

TECHNICAL SUPPORT MANUAL

Split System Air Conditioner

H2A3, 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:



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.

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MODELS

- H2A336G*D200
 - H2A342G*D200
 - H2A348G*D200
 - H2A360G*D300
- * = H or L

WARNING

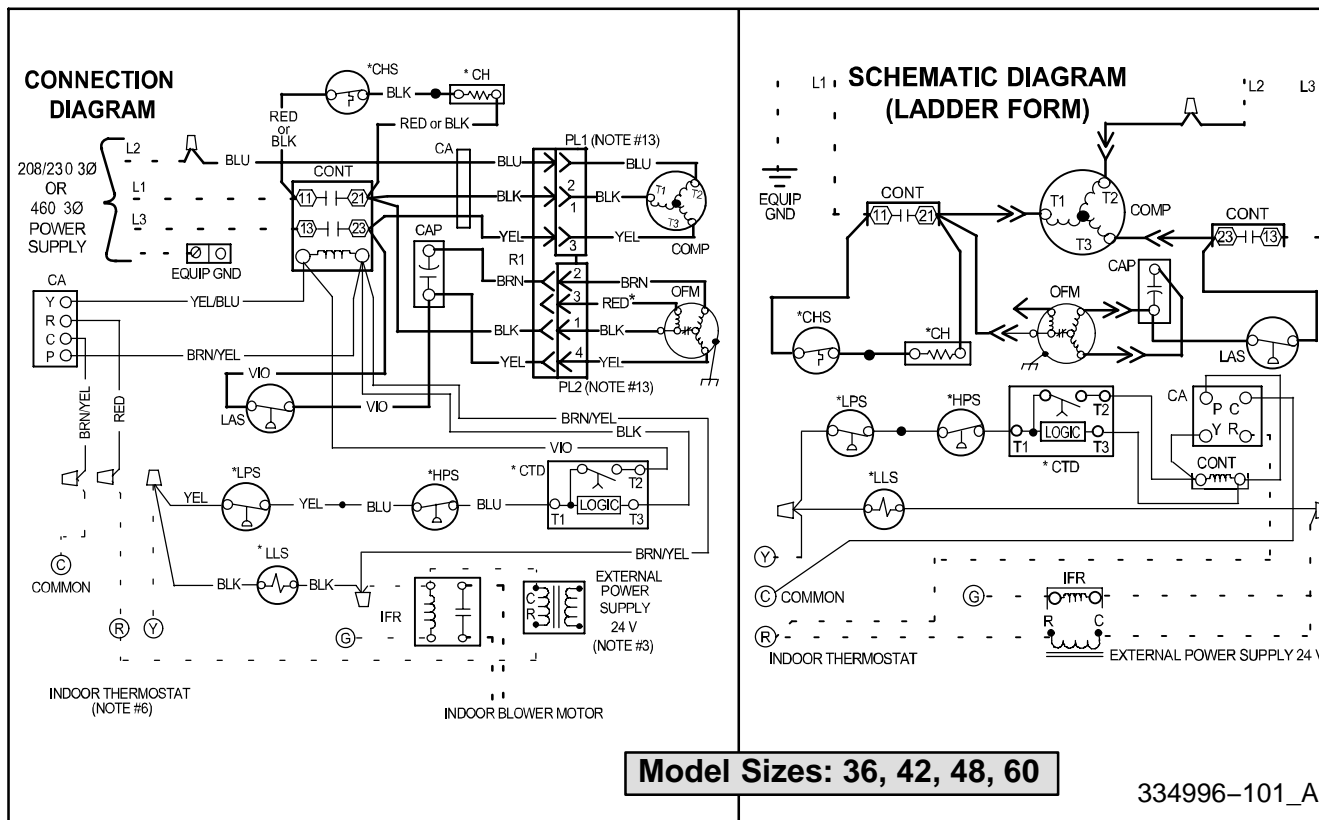
DEATH, PERSONAL INJURY, AND/OR PROPERTY DAMAGE HAZARD

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.

**-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 CAPACITOR
*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 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. It is imperative to connect 3-phase field power to unit with correct phasing. If phasing is reversed, interchange any two of the three power connections on field side.
15. Wire not present if HPS, LPS or CTD are used.
16. Not for interrupting current.

