	Service Valve, Suction	1172725	1	–	–	–
7		1172726	–	1	–	–
7		1172727	–	–	1	1
8	Service Valve, Liquid	1172792	1	1	1	1
9	Plug, Compressor Harness	1172731	1	1	–	–
9		1172793	–	–	1	–
9		1172732	–	–	–	1
10	Grommet, Compressor	1171270	4	4	4	4
11	Bolt, Compressor Mounting	1173630	4	4	4	4
24	Drier	1172795	1	1	–	–
24		1172794	–	–	1	1
32	Raceway	1173651	1	1	–	–
32		1173664	–	–	1	1
33	Lug, Ground	1172300	1	1	1	1
35	Heater, Crankcase	1173944	–	–	1	1
36	Switch, Temp. CC Htr	1173669	–	–	1	1
) (	Harness, Wire Asy.	1172736	1	1	1	1
A	Panel, Top	1174955	1	1	–	–
A		1174956	–	–	1	1

– continued on next page –

N2A3**C PARTS LIST						
KEY NO.	DESCRIPTION	PART NO.	N2A324CKA100	N2A336CKA100	N2A348CKA100	N2A360CKA100
B	Nut, Hex	1172740	4	4	4	4
C	Grille, Inlet	1172751	1	1	–	–
C		1172752	–	–	1	–
C		1174088	–	–	–	1
D	Box, Control	1172753	1	1	1	1
E	Cover, Control Box	1174973	1	–	–	–
E		1174974	–	1	–	–
E		1174975	–	–	1	–
E		1174976	–	–	–	1
F	Panel, Service	1174952	1	1	1	–
F		1174953	–	–	–	1
G	Pan, Base	1174957	1	1	–	–
G		1174958	–	–	1	1
L	Guard, Fan	1172764	1	1	–	–
L		1172765	–	–	1	1
N	Support, Coil	1174068	5	5	5	5
P	Strap, Capacitor	1172734	1	1	–	–
P		1172735	–	–	1	1
) (	Screw, Gray Hex 10AB 3/8	1174676	14	14	14	14
) (	Screw, Gray Hex 10AB 1/2	1174677	12	12	12	12
) (	Screw, Gray Hex 12AB 5/8	1174678	4	4	4	4
) (	Manual, Installation	42101500001	1	1	1	1
) (	Manual, Owners	42102500000	1	1	1	1
) (	Warranty	40106401001	1	1	1	1

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	2	A	3	24	C	K	A	1	0	0
N = Heil Entry											
H = Heil Mainline BRANDING											
2 = R-22											
4 = R-410A REFRIGERANT											
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	0 1	01	C H	
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)									