

TECHNICAL SUPPORT MANUAL

Split System Air Conditioner

N2A0, 3-Phase

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

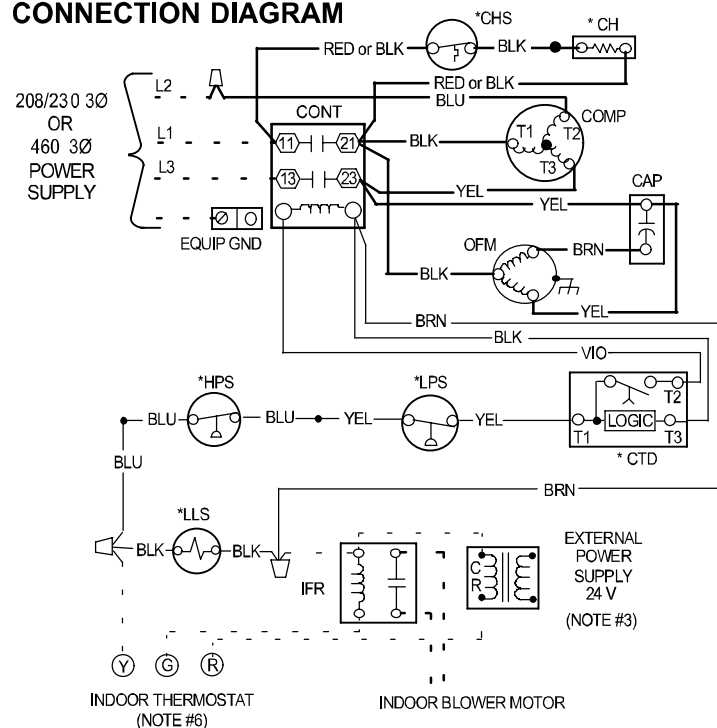
Failure to carefully read and follow this warning could result in equipment malfunction, property damage, personal injury and/or death.

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

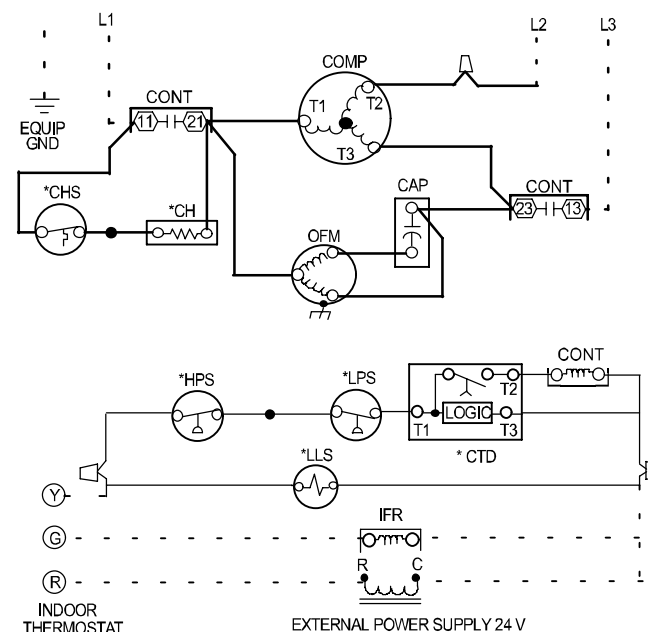
The information contained in this manual is intended for use by a qualified service technician familiar with safety procedures and equipped with the proper tools and test instruments.

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: 36, 42, 48, 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 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 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

		036 Size Outdoor With EB*2X36F** Indoor Cooling																			
		Outdoor Ambient Temperature - Degrees F, Dry Bulb																			
		75				85				95				105				115			
		Entering Indoor Temperature - Degrees F, Wet Bulb																			
CFM		57	62	67	72	57	62	67	72	57	62	67	72	57	62	67	72	57	62	67	72
1050	MBh†	32.25	33.14	36.33	39.49	30.82	31.39	34.58	38.05	29.30	29.54	32.60	36.23	27.65	27.61	30.44	34.14	25.92	25.92	28.13	31.85
	S/T‡	1.00	0.92	0.71	0.52	1.00	0.94	0.72	0.53	1.00	0.97	0.74	0.54	1.00	1.00	0.77	0.55	1.00	1.00	0.80	0.56
	AMPS*	13.20	13.30	13.71	14.14	14.08	14.19	14.63	15.13	14.93	14.98	15.58	16.15	15.77	15.76	16.52	17.20	16.68	16.68	17.27	18.27
	HI PR	210	212	219	228	241	242	250	260	274	275	284	295	310	310	320	332	350	350	358	372
	LO PR	69	70	76	82	72	73	79	85	74	75	81	88	78	78	83	90	81	81	86	93
1200	MBh†	33.63	34.00	36.92	39.93	32.17	32.29	35.19	38.54	30.58	30.56	33.20	36.76	28.86	28.86	31.02	34.66	27.05	27.05	28.64	32.33
	S/T‡	1.00	0.96	0.73	0.54	1.00	0.98	0.75	0.55	1.00	1.00	0.78	0.56	1.00	1.00	0.80	0.57	1.00	1.00	0.84	0.59
	AMPS*	13.63	13.68	14.05	14.46	14.57	14.58	14.98	15.47	15.52	15.52	15.95	16.51	16.37	16.37	16.93	17.57	17.28	17.28	17.72	18.64
	HI PR	213	214	221	230	245	245	253	262	279	279	286	297	315	315	323	335	355	355	360	375
	LO PR	72	72	78	83	75	75	80	86	77	77	82	89	81	81	85	92	84	84	87	94
1350	MBh†	34.73	34.77	37.34	40.23	33.27	33.26	35.65	38.88	31.64	31.64	33.66	37.12	29.89	29.88	31.47	35.03	27.98	27.97	29.05	32.67
	S/T‡	1.00	0.99	0.76	0.55	1.00	1.00	0.78	0.56	1.00	1.00	0.81	0.57	1.00	1.00	0.84	0.59	1.00	1.00	0.88	0.61
	AMPS*	14.03	14.04	14.37	14.77	14.98	14.98	15.32	15.79	15.98	15.98	16.29	16.84	16.97	16.97	17.29	17.90	17.84	17.84	18.14	18.98
	HI PR	216	217	223	231	248	248	254	264	282	282	288	299	320	320	325	337	359	359	363	377
	LO PR	74	74	79	84	77	77	81	87	80	80	84	90	83	83	86	93	86	86	88	95