R-22 CHARGING CHART								
Measured Liquid Pressure (psig)	Rating Plate (required) Subcooling Temperature °F (°C)							
	°F 5	(°C) 3	°F 10	(°C) 6	°F 15	(°C) 8	°F 20	(°C) 11
	R-22 Required Liquid Line Temperature °F (°C)							
163	83	28	78	26	73	23	68	20
171	86	30	81	27	76	24	71	22
179	89	32	84	29	79	26	74	23
187	92	33	87	31	82	28	77	25
196	95	35	90	32	85	29	80	27
205	98	37	93	34	88	31	83	28
214	101	38	96	36	91	33	86	30
223	104	40	99	37	94	34	89	32
233	107	42	102	39	97	36	92	33
243	110	43	105	41	100	38	95	35
253	113	45	108	42	103	39	98	37
264	116	47	111	44	106	41	101	38
274	119	48	114	46	109	43	104	40
285	122	50	117	47	112	44	107	42
297	125	52	120	49	115	46	110	43
309	128	53	123	51	118	48	113	45

COOLING		36 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		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
1050	MBh†	39.31	35.87	33.37	32.92	32.17	37.99	34.65	32.22	31.82	31.27	36.55	33.31	30.95	30.63	30.27	34.98	31.84	29.55	29.32	29.15	33.27	30.24	28.01	27.93	27.91
	S/T‡	0.52	0.70	0.72	0.90	1.00	0.52	0.71	0.74	0.92	1.00	0.53	0.72	0.75	0.93	1.00	0.54	0.73	0.76	0.95	1.00	0.54	0.75	0.78	0.99	1.00
	AMPS*	11.56	11.44	11.30	11.28	11.23	12.51	12.40	12.26	12.24	12.21	13.59	13.48	13.35	13.33	13.31	14.83	14.74	14.61	14.60	14.59	16.29	16.21	16.09	16.09	16.09
	HI PR	164	162	161	161	160	194	191	189	189	189	226	223	221	220	220	260	257	254	254	254	297	294	291	291	291
	LO PR	86	78	72	71	69	87	79	73	72	71	89	80	74	74	73	90	82	76	75	75	92	83	77	77	77
1200	MBh†	39.89	36.44	33.93	33.69	33.42	38.52	35.18	32.75	32.58	32.46	37.03	33.80	31.44	31.35	31.40	35.42	32.30	30.00	30.22	30.22	33.66	30.65	28.42	28.91	28.92
	S/T‡	0.53	0.73	0.76	0.94	1.00	0.54	0.74	0.77	0.96	1.00	0.55	0.75	0.78	1.00	1.00	0.55	0.77	0.80	1.00	1.00	0.57	0.79	0.82	1.00	1.00
	AMPS*	11.82	11.72	11.59	11.58	11.56	12.76	12.67	12.55	12.54	12.54	13.84	13.75	13.63	13.63	13.64	15.08	15.01	14.89	14.91	14.91	16.53	16.48	16.37	16.40	16.40
	HI PR	165	163	161	161	161	194	192	190	190	190	226	223	221	221	221	261	258	255	256	256	298	295	292	293	293
	LO PR	88	80	74	73	73	89	81	75	75	74	91	82	76	76	76	92	84	77	78	78	93	85	79	80	80
1350	MBh†	40.31	36.89	34.38	34.40	34.45	38.90	35.58	33.16	33.43	33.43	37.37	34.17	31.82	32.31	32.32	35.72	32.63	30.35	31.08	31.08	33.92	30.95	28.74	29.72	29.72
	S/T‡	0.55	0.76	0.79	1.00	1.00	0.56	0.77	0.80	1.00	1.00	0.56	0.79	0.81	1.00	1.00	0.57	0.81	0.83	1.00	1.00	0.59	0.83	0.86	1.00	1.00
	AMPS*	12.07	11.99	11.87	11.87	11.88	13.01	12.94	12.83	12.85	12.85	14.08	14.02	13.91	13.94	13.94	15.32	15.27	15.17	15.21	15.21	16.77	16.74	16.64	16.69	16.69
	HI PR	165	163	162	162	162	195	192	190	191	191	227	224	222	222	222	261	258	256	257	257	299	295	292	294	294
	LO PR	90	82	75	76	76	91	83	76	77	77	92	84	77	79	79	93	85	79	81	81	95	86	80	83	83

† 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	63††	62	57	72	67	63††	62	57	72	67	63††	62	57	72	67	63††	62	57	72	67	63††	62	57
1225	MBh†	47.43	43.05	39.93	39.38	38.53	45.76	41.50	38.48	38.01	37.39	44.00	39.88	36.96	36.58	36.20	42.17	38.19	35.37	35.10	34.93	40.25	36.42	33.71	33.54	33.60
	S/T‡	0.53	0.71	0.74	0.92	1.00	0.53	0.73	0.75	0.94	1.00	0.54	0.74	0.77	0.96	1.00	0.55	0.75	0.78	0.96	1.00	0.56	0.77	0.80	1.00	1.00
	AMPS^	12.93	12.80	12.70	12.69	12.67	14.28	14.14	14.05	14.03	14.01	15.79	15.64	15.53	15.52	15.51	17.45	17.29	17.17	17.16	17.15	19.26	19.08	18.94	18.94	18.94
	HI PR	166	165	163	163	163	196	194	192	192	192	228	226	224	223	223	264	260	258	258	258	302	298	295	295	295
	LO PR	85	77	71	70	69	86	78	72	71	70	87	79	73	73	72	89	81	75	74	74	90	82	76	76	76
1400	MBh†	48.20	43.77	40.62	40.32	40.04	46.45	42.17	39.12	38.94	38.83	44.63	40.50	37.55	37.49	37.56	42.73	38.76	35.92	36.22	36.22	40.74	36.94	34.20	34.80	34.80
	S/T‡	0.54	0.75	0.77	0.97	1.00	0.55	0.76	0.79	0.98	1.00	0.56	0.77	0.80	1.00	1.00	0.57	0.79	0.82	1.00	1.00	0.58	0.81	0.84	1.00	1.00
	AMPS^	13.25	13.11	13.01	13.01	13.00	14.59	14.46	14.36	14.35	14.35	16.10	15.95	15.84	15.85	15.85	17.76	17.60	17.48	17.50	17.50	19.57	19.40	19.26	19.30	19.30
	HI PR	167	165	164	164	164	197	194	193	193	193	229	226	224	224	224	264	261	259	259	259	302	299	296	297	297
	LO PR	87	79	73	72	72	88	80	74	74	74	89	81	75	75	75	90	82	76	77	77	92	84	78	79	79
1575	MBh†	48.78	44.37	41.19	41.24	41.30	46.97	42.72	39.65	40.02	40.02	45.10	41.00	38.03	38.68	38.68	43.15	39.21	36.35	37.27	37.27	41.10	37.34	34.60	35.78	35.79
	S/T‡	0.56	0.78	0.81	1.00	1.00	0.57	0.79	0.82	1.00	1.00	0.58	0.81	0.84	1.00	1.00	0.59	0.83	0.86	1.00	1.00	0.60	0.85	0.88	1.00	1.00
	AMPS^	13.55	13.42	13.32	13.32	13.33	14.90	14.76	14.66	14.68	14.68	16.41	16.26	16.15	16.18	16.18	18.07	17.91	17.79	17.83	17.83	19.88	19.71	19.58	19.64	19.64
	HI PR	167	165	164	164	164	197	195	193	193	193	229	227	225	225	225	265	262	259	260	260	303	299	297	298	298
	LO PR	88	80	74	75	75	89	81	75	76	76	91	83	77	78	78	92	84	78	80	80	93	85	79	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		48 Size Outdoor With EB*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†	54.29	49.26	44.79	43.36	52.13	47.24	42.95	41.90	49.95	45.19	41.11	40.41	47.78	43.16	39.27	38.91	45.58	41.08	37.46	37.37					
	S/T‡	0.52	0.70	0.91	1.00	0.53	0.71	0.93	1.00	0.53	0.73	0.95	1.00	0.54	0.74	0.97	1.00	0.55	0.76	0.99	1.00					
	AMPS *	14.87	14.70	14.54	14.49	16.14	15.95	15.77	15.72	17.58	17.35	17.13	17.09	19.18	18.91	18.66	18.63	20.95	20.63	20.34	20.33					
	HI PR	168	166	164	164	197	195	193	192	229	227	224	223	265	261	258	258	303	299	295	295					
	LO PR	86	78	71	69	87	80	73	71	89	81	74	73	90	82	76	75	91	84	77	77					
1600	MBh†	55.34	50.23	45.90	45.23	53.08	48.13	44.03	43.66	50.82	46.00	42.18	42.08	48.57	43.90	40.47	40.48	46.28	41.76	38.85	38.86					
	S/T‡	0.54	0.73	0.95	1.00	0.54	0.74	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 *	15.23	15.06	14.91	14.88	16.51	16.31	16.14	16.12	17.94	17.72	17.52	17.51	19.55	19.28	19.07	19.07	21.33	21.02	20.79	20.79					
	HI PR	168	166	165	164	198	195	193	193	230	227	225	225	265	262	259	259	303	299	297	297					
	LO PR	88	80	74	73	89	81	75	74	91	83	76	76	92	84	78	78	93	85	80	80					
1800	MBh†	56.11	50.96	46.90	46.76	53.78	48.79	45.07	45.12	51.45	46.61	43.45	43.45	49.13	44.45	41.77	41.77	46.79	42.27	40.06	40.07					
	S/T‡	0.55	0.76	0.98	1.00	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					
	AMPS *	15.58	15.41	15.27	15.26	16.86	16.66	16.51	16.51	18.30	18.07	17.91	17.91	19.91	19.65	19.49	19.49	21.69	21.39	21.22	21.22					
	HI PR	169	167	165	165	198	196	194	194	231	228	226	226	266	263	260	260	304	300	298	298					
	LO PR	90	82	76	75	91	83	77	77	92	84	79	79	93	85	81	81	95	87	83	83					