† 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) +

$$\left(\frac{ (\text{Indoor db} - 80) \times 835 \times \text{Indoor CFM} }{1000} \right)$$

		042 Size Outdoor With EB*2X42J** Indoor Cooling																			
		Outdoor Ambient Temperature - Degrees F, Dry Bulb																			
		75				85				95				105				115			
		Entering Indoor Temperature - Degrees F, Wet Bulb																			
CFM		57	62	67	72	57	62	67	72	57	62	67	72	57	62	67	72	57	62	67	72
1225	MBh†	38.67	40.35	44.43	48.20	36.84	38.07	42.24	46.31	34.96	35.70	39.70	44.07	33.06	33.35	37.03	41.51	31.07	31.03	34.36	38.79
	S/T‡	1.00	0.88	0.68	0.51	1.00	0.91	0.70	0.52	1.00	0.94	0.72	0.53	1.00	0.97	0.74	0.54	1.00	1.00	0.76	0.55
	AMPS*	16.10	16.29	16.78	17.29	17.09	17.35	17.92	18.51	18.05	18.22	19.03	19.69	19.02	19.09	20.02	20.84	19.97	19.96	20.87	21.92
	HI PR	202	204	209	216	232	234	240	247	266	267	273	281	302	302	309	317	341	341	347	355
	LO PR	66	68	74	79	68	70	76	82	72	73	79	85	75	75	81	88	78	78	83	90
1400	MBh†	40.47	41.43	45.25	48.83	38.62	39.22	43.06	46.99	36.61	36.79	40.50	44.75	34.58	34.55	37.78	42.21	32.49	32.49	35.03	39.44
	S/T‡	1.00	0.92	0.71	0.52	1.00	0.95	0.72	0.53	1.00	0.98	0.75	0.54	1.00	1.00	0.77	0.55	1.00	1.00	0.80	0.57
	AMPS*	16.61	16.72	17.19	17.68	17.74	17.82	18.34	18.92	18.76	18.80	19.46	20.11	19.74	19.73	20.53	21.27	20.70	20.70	21.40	22.37
	HI PR	204	205	211	218	235	236	242	249	269	269	275	283	305	305	310	319	344	344	349	357
	LO PR	68	70	75	80	71	72	78	83	74	75	80	86	78	77	83	89	81	81	85	92
1575	MBh†	41.91	42.35	45.84	49.29	40.06	40.19	43.67	47.47	38.00	37.96	41.15	45.25	35.85	35.84	38.39	42.73	33.67	33.67	35.59	39.92
	S/T‡	1.00	0.95	0.73	0.54	1.00	0.98	0.75	0.55	1.00	1.00	0.78	0.56	1.00	1.00	0.81	0.57	1.00	1.00	0.84	0.59
	AMPS*	17.08	17.13	17.57	18.06	18.24	18.25	18.73	19.30	19.40	19.39	19.86	20.50	20.40	20.39	20.94	21.68	21.37	21.37	21.91	22.78
	HI PR	206	207	213	220	237	238	243	251	271	271	276	284	307	307	312	320	347	347	350	359
	LO PR	71	71	76	81	74	74	79	85	77	77	81	88	80	80	84	91	83	83	86	93

† 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

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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.)