- † 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		60 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		72	67	62	57	72	67	62	57	72	67	62	57	72	67	62	57	72	67	62	57					
1700	MBh†	66.33	60.54	55.46	53.96	63.89	58.32	53.47	52.35	61.36	56.00	51.40	50.65	58.72	53.56	49.23	48.83	55.92	50.96	46.95	46.86					
	S/T‡	0.52	0.69	0.90	1.00	0.52	0.70	0.91	1.00	0.53	0.72	0.93	1.00	0.53	0.73	0.95	1.00	0.54	0.75	0.97	1.00					
	AMPS *	18.87	18.56	18.25	18.16	20.49	20.21	19.93	19.86	22.40	22.13	21.86	21.81	24.66	24.40	24.12	24.09	27.33	27.05	26.77	26.76					
	HI PR	181	178	175	174	211	208	205	204	244	240	237	236	280	276	272	272	319	314	310	310					
	LO PR	88	79	72	70	89	81	73	72	90	82	75	74	92	83	76	76	93	85	78	78					
1950	MBh†	67.45	61.64	56.80	56.20	64.90	59.32	54.78	54.47	62.27	56.91	52.71	52.65	59.53	54.38	50.70	50.71	56.63	51.69	48.61	48.61					
	S/T‡	0.53	0.73	0.94	1.00	0.54	0.74	0.96	1.00	0.55	0.75	0.99	1.00	0.56	0.77	1.00	1.00	0.57	0.79	1.00	1.00					
	AMPS *	19.35	19.05	18.77	18.73	20.96	20.69	20.44	20.42	22.86	22.61	22.37	22.37	25.12	24.87	24.65	24.65	27.79	27.53	27.33	27.33					
	HI PR	182	179	176	176	212	209	206	205	245	241	238	238	281	277	274	274	320	315	312	312					
	LO PR	90	81	75	74	91	83	76	75	92	84	77	77	94	85	79	79	95	86	81	81					
2200	MBh†	68.26	62.46	57.95	58.01	65.61	60.05	56.18	56.18	62.90	57.57	54.25	54.26	60.08	54.97	52.20	52.20	57.10	52.22	50.00	50.00					
	S/T‡	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	0.59	0.83	1.00	1.00					
	AMPS *	19.81	19.53	19.27	19.27	21.41	21.16	20.95	20.95	23.31	23.08	22.90	22.90	25.56	25.34	25.18	25.18	28.23	27.99	27.86	27.86					
	HI PR	182	179	177	177	213	209	207	207	246	242	240	240	282	278	275	275	321	316	314	314					
	LO PR	92	83	77	77	93	84	79	79	94	85	80	80	95	87	82	82	97	88	84	84					

† 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.)

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

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

Data for Condenser Only (Cooling)									
Saturated Suction Temperature °F		Condenser Entering Air Temperature °F							
		55	65	75	85	95	105	115	125
H2A336									
30	TCG	30.10	29.00	27.70	26.30	24.80	23.00	21.10	19.00
	SDT	73.40	82.30	91.20	100.30	109.30	118.40	127.50	136.40
	KW	1.63	1.81	2.00	2.20	2.43	2.70	3.01	3.37
35	TCG	33.50	32.10	30.70	29.20	27.50	25.60	23.60	21.40
	SDT	75.40	84.10	92.90	101.80	110.80	119.80	128.80	137.70
	KW	1.67	1.85	2.04	2.24	2.47	2.73	3.04	3.40
40	TCG	37.00	35.50	33.90	32.20	30.40	28.40	26.30	24.00
	SDT	77.60	86.10	94.70	103.50	112.40	121.30	130.20	139.10
	KW	1.73	1.90	2.09	2.29	2.51	2.78	3.08	3.44
45	TCG	40.60	38.90	37.20	35.40	33.40	31.30	29.10	26.70
	SDT	79.80	88.10	96.60	105.30	114.00	122.90	131.70	140.50
	KW	1.77	1.95	2.13	2.33	2.56	2.82	3.13	3.49
50	TCG	44.30	42.50	40.60	38.60	36.50	34.30	32.00	29.40
	SDT	82.00	90.10	98.50	107.10	115.70	124.50	133.20	142.00
	KW	1.81	1.98	2.16	2.37	2.59	2.86	3.17	3.53
55	TCG	48.00	46.00	44.00	41.90	39.70	37.40	34.90	32.30
	SDT	84.10	92.10	100.40	108.80	117.40	126.10	134.70	143.40
	KW	1.82	1.99	2.18	2.38	2.61	2.87	3.18	3.55
H2A342									
30	TCG	34.10	32.70	31.10	29.60	28.80	26.30	24.70	22.90
	SDT	72.90	81.90	91.00	100.10	104.80	118.70	128.00	137.40
	KW	1.96	2.19	2.44	2.72	2.88	3.38	3.75	4.15
35	TCG	37.60	36.00	34.30	32.70	31.80	29.20	27.40	25.50
	SDT	74.60	83.50	92.50	101.60	106.20	120.00	129.30	138.60
	KW	1.99	2.22	2.47	2.75	2.90	3.41	3.79	4.20
40	TCG	41.20	39.50	37.80	36.00	35.00	32.20	30.30	28.30
	SDT	76.50	85.20	94.10	103.10	107.60	121.40	130.60	139.80
	KW	2.02	2.25	2.50	2.78	2.94	3.45	3.83	4.24
45	TCG	45.20	43.30	41.40	39.50	38.50	35.40	33.40	31.20
	SDT	78.40	87.00	95.80	104.70	109.20	122.80	132.00	141.10
	KW	2.06	2.28	2.53	2.82	2.97	3.48	3.87	4.28
50	TCG	49.30	47.30	45.30	43.20	42.10	38.80	36.60	34.30
	SDT	80.50	89.00	97.60	106.40	110.80	124.30	133.40	142.50
	KW	2.09	2.32	2.57	2.85	3.01	3.52	3.91	4.33
55	TCG	53.80	51.60	49.40	47.10	46.00	42.40	40.00	37.50
	SDT	82.60	91.00	99.50	108.20	112.60	125.90	134.90	143.90
	KW	2.13	2.36	2.61	2.89	3.05	3.56	3.95	4.37

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
H2A348									
30	TCG	43.30	40.70	38.10	35.60	33.10	30.50	28.00	25.60
	SDT	72.60	81.40	90.20	99.20	108.30	117.40	126.60	135.90
	KW	2.32	2.53	2.75	3.00	3.26	3.54	3.84	4.15
35	TCG	48.10	45.40	42.70	40.00	37.30	34.70	32.00	29.40
	SDT	74.50	83.10	91.90	100.80	109.80	119.00	128.10	137.30
	KW	2.36	2.57	2.80	3.06	3.34	3.64	3.96	4.30
40	TCG	53.30	50.40	47.50	44.70	41.80	39.00	36.20	33.40
	SDT	76.50	85.00	93.70	102.50	111.50	120.50	129.60	138.80
	KW	2.39	2.61	2.85	3.11	3.41	3.73	4.07	4.44
45	TCG	58.90	55.80	52.70	49.60	46.60	43.60	40.70	37.70
	SDT	78.60	87.00	95.60	104.30	113.20	122.20	131.20	140.30
	KW	2.43	2.65	2.89	3.17	3.47	3.80	4.17	4.56
50	TCG	64.80	61.40	58.10	54.80	51.60	48.40	45.30	42.10
	SDT	80.80	89.10	97.50	106.10	115.00	123.90	132.90	141.90
	KW	2.47	2.69	2.94	3.22	3.53	3.88	4.26	4.67
55	TCG	71.00	67.30	63.80	60.20	56.80	53.40	50.10	46.70
	SDT	83.00	91.30	99.60	108.10	116.80	125.60	134.60	143.50
	KW	2.51	2.73	2.99	3.27	3.59	3.95	4.34	4.77
H2A360									
30	TCG	52.00	49.50	47.10	44.60	41.90	39.10	36.10	32.80
	SDT	75.00	83.90	93.00	102.20	111.30	120.50	129.60	138.60
	KW	2.71	3.02	3.35	3.71	4.12	4.58	5.10	5.71
35	TCG	57.40	54.70	52.00	49.30	46.50	43.50	40.30	37.00
	SDT	77.00	85.80	94.80	103.90	113.00	122.10	131.10	140.10
	KW	2.79	3.09	3.41	3.77	4.18	4.65	5.19	5.81
40	TCG	63.20	60.20	57.30	54.40	51.30	48.20	44.80	41.30
	SDT	79.10	87.80	96.70	105.60	114.70	123.70	132.70	141.70
	KW	2.88	3.17	3.49	3.85	4.26	4.74	5.29	5.93
45	TCG	69.30	66.00	62.80	59.60	56.40	53.00	49.50	45.80
	SDT	81.30	89.90	98.60	107.50	116.40	125.40	134.40	143.30
	KW	2.98	3.26	3.57	3.93	4.34	4.82	5.39	6.03
50	TCG	75.60	72.00	68.50	65.10	61.60	58.00	54.20	50.30
	SDT	83.50	92.00	100.60	109.40	118.20	127.10	136.00	144.90
	KW	3.08	3.34	3.65	4.00	4.42	4.90	5.47	6.14
55	TCG	82.00	78.10	74.30	70.50	66.80	63.00	59.00	54.90
	SDT	85.70	94.10	102.60	111.30	120.00	128.90	137.70	146.50
	KW	3.17	3.42	3.72	4.06	4.48	4.97	5.55	6.22