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

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

		048 Size Outdoor With EB*2X48J** Indoor Cooling																			
		Outdoor Ambient Temperature - Degrees F, Dry Bulb																			
		75				85				95				105				115			
		Entering Indoor Temperature - Degrees F, Wet Bulb																			
CFM		57	62	67	72	57	62	67	72	57	62	67	72	57	62	67	72	57	62	67	72
1400	MBh†	44.05	45.50	49.91	54.22	42.38	43.43	47.96	52.53	40.62	41.26	45.65	50.52	38.82	39.06	43.20	48.12	36.90	36.88	40.68	45.62
	S/T‡	1.00	0.91	0.70	0.52	1.00	0.93	0.71	0.53	1.00	0.95	0.73	0.53	1.00	0.98	0.75	0.54	1.00	1.00	0.77	0.55
	AMPS*	16.83	16.92	17.31	17.79	18.37	18.54	18.95	19.45	20.04	20.14	20.75	21.26	21.86	21.90	22.64	23.21	23.81	23.80	24.54	25.32
	HI PR	202	203	209	216	234	236	241	248	270	270	276	283	308	308	314	321	349	349	355	363
	LO PR	68	70	77	83	70	72	78	85	73	74	80	87	75	75	82	89	77	77	83	91
1600	MBh†	45.95	46.63	50.79	54.96	44.25	44.63	48.84	53.30	42.41	42.47	46.50	51.29	40.50	40.49	44.03	48.90	38.50	38.50	41.45	46.35
	S/T‡	1.00	0.95	0.73	0.54	1.00	0.97	0.74	0.54	1.00	0.99	0.76	0.55	1.00	1.00	0.78	0.56	1.00	1.00	0.81	0.57
	AMPS*	17.29	17.35	17.74	18.22	18.97	18.99	19.38	19.89	20.69	20.70	21.17	21.70	22.51	22.51	23.11	23.65	24.48	24.47	25.07	25.76
	HI PR	204	205	211	218	237	237	243	250	272	272	277	285	311	311	315	323	352	352	356	364
	LO PR	72	73	78	85	74	74	80	87	76	76	82	89	78	78	83	91	80	80	85	93
1800	MBh†	47.45	47.60	51.39	55.45	45.80	45.76	49.46	53.82	43.89	43.88	47.17	51.82	41.89	41.88	44.64	49.48	39.83	39.82	42.03	46.86
	S/T‡	1.00	0.98	0.76	0.55	1.00	1.00	0.77	0.56	1.00	1.00	0.79	0.57	1.00	1.00	0.82	0.58	1.00	1.00	0.84	0.59
	AMPS*	17.75	17.77	18.14	18.63	19.43	19.43	19.78	20.30	21.26	21.26	21.57	22.12	23.13	23.13	23.52	24.07	25.11	25.11	25.57	26.17
	HI PR	206	207	212	219	239	239	244	252	274	274	279	287	313	313	317	325	355	355	358	366
	LO PR	74	74	80	86	76	76	82	88	78	78	83	90	81	81	85	92	83	83	86	94

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

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

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^ 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.)

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

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

		060 Size Outdoor With EB*2X60L** Indoor Cooling																			
		Outdoor Ambient Temperature - Degrees F, Dry Bulb																			
		75				85				95				105				115			
		Entering Indoor Temperature - Degrees F, Wet Bulb																			
CFM		57	62	67	72	57	62	67	72	57	62	67	72	57	62	67	72	57	62	67	72
1750	MBh†	53.76	55.63	61.02	66.41	51.75	53.11	58.69	64.39	49.67	50.52	55.87	61.97	47.48	47.88	52.99	59.09	45.14	45.08	49.91	56.06
	S/T‡	1.00	0.90	0.70	0.52	1.00	0.92	0.71	0.53	1.00	0.95	0.72	0.53	1.00	0.97	0.74	0.54	1.00	1.00	0.76	0.55
	AMPS*	20.31	20.42	20.83	21.40	22.31	22.52	22.98	23.56	24.48	24.63	25.33	25.92	26.89	26.95	27.83	28.47	29.42	29.41	30.31	31.22
	HI PR	207	209	214	222	240	241	247	255	276	277	283	291	315	316	322	330	357	357	364	372
	LO PR	66	68	75	81	68	70	76	83	71	72	78	85	73	73	80	87	76	75	81	89
2000	MBh†	56.13	57.06	62.14	67.37	54.06	54.59	59.82	65.38	51.84	51.98	57.00	62.96	49.60	49.59	54.07	60.08	47.16	47.16	50.90	57.01
	S/T‡	1.00	0.94	0.73	0.53	1.00	0.97	0.74	0.54	1.00	0.99	0.76	0.55	1.00	1.00	0.78	0.56	1.00	1.00	0.80	0.57
	AMPS*	20.83	20.89	21.32	21.92	23.02	23.06	23.46	24.08	25.25	25.27	25.81	26.45	27.66	27.66	28.36	28.98	30.22	30.22	30.95	31.73
	HI PR	209	210	216	224	243	243	249	257	279	279	285	293	318	318	324	332	361	361	366	374
	LO PR	69	71	76	82	72	72	78	85	74	74	80	87	76	76	82	89	79	79	83	91
2250	MBh†	58.02	58.28	62.91	68.03	55.99	55.93	60.63	66.06	53.70	53.69	57.85	63.65	51.36	51.35	54.87	60.79	48.84	48.83	51.66	57.68
	S/T‡	1.00	0.98	0.75	0.55	1.00	1.00	0.77	0.55	1.00	1.00	0.79	0.56	1.00	1.00	0.81	0.58	1.00	1.00	0.84	0.59
	AMPS*	21.35	21.37	21.79	22.40	23.54	23.54	23.93	24.57	25.94	25.94	26.28	26.94	28.39	28.39	28.83	29.47	30.97	30.97	31.54	32.22
	HI PR	212	212	218	225	245	245	250	259	281	281	286	295	321	321	325	334	363	363	367	376
	LO PR	72	72	78	84	74	74	80	86	77	76	81	88	79	79	83	90	81	81	85	92