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)
H2A336											
>EB*2X36F**		1.00	1.00	ED*2X36F**	*9MVX040	1.02	1.02	EHD2X36A**	*9MVX080	1.02	0.97
EB*2X36B**	MV08B15**B*	1.00	0.93	ED*2X36F**	*9MVX060	1.02	0.97	EHD2X36A**	*9MVX100	1.04	0.97
EB*2X36B**		0.99	0.99	ED*2X36F**	MV12F19**B*	1.01	0.92	EHD2X36A**	MV08B15**B*	0.99	0.93
EB*2X36F**	*8MPV075	1.00	0.96	ED*2X36F**		1.00	1.00	EHD2X36A**	MV12F19**B*	1.00	0.92
EB*2X36F**	*9MPV050	0.99	0.99	ED*2X36J**	*8MPV100	1.02	0.95	EHD2X36A**	MV16J22**B*	1.00	0.92
EB*2X36F**	*9MPV075	0.99	0.97	ED*2X36J**	*8MPV125	1.02	0.95	EHD2X36A**	MV20L24**B*	1.00	0.92
EB*2X36F**	*9MVX040	1.02	1.02	ED*2X36J**	*9MPV100	1.01	0.94	EHD2X36A**		1.00	1.00
EB*2X36F**	*9MVX060	1.02	0.97	ED*2X36J**	*9MVX080	1.02	0.97	EHD2X42A**	*8MPV050	0.99	0.95
EB*2X36F**	MV12F19**B*	1.01	0.92	ED*2X36J**	MV16J22**B*	1.01	0.92	EHD2X42A**	*8MPV075	1.01	0.97
EB*2X36J**	*8MPV100	1.02	0.95	ED*2X36J**		1.00	1.00	EHD2X42A**	*8MPV100	1.02	0.96
EB*2X36J**	*8MPV125	1.02	0.95	ED*2X42F**	*8MPV075	1.01	0.97	EHD2X42A**	*8MPV125	1.02	0.96
EB*2X36J**	*9MPV100	1.01	0.94	ED*2X42F**	*9MPV050	1.00	0.97	EHD2X42A**	*9MPV050	1.00	0.96
EB*2X36J**	*9MVX080	1.02	0.97	ED*2X42F**	*9MPV075	1.00	0.96	EHD2X42A**	*9MPV075	1.01	0.96
EB*2X36J**	MV16J22**B*	1.01	0.92	ED*2X42F**	*9MVX040	1.03	1.00	EHD2X42A**	*9MPV100	1.02	0.97
EB*2X36J**		1.00	1.00	ED*2X42F**	*9MVX060	1.04	0.99	EHD2X42A**	*9MPV125	1.02	0.96
EB*2X42F**	*8MPV075	1.01	0.96	ED*2X42F**	MV12F19**B*	1.01	0.93	EHD2X42A**	*9MVX040	1.03	1.00
EB*2X42F**	*9MPV050	1.00	0.97	ED*2X42F**		1.01	1.01	EHD2X42A**	*9MVX060	1.04	0.99
EB*2X42F**	*9MPV075	1.00	0.96	ED*2X42J**	*8MPV100	1.02	0.96	EHD2X42A**	*9MVX080	1.04	0.99
EB*2X42F**	*9MVX040	1.03	1.00	ED*2X42J**	*8MPV125	1.02	0.96	EHD2X42A**	*9MVX100	1.04	0.97
EB*2X42F**	*9MVX060	1.04	0.99	ED*2X42J**	*9MPV100	1.02	0.98	EHD2X42A**	MV08B15**B*	1.01	0.93
EB*2X42F**	MV12F19**B*	1.00	0.92	ED*2X42J**	*9MVX080	1.04	0.99	EHD2X42A**	MV12F19**B*	1.01	0.93
EB*2X42F**		1.01	1.01	ED*2X42J**	MV16J22**B*	1.01	0.93	EHD2X42A**	MV16J22**B*	1.01	0.93
EB*2X42J**	*8MPV100	1.02	0.96	ED*2X42J**		1.01	1.01	EHD2X42A**	MV20L24**B*	1.01	0.93
EB*2X42J**	*8MPV125	1.02	0.96	ED*2X42L**	*9MPV125	1.02	0.96	EHD2X42A**		1.01	1.01