† 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

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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 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)
N2A036											
>EB*2X36F**		1.00	1.00	EX*42J****	*8MPV100	1.02	0.92	ED*2X42J**		1.02	0.97
EMH36F****		0.96	0.94	EX*42J****	*8MPV125	1.02	0.91	ED*2X42J**	*8MPV100	1.02	0.91
EMH42F****		0.99	0.94	EX*42J****	*9MPV100	1.02	0.95	ED*2X42J**	*8MPV125	1.02	0.90
EP*36B****		0.94	0.92	EX*42J****	MV16J22****	1.02	0.89	ED*2X42J**	*9MPV100	1.02	0.93
EP*36B****	MV08B15****	0.96	0.92	EBP36****		1.00	0.97	ED*2X42J**	MV16J22****	1.02	0.88
EP*36F****		0.96	0.94	EBP42****		1.02	0.97	ED*2X42L**		1.02	0.97
EP*36F****	*8MPV075	0.96	0.93	EBV36****		1.00	0.90	ED*2X42L**	*9MPV125	1.02	0.93
EP*36F****	*9MPV075	0.96	0.94	EBV48****		1.05	0.91	EMA2X36D**		1.00	0.95
EP*36F****	MV12F19****	0.98	0.91	EBV60****		1.07	0.92	EHD2X36A**		1.00	0.93
EP*36J****		0.96	0.94	EBX36****		1.00	0.96	EHD2X36A**	*8MPV050	1.00	0.96
EP*36J****	*8MPV100	0.97	0.91	EB*2X36B**		1.00	0.94	EHD2X36A**	*8MPV075	1.00	0.91
EP*36J****	*8MPV125	0.97	0.90	EB*2X36B**	*8MPV050	1.00	0.98	EHD2X36A**	*8MPV100	1.00	0.89
EP*36J****	*9MPV100	0.96	0.93	EB*2X36B**	MV08B15****	1.00	0.91	EHD2X36A**	*8MPV125	1.00	0.88
EP*36J****	MV16J22****	0.98	0.88	EB*2X36F**	*8MPV075	1.00	0.92	EHD2X36A**	*9MPV050	1.00	0.96
EP*42F****		0.99	0.94	EB*2X36F**	*9MPV050	1.00	0.97	EHD2X36A**	*9MPV075	1.00	0.93
EP*42F****	*8MPV075	1.00	0.94	EB*2X36F**	*9MPV075	1.00	0.94	EHD2X36A**	*9MPV100	1.00	0.91
EP*42F****	*9MPV075	0.99	0.96	EB*2X36F**	MV12F19****	1.00	0.90	EHD2X36A**	*9MPV125	1.00	0.90
EP*42F****	MV12F19****	1.01	0.92	EB*2X36J**		1.00	0.95	EHD2X36A**	MV08B15****	1.00	0.89
EP*42J****		1.00	0.96	EB*2X36J**	*8MPV100	1.00	0.90	EHD2X36A**	MV12F19****	1.00	0.88
EP*42J****	*8MPV100	0.99	0.94	EB*2X36J**	*8MPV125	1.00	0.89	EHD2X36A**	MV16J22****	1.00	0.85
EP*42J****	*8MPV125	0.98	0.92	EB*2X36J**	*9MPV100	1.00	0.89	EHD2X36A**	MV20N26****	1.00	0.86
EP*42J****	*9MPV100	0.99	0.96	EB*2X36J**	MV16J22****	1.00	0.87	EHD2X42A**		1.02	0.95
EP*42J****	MV16J22****	0.98	0.90	EB*2X42J**		1.02	0.97	EHD2X42A**	*8MPV050	1.02	0.98
EX*36B****		1.00	0.94	EB*2X42J**	*8MPV100	1.02	0.91	EHD2X42A**	*8MPV075	1.02	0.92
EX*36B****	*8MPV050	1.00	0.98	EB*2X42J**	*8MPV125	1.02	0.90	EHD2X42A**	*8MPV100	1.02	0.90
EX*36B****	MV08B15****	1.00	0.91	EB*2X42J**	*9MPV100	1.02	0.91	EHD2X42A**	*8MPV125	1.02	0.90
EX*36F****		1.00	0.94	EB*2X42J**	MV16J22****	1.02	0.88	EHD2X42A**	*9MPV050	1.02	0.97
EX*36F****	*8MPV075	1.00	0.93	EB*2X42L**		1.02	0.97	EHD2X42A**	*9MPV075	1.02	0.94
EX*36F****	*9MPV050	1.00	0.98	EB*2X42L**	*9MPV125	1.02	0.93	EHD2X42A**	*9MPV100	1.02	0.93
EX*36F****	*9MPV075	1.00	0.95	ED*2X36B**		1.00	0.94	EHD2X42A**	*9MPV125	1.02	0.92
EX*36F****	MV12F19****	1.00	0.90	ED*2X36B**	*8MPV050	1.00	0.98	EHD2X42A**	MV08B15****	1.02	0.91
EX*36J****		1.02	0.96	ED*2X36B**	MV08B15****	1.00	0.91	EHD2X42A**	MV12F19****	1.02	0.90

> 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)
EX*36J****	*8MPV100	1.00	0.91	ED*2X36F**		1.00	0.95	EHD2X42A**	MV16J22****	1.02	0.87
EX*36J****	*8MPV125	1.00	0.90	ED*2X36F**	*8MPV075	1.00	0.92	EHD2X42A**	MV20N26****	1.02	0.87
EX*36J****	*9MPV100	1.00	0.95	ED*2X36F**	*9MPV050	1.00	0.97	FSU2X36****		1.00	0.96
EX*36J****	MV16J22****	1.00	0.87	ED*2X36F**	*9MPV075	1.00	0.94	FS(M,U)2X42***		1.02	0.97
EX*42F****		1.02	0.96	ED*2X36F**	MV12F19****	1.00	0.90	FSM2X36****		1.01	0.94
EX*42F****	*8MPV075	1.02	0.94	ED*2X36J**		1.00	0.95	FEM2X36****		1.01	0.89
EX*42F****	*9MPV050	1.02	0.99	ED*2X36J**	*8MPV100	1.00	0.90	FEM2X42****		1.01	0.88
EX*42F****	*9MPV075	1.02	0.96	ED*2X36J**	*8MPV125	1.00	0.89	FSA2X36****		1.00	0.95
EX*42F****	MV12F19****	1.02	0.91	ED*2X36J**	*9MPV100	1.00	0.91				
EX*42J****		1.02	0.96	ED*2X36J**	MV16J22****	1.00	0.87				
N2A042											
>EB*2X42J**		1.00	1.00	EX*48L****		1.01	1.02	ED*2X48F**		1.01	0.95
EMH42F****		0.96	0.93	EX*48L****	*9MPV125	1.01	0.95	ED*2X48F**	*8MPV075	1.01	0.96
EMH48F****		1.01	0.97	EX*48N****		1.01	0.96	ED*2X48F**	*9MPV075	1.01	0.97
EP*42F****		0.96	0.93	EX*48N****	MV20N26****	1.01	0.92	ED*2X48J**		1.01	0.95
EP*42F****	*8MPV075	1.00	0.99	EBP42****		1.00	0.97	ED*2X48J**	*8MPV100	1.01	0.93
EP*42F****	*9MPV075	0.99	0.99	EBP48****		1.01	0.97	ED*2X48J**	*8MPV125	1.01	0.92
EP*42J****		0.99	0.96	EBV36****		1.00	0.98	ED*2X48J**	*9MPV100	1.01	0.96
EP*42J****	*8MPV100	0.99	0.96	EBV48****		1.04	0.91	ED*2X48J**	MV16J22****	1.01	0.89
EP*42J****	*8MPV125	0.98	0.94	EBV60****		1.06	0.92	ED*2X48L**		1.01	0.95
EP*42J****	*9MPV100	0.99	0.99	EBX48****		1.02	0.97	ED*2X48L**	*9MPV125	1.01	0.94
EP*42J****	MV16J22****	0.99	0.93	EB*2X42J**	*8MPV100	1.00	0.92	EMA2X48D**		1.01	0.96
EP*48F****		1.01	0.97	EB*2X42J**	*8MPV125	1.00	0.91	EHD2X42A**		1.00	0.94
EP*48F****	*8MPV075	1.01	0.99	EB*2X42J**	*9MPV100	1.00	0.96	EHD2X42A**	*8MPV075	1.00	0.94
EP*48F****	*9MPV075	1.00	0.99	EB*2X42J**	MV16J22****	1.00	0.89	EHD2X42A**	*8MPV100	1.00	0.91
EP*48J****		1.01	0.97	EB*2X42L**		1.00	0.95	EHD2X42A**	*8MPV125	1.00	0.90
EP*48J****	*8MPV100	1.01	0.95	EB*2X42L**	*9MPV125	1.00	0.94	EHD2X42A**	*9MPV075	1.00	0.96
EP*48J****	*8MPV125	1.01	0.93	EB*2X48F**		1.01	0.95	EHD2X42A**	*9MPV100	1.00	0.94
EP*48J****	*9MPV100	1.01	0.98	EB*2X48F**	*8MPV075	1.01	0.96	EHD2X42A**	*9MPV125	1.00	0.93
EP*48J****	MV16J22****	1.01	0.91	EB*2X48F**	*9MPV075	1.01	0.97	EHD2X42A**	MV16J22****	1.00	0.88
EP*48L****		1.01	0.97	EB*2X48J**		1.01	0.95	EHD2X42A**	MV20N26****	1.00	0.90
EP*48L****	*9MPV125	1.01	0.96	EB*2X48J**	*8MPV100	1.01	0.93	EHD2X48A**		1.01	0.95
EP*48N****		1.01	0.97	EB*2X48J**	*8MPV125	1.01	0.92	EHD2X48A**	*8MPV075	1.01	0.95
EP*48N****	MV20N26****	1.01	0.93	EB*2X48J**	*9MPV100	1.01	0.96	EHD2X48A**	*8MPV100	1.01	0.92