> 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*2X42J**	*9MPV100	1.02	0.98	ED*2X42L**	*9MVX100	1.04	0.97	EMA2X36D**		1.00	1.00
EB*2X42J**	*9MVX080	1.04	0.99	ED*2X42L**	MV20L24**B*	1.01	0.93	FEM2X35***		1.02	0.98
EB*2X42J**	MV16J22**B*	1.01	0.93	ED*2X42L**		1.01	1.01	FEM2X36***		1.04	0.97
EB*2X42J**		1.01	1.01	EHD2X36A**	*8MPV050	0.99	0.96	FEM2X42***		1.04	0.97
EB*2X42L**	*9MPV125	1.02	0.96	EHD2X36A**	*8MPV075	1.01	0.94	FS(M,U)2X42***		1.02	1.02
EB*2X42L**	*9MVX100	1.04	0.97	EHD2X36A**	*8MPV100	1.01	0.94	FSA2X36***		1.00	1.00
EB*2X42L**	MV20L24**B*	1.01	0.93	EHD2X36A**	*8MPV125	1.01	0.94	FSM2X36***		1.02	0.99
EB*2X42L**		1.01	1.01	EHD2X36A**	*9MPV050	0.99	0.95	FSU2X36***		1.01	1.02
ED*2X36B**	MV08B15**B*	1.00	0.93	EHD2X36A**	*9MPV075	0.99	0.95	FVM2X24***		1.00	0.96
ED*2X36B**		0.99	0.99	EHD2X36A**	*9MPV100	1.01	0.94	FVM2X36***		1.01	0.94
ED*2X36F**	*8MPV075	1.00	0.96	EHD2X36A**	*9MPV125	1.01	0.94	FVM2X48***		1.05	0.96
ED*2X36F**	*9MPV050	0.99	0.99	EHD2X36A**	*9MVX040	1.02	1.02	FVM2X60***		1.05	0.94
ED*2X36F**	*9MPV075	0.99	0.97	EHD2X36A**	*9MVX060	1.02	0.97				
H2A342											
>EB*2X42J**		1.00	1.00	ED*2X42F**		0.98	0.98	EHD2X42A**	*9MPV100	1.00	0.98
EB*2X42F**	*8MPV075	0.99	0.97	ED*2X42J**	*8MPV100	1.00	0.98	EHD2X42A**	*9MPV125	1.00	0.98
EB*2X42F**	*9MVX060	0.98	0.98	ED*2X42J**	*8MPV125	1.00	0.98	EHD2X42A**	*9MVX060	0.98	0.98
EB*2X42F**		0.98	0.98	ED*2X42J**	*9MPV100	1.00	1.00	EHD2X42A**	*9MVX080	0.99	0.94
EB*2X42J**	*8MPV100	1.00	0.98	ED*2X42J**	*9MVX080	0.99	0.94	EHD2X42A**	*9MVX100	0.99	0.93
EB*2X42J**	*8MPV125	1.00	0.98	ED*2X42J**	MV16J22**B*	1.00	0.90	EHD2X42A**	MV16J22**B*	1.00	0.92
EB*2X42J**	*9MPV100	1.00	1.00	ED*2X42J**		1.00	1.00	EHD2X42A**	MV20L24**B*	1.00	0.90
EB*2X42J**	*9MVX080	0.99	0.94	ED*2X42L**	*9MPV125	1.00	0.98	EHD2X42A**		1.00	1.00
EB*2X42J**	MV16J22**B*	1.00	0.92	ED*2X42L**	*9MVX100	0.99	0.93	EHD2X48A**	*8MPV075	0.99	0.99
EB*2X42L**	*9MPV125	1.00	0.98	ED*2X42L**		1.00	1.00	EHD2X48A**	*8MPV100	1.00	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)
EB*2X42L**	*9MVX100	0.99	0.93	ED*2X48F**	*8MPV075	1.00	1.00	EHD2X48A**	*8MPV125	1.01	0.93
EB*2X42L**		1.00	1.00	ED*2X48F**	*9MPV075	0.99	0.99	EHD2X48A**	*9MPV075	0.99	0.99
EB*2X48F**	*8MPV075	1.00	1.00	ED*2X48F**	*9MVX060	1.01	0.99	EHD2X48A**	*9MPV100	0.99	0.97
EB*2X48F**	*9MPV075	0.99	0.99	ED*2X48F**		1.00	1.00	EHD2X48A**	*9MPV125	1.00	0.92
EB*2X48F**	*9MVX060	1.01	0.99	ED*2X48J**	*8MPV100	1.00	0.92	EHD2X48A**	*9MVX060	1.01	0.99
EB*2X48F**		1.00	1.00	ED*2X48J**	*8MPV125	1.01	0.93	EHD2X48A**	*9MVX080	1.01	0.95
EB*2X48J**	*8MPV100	1.00	0.92	ED*2X48J**	*9MPV100	1.01	0.99	EHD2X48A**	*9MVX100	1.01	0.95
EB*2X48J**	*8MPV125	1.01	0.93	ED*2X48J**	*9MVX080	1.01	0.95	EHD2X48A**	MV16J22**B*	0.99	0.89
EB*2X48J**	*9MPV100	1.01	0.99	ED*2X48J**	MV16J22**B*	1.01	0.93	EHD2X48A**	MV20L24**B*	0.99	0.89
EB*2X48J**	*9MVX080	1.01	0.95	ED*2X48J**		1.01	1.01	EHD2X48A**		0.99	0.99
EB*2X48J**	MV16J22**B*	1.01	0.91	ED*2X48L**	*9MPV125	1.00	0.92	EMA2X48D**		0.99	0.99
EB*2X48J**		1.01	1.01	ED*2X48L**	*9MVX100	1.01	0.95	FEM2X42****		1.02	1.01
EB*2X48L**	*9MPV125	1.00	0.92	ED*2X48L**		1.01	1.01	FEM2X48****		1.04	0.99
EB*2X48L**	*9MVX100	1.01	0.95	EHD2X42A**	*8MPV075	1.00	1.00	FS(M,U)2X42****		1.00	1.00
EB*2X48L**		1.01	1.01	EHD2X42A**	*8MPV100	1.00	0.98	FS(M,U)2X48****		1.01	1.01
ED*2X42F**	*8MPV075	0.99	0.97	EHD2X42A**	*8MPV125	1.00	0.98	FVM2X48****		1.02	0.92
ED*2X42F**	*9MVX060	0.98	0.98	EHD2X42A**	*9MPV075	1.00	1.00	FVM2X60****		1.04	0.94
H2A348											
>EB*2X48J**		1.00	1.00	ED*2X48J**	*8MPV125	1.01	1.01	EHD2X48A**	*9MVX080	0.98	0.94
EB*2X48F**		0.98	0.98	ED*2X48J**	*9MPV100	0.98	0.98	EHD2X48A**	*9MVX100	0.97	0.91
EB*2X48J**	*8MPV100	1.00	1.00	ED*2X48J**	*9MVX080	0.98	0.94	EHD2X48A**	MV16J22**B*	0.99	0.91
EB*2X48J**	*8MPV125	1.01	1.01	ED*2X48J**	MV16J22**B*	1.00	0.92	EHD2X48A**	MV20L24**B*	0.99	0.91
EB*2X48J**	*9MPV100	0.98	0.98	ED*2X48J**		1.00	1.00	EHD2X48A**		1.00	1.00
EB*2X48J**	*9MVX080	0.98	0.94	ED*2X48L**	*9MPV125	1.00	1.00	EHD2X60A**	*8MPV100	1.02	0.98
EB*2X48J**	MV16J22**B*	1.00	0.92	ED*2X48L**	*9MVX100	0.97	0.91	EHD2X60A**	*8MPV125	1.02	1.00