> 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)
EX*42F****		1.00	0.94	EB*2X48J**	MV16J22****	1.01	0.89	EHD2X48A**	*8MPV125	1.01	0.91
EX*42F****	*8MPV075	1.00	0.96	EB*2X48L**		1.01	0.95	EHD2X48A**	*9MPV075	1.01	0.97
EX*42F****	*9MPV075	1.00	0.98	EB*2X48L**	*9MPV125	1.01	0.94	EHD2X48A**	*9MPV100	1.01	0.95
EX*42J****		1.00	0.94	ED*2X42J**		1.00	0.95	EHD2X48A**	*9MPV125	1.01	0.93
EX*42J****	*8MPV100	1.00	0.93	ED*2X42J**	*8MPV100	1.00	0.92	EHD2X48A**	MV16J22****	1.01	0.89
EX*42J****	*8MPV125	1.00	0.92	ED*2X42J**	*8MPV125	1.00	0.91	EHD2X48A**	MV20N26****	1.01	0.91
EX*42J****	*9MPV100	1.00	0.96	ED*2X42J**	*9MPV100	1.00	0.96	FS(M,U)2X42***		1.00	0.96
EX*42J****	MV16J22****	1.00	0.90	ED*2X42J**	MV16J22****	1.00	0.89	FS(M,U)2X48***		1.01	0.95
EX*48J****		1.01	0.96	ED*2X42L**		1.00	0.95	FEM2X42****		1.00	0.91
EX*48J****	*9MPV125	1.01	0.95	ED*2X42L**	*9MPV125	1.00	0.94	FEM2X48****		1.02	0.90
N2A048											
>EB*2X48J**		1.00	1.00	EX*60N****		1.02	0.99	ED*2X48L**	*9MPV125	1.00	0.99
EMH48F****		0.95	0.94	EX*60N****	MV20N26****	1.02	0.94	ED*2X60J**		1.02	0.99
EP*48F****		0.94	0.94	EBP48****		1.00	1.01	ED*2X60J**	*8MPV100	1.02	0.98
EP*48J****		0.96	0.96	EBP60****		1.02	1.03	ED*2X60J**	*8MPV125	1.02	0.96
EP*48J****	*8MPV100	0.97	0.97	EBV48****		1.01	0.96	ED*2X60J**	*9MPV100	1.02	1.01
EP*48J****	*8MPV125	0.97	0.95	EBV60****		1.03	0.95	ED*2X60J**	MV16J22****	1.02	0.94
EP*48J****	*9MPV100	0.97	1.00	EBX48****		1.01	1.00	ED*2X60L**		1.02	0.99
EP*48J****	MV16J22****	0.98	0.94	EBX60****		1.03	1.01	ED*2X60L**	*9MPV125	1.02	1.00
EP*48L****		0.96	0.96	EB*2X48F**		1.00	0.97	EMA2X48D**		0.98	0.96
EP*48L****	*9MPV125	0.98	1.00	EB*2X48J**	*8MPV100	1.00	0.97	EHD2X48A**		1.00	0.97
EP*48N****		0.96	0.96	EB*2X48J**	*8MPV125	1.00	0.96	EHD2X48A**	*8MPV100	1.00	0.97
EP*48N****	MV20N26****	0.99	0.95	EB*2X48J**	*9MPV100	1.00	1.01	EHD2X48A**	*8MPV125	1.00	0.96
EP*60J****		0.99	0.98	EB*2X48J**	MV16J22****	1.00	0.94	EHD2X48A**	*9MPV100	1.00	1.01
EP*60J****	*8MPV100	0.99	0.97	EB*2X48L**		1.00	0.98	EHD2X48A**	*9MPV125	1.00	0.99
EP*60J****	*8MPV125	0.99	0.95	EB*2X48L**	*9MPV125	1.00	0.99	EHD2X48A**	MV16J22****	1.00	0.93
EP*60J****	*9MPV100	0.99	1.01	EB*2X60J**		1.02	0.99	EHD2X48A**	MV20N26****	1.00	0.93
EP*60J****	MV16J22****	1.00	0.95	EB*2X60J**	*8MPV100	1.02	0.98	EHD2X60A**		1.02	0.99
EP*60L****		0.99	0.98	EB*2X60J**	*8MPV125	1.02	0.96	EHD2X60A**	*8MPV100	1.02	0.97
EP*60L****	*9MPV125	0.99	0.99	EB*2X60J**	*9MPV100	1.02	1.01	EHD2X60A**	*8MPV125	1.02	0.96
EP*60N****		0.99	0.98	EB*2X60J**	MV16J22****	1.02	0.94	EHD2X60A**	*9MPV100	1.02	1.01
EP*60N****	MV20N26****	1.01	0.95	EB*2X60L**		1.02	0.99	EHD2X60A**	*9MPV125	1.02	0.99
EX*48J****		0.98	0.97	EB*2X60L**	*9MPV125	1.02	1.00	EHD2X60A**	MV16J22****	1.02	0.93

> Indicates Tested Indoor Model

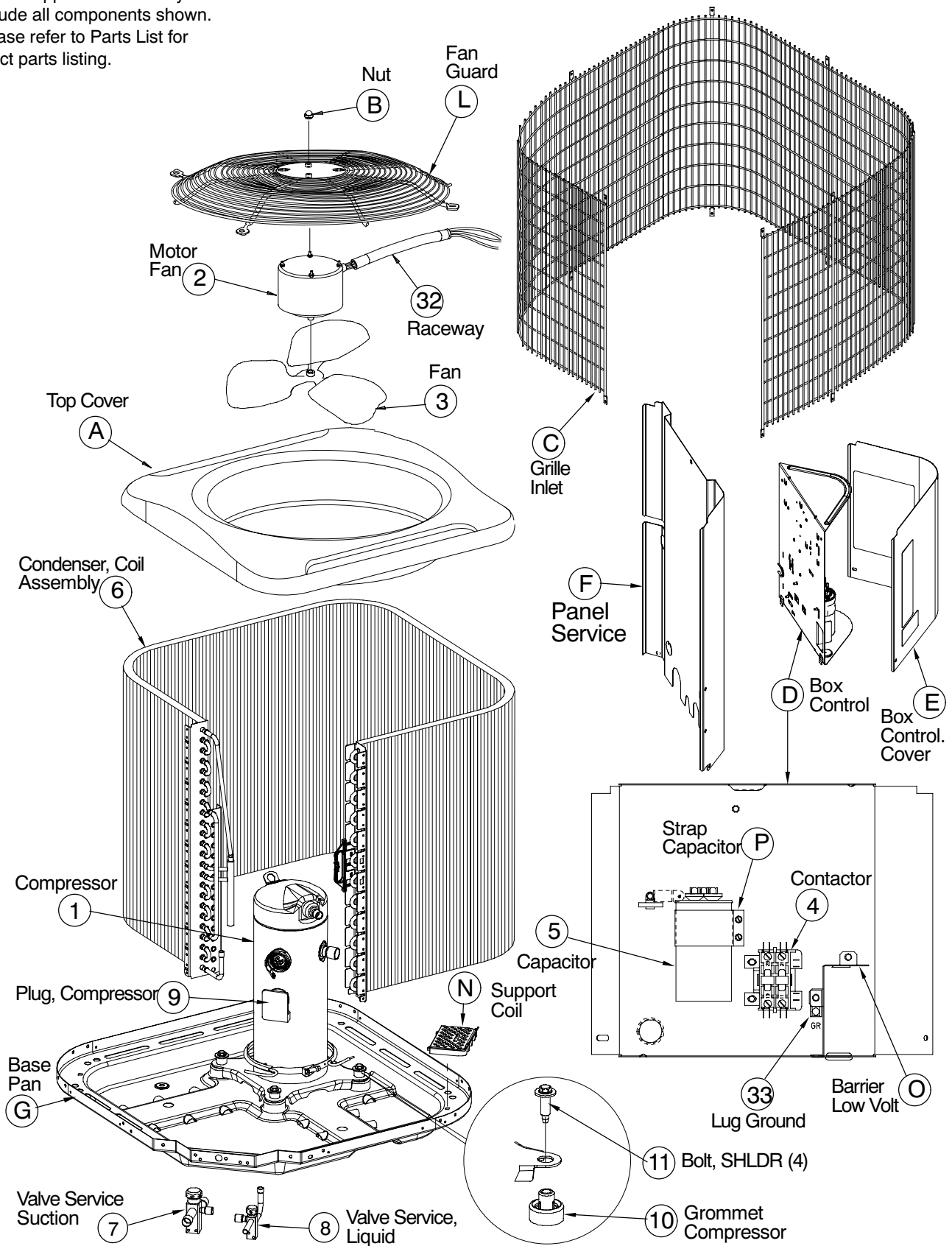
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COOLING Multiplying Factors for other Indoor Combinations (continued)

Indoor Model	Furnace Model	Capac. (MBh)	Power (AMPS)	Indoor Model	Furnace Model	Capac. (MBh)	Power (AMPS)	Indoor Model	Furnace Model	Capac. (MBh)	Power (AMPS)
EX*48J****	*9MPV125	0.99	1.00	ED*2X48F**		1.00	0.97	EHD2X60A**	MV20N26****	1.02	0.93
EX*48L****		0.98	0.97	ED*2X48J**		1.00	0.98	FS(M,U)2X48***		1.00	0.99
EX*48L****	*9MPV125	0.99	1.00	ED*2X48J**	*8MPV100	1.00	0.97	FS(M,U)2X60***		1.02	1.00
EX*48N****		0.98	0.97	ED*2X48J**	*8MPV125	1.00	0.96	FEM2X48****		1.01	0.94
EX*48N****	MV20N26****	1.00	0.95	ED*2X48J**	*9MPV100	1.00	1.01	FEM2X60****		1.03	0.93
EX*60L****		1.02	0.99	ED*2X48J**	MV16J22****	1.00	0.94				
EX*60L****	*9MPV125	1.02	1.00	ED*2X48L**		1.00	0.98				
N2A060											
>EB*2X60L**		1.00	1.00	EX*60N****	MV20N26****	1.00	1.00	ED*2X60J**	*9MPV100	1.00	1.08
EP*60J****		1.00	1.04	EBP60****		1.00	1.05	ED*2X60J**	MV16J22****	1.00	1.01
EP*60J****	*8MPV100	1.00	1.12	EBV60****		1.00	1.01	ED*2X60L**		1.00	1.00
EP*60J****	*8MPV125	1.00	1.10	EBX60****		1.00	1.02	ED*2X60L**	*9MPV125	1.00	1.02
EP*60J****	*9MPV100	1.00	1.13	EB*2X60J**		1.00	0.99	EHD2X60A**		1.00	1.00
EP*60J****	MV16J22****	1.00	1.06	EB*2X60J**	*8MPV100	1.00	1.07	EHD2X60A**	*8MPV100	1.00	1.06
EP*60L****		1.00	1.04	EB*2X60J**	*8MPV125	1.00	1.04	EHD2X60A**	*8MPV125	1.00	1.04
EP*60L****	*9MPV125	1.00	1.07	EB*2X60J**	*9MPV100	1.00	1.08	EHD2X60A**	*9MPV100	1.00	1.08
EP*60N****		1.00	1.04	EB*2X60J**	MV16J22****	1.00	1.01	EHD2X60A**	*9MPV125	1.00	1.01
EP*60N****	MV20N26****	1.00	1.04	EB*2X60L**	*9MPV125	1.00	1.02	EHD2X60A**	MV16J22****	1.00	1.01
EX*60L****		1.00	0.99	ED*2X60J**		1.00	0.99	EHD2X60A**	MV20N26****	1.00	0.99
EX*60L****	*9MPV125	1.00	1.02	ED*2X60J**	*8MPV100	1.00	1.07	FS(M,U)2X60***		1.02	1.05
EX*60N****		1.00	0.99	ED*2X60J**	*8MPV125	1.00	1.04	FEM2X60****		1.03	1.01

> 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.