> 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*2X48L**	*9MPV125	1.00	1.00	ED*2X48L**		1.00	1.00	EHD2X60A**	*9MPV100	1.02	1.02
EB*2X48L**	*9MVX100	0.97	0.91	ED*2X60J**	*8MPV100	1.04	1.00	EHD2X60A**	*9MPV125	1.02	1.00
EB*2X48L**		1.00	1.00	ED*2X60J**	*8MPV125	1.04	1.02	EHD2X60A**	*9MVX080	1.03	0.97
EB*2X60J**	*8MPV100	1.04	1.00	ED*2X60J**	*9MPV100	1.03	1.03	EHD2X60A**	*9MVX100	1.02	0.96
EB*2X60J**	*8MPV125	1.04	1.02	ED*2X60J**	*9MVX080	1.03	0.97	EHD2X60A**	MV16J22**B*	1.02	0.94
EB*2X60J**	*9MPV100	1.03	1.03	ED*2X60J**	MV16J22**B*	1.02	0.94	EHD2X60A**	MV20L24**B*	1.02	0.92
EB*2X60J**	*9MVX080	1.03	0.97	ED*2X60J**		1.03	0.99	EHD2X60A**		1.03	0.99
EB*2X60J**	MV16J22**B*	1.02	0.94	ED*2X60L**	*9MPV125	1.03	1.01	EMA2X48D**		0.98	0.98
EB*2X60J**		1.03	0.99	ED*2X60L**	*9MVX100	1.02	0.96	FEM2X48***		1.03	0.97
EB*2X60L**	*9MPV125	1.03	1.01	ED*2X60L**		1.03	0.99	FEM2X60***		1.05	1.01
EB*2X60L**	*9MVX100	1.02	0.96	EHD2X48A**	*8MPV100	0.99	0.97	FS(M,U)2X48***		1.02	1.02
EB*2X60L**		1.03	0.99	EHD2X48A**	*8MPV125	0.99	0.95	FS(M,U)2X60***		1.04	1.04
ED*2X48F**		0.98	0.98	EHD2X48A**	*9MPV100	0.99	0.95	FVM2X48***		1.02	0.94
ED*2X48J**	*8MPV100	1.00	1.00	EHD2X48A**	*9MPV125	0.99	0.99	FVM2X60***		1.03	0.93
H2A360											
>EB*2X60L**		1.00	1.00	ED*2X60J**	MV16J22**B*	1.00	0.96	EHD2X60A**	MV16J22**B*	1.00	0.96
EB*2X60J**	*9MVX080	0.97	0.96	ED*2X60J**		1.00	1.00	EHD2X60A**	MV20L24**B*	1.00	0.96
EB*2X60J**	MV16J22**B*	1.00	0.96	ED*2X60L**	*9MVX100	0.96	0.95	EHD2X60A**		1.00	1.00
EB*2X60J**		1.00	1.00	ED*2X60L**	MV20L24**B*	1.00	0.96	FEM2X60***		1.00	0.96
EB*2X60L**	*9MVX100	0.96	0.95	ED*2X60L**		1.00	1.00	FS(M,U)2X60***		1.00	1.00
EB*2X60L**	MV20L24**B*	1.00	0.96	EHD2X60A**	*9MVX080	0.97	0.96	FVM2X60***		1.01	0.95
ED*2X60J**	*9MVX080	0.97	0.96	EHD2X60A**	*9MVX100	0.96	0.95				

> Indicates Tested Indoor Model

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:	H	2	A	3	36	G	H	D	2	0	0
Product Family	BRANDING										
2 = R-22											
4 = R-410A	REFRIGERANT										
A = Air Conditioner											
H = Heat Pump			TYPE								
3 = 13 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											
G = Coil Guard Grille											
C = Coastal						FEATURES					
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)									