N2A0 PARTS LIST										
KEY NO.	DESCRIPTION	PART NO.	N2A036AHA200	N2A036ALA200	N2A042AHA200	N2A042ALA200	N2A048AHA200	N2A048ALA200	N2A060AHA200	N2A060ALA200
1	Compressor	CR28K6TF5130	-	-	-	-	-	-	-	-
1		CR32K6TF5130	1	-	-	-	-	-	-	-
1		CR32K6TFD130	-	1	-	-	-	-	-	-
1		CR42K6TF5130	-	-	1	-	-	-	-	-
1		CR42K6TFD130	-	-	-	1	-	-	-	-
1		ZR47KCTF5135	-	-	-	-	1	-	-	-
1		ZR47KCTFD135	-	-	-	-	-	1	-	-
1		ZR61K3TF5130	-	-	-	-	-	-	1	-
1		ZR61K3TFD130	-	-	-	-	-	-	-	1
2	Motor, Condenser Fan	1174750	-	-	-	-	-	-	-	-
2		1174752	1	-	1	-	1	-	-	-
2		1174753	-	1	-	1	-	1	-	1
2		1174751	-	-	-	-	-	-	1	-
3	Fan Blade	1174760	-	-	-	-	-	-	-	-
3		1172165	1	1	1	1	1	1	-	-
3		1174761	-	-	-	-	-	-	1	1
4	Contactor, 30 Amp	1174754	1	1	1	1	1	1	-	-
4	30 Amp	1174759	-	-	-	-	-	-	1	1
5	Capacitor 370V 5 Mfd	1171727	1	-	1	-	1	-	1	-
5	370V 7.5 Mfd	1171728	-	1	-	1	-	1	-	1
6	Condenser Coil	1174070	-	-	-	-	-	-	-	-
6		1174771	1	1	-	-	-	-	-	-
6		1174772	-	-	1	1	-	-	-	-
6		1174774	-	-	-	-	1	1	-	-
6		1174773	-	-	-	-	-	-	1	1
7	Service Valve, Suction	1174766	1	1	-	-	-	-	-	-
7		1174767	-	-	1	1	1	1	1	1
8	Service Valve, Liquid	1174765	1	1	1	1	1	1	1	1
9	Plug, Compressor Harness	1174780	-	-	-	-	-	-	-	-
9		1174781	1	1	1	1	1	1	-	-
9		1174782	-	-	-	-	-	-	1	1
10	Grommet, Compressor	1171270	4	4	4	4	4	4	4	4
11	Bolt, Compressor Mounting	1173630	4	4	4	4	4	4	4	4
32	Raceway	1173642	-	-	-	-	-	-	-	-
32		1173651	1	1	1	1	-	-	-	-
32		1173664	-	-	-	-	1	1	1	1
33	Lug, Ground	1172300	1	1	1	1	1	1	1	1
)	Piston .067	1057899	-	-	-	-	-	-	-	-
)	.070	1053644	1	1	-	-	-	-	-	-
)	.082	1092222	-	-	1	1	1	1	-	-
)	.082	1092222	-	-	-	-	-	-	1	1
A	Panel, Top	1174787	1	1	1	1	1	1	-	-
A		1174788	-	-	-	-	-	-	1	1
B	Nut, Hex	1172740	4	4	4	4	4	4	4	4
C	Grille, Inlet	1174775	-	-	-	-	-	-	-	-
C		1174776	1	1	-	-	-	-	-	-

- continued on next page -

N2A0 PARTS LIST (continued)										
KEY NO.	DESCRIPTION	PART NO.	N2A036AHA200	N2A036ALA200	N2A042AHA200	N2A042ALA200	N2A048AHA200	N2A048ALA200	N2A060AHA200	N2A060ALA200
C		1174777	-	-	1	1	-	-	-	-
C		1174778	-	-	-	-	1	1	-	-
C		1174779	-	-	-	-	-	-	1	1
D	Box, Control	1174763	1	1	1	1	1	1	1	1
E	Cover, Control Box	1174791	1	1	1	1	1	1	1	1
F	Panel, Service	1174783	-	-	-	-	-	-	-	-
F		1174784	1	1	-	-	-	-	-	-
F		1174785	-	-	1	1	-	-	1	1
F		1174786	-	-	-	-	1	1	-	-
G	Pan, Base	1174790	1	1	1	1	1	1	-	-
G		1174789	-	-	-	-	-	-	1	1
L	Guard, Fan	1174792	1	1	1	1	1	1	-	-
L		1174793	-	-	-	-	-	-	1	1
N	Pad, Coil	1174768	3	3	3	3	3	3	3	3
O	Barrier, Low Voltage	1174764	1	1	1	1	1	1	1	1
P	Strap, Capacitor	1174073	1	1	1	1	1	1	1	1
)	Manual, Installation	50101280100	1	1	1	1	1	1	1	1
)	Warranty	40106403402	1	1	1	1	1	1	1	1

OUTDOOR UNIT MODEL NUMBER IDENTIFICATION GUIDE (3-Phase)											
Digit Position:	1	2	3	4	5, 6	7	8	9	10	11	12
Example Part Number:	N	2	A	0	36	A	H	A	1	0	0
Product Family	BRANDING										
2 = R-22	REFRIGERANT										
A = Air Conditioner											
H = Heat Pump			TYPE								
0 = 10 SEER			NOMINAL EFFICIENCY								
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						FEATURES					
G = Coil Guard Grille											
H = 208/230-3-60											
L = 460-3-60							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)									