

TEMPSTAR®

Heating and Cooling Products

N2AE – 60 Hz

PRODUCT SPECIFICATIONS

FOR EXPORT USE

For Use With R-22 Refrigerant, Dry Charge

UNITS FACTORY SHIPPED WITH NO REFRIGERANT, DRY NITROGEN CHARGED ONLY

60 Hz AIR CONDITIONING CONDENSING UNIT

208/230 Volt, 1-phase, 60Hz, 1-1/2 thru 5 tons

208/230 Volt, 3-phase, 60Hz, 3, 4, and 5 tons

REFRIGERATION CIRCUIT

- High efficiency compressors – durable, proven technology
- Copper tube / aluminum fin coil
- Approved for operation to 52 °C outdoor ambient

BUILT TO LAST

- Triple-step paint process over galvanized steel – one of the toughest finishes in the industry
- Epoxy-Phenolic coated fins for enhanced corrosion protection

EASY TO INSTALL AND SERVICE

- External service valves with gauge ports
- Low profile rectangular design for easy site placement
- Field charged. Factory dry charged with Nitrogen ONLY.



ISO 9001
QMI-SAI Global



OUTDOOR UNIT MODEL NUMBER IDENTIFICATION GUIDE											
Digit Position:	1	2	3	4	5, 6	7	8	9	10	11	12
Example Part Number:	N	2	A	E	36	A	K	R	1	0	0
N = Tempstar	BRANDING										
2 = R-22	REFRIGERANT										
A = Air Conditioner	TYPE										
H = Heat Pump											
E = Export	TYPE										
18 = 18,000 BTUH = 1½ tons	NOMINAL CAPACITY										
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	FEATURES										
60 = 60,000 BTUH = 5 tons											
A = Standard											
P = High and Low Pressure Switches Factory Installed											
K = 208/230-1-60											
H = 208/230-3-60	VOLTAGE										
W = 230-1-50											
Z = 400-3-50											
Dry Charged											
Engineering Revision											
Extra Digit											
Extra Digit											

UNIT SPECIFICATIONS							
Base Model	18-AKR	24-AKR	30-AKR	36-AKR	42-AKR	48-AKR	60-AKR
Electrical Data							
Volts-Phase-Hz.	208/230-1-60						
Voltage Utilization Range	197 – 253						
Minimum Circuit Ampacity	12.1	15.5	18.4	21.4	26.0	30.0	37.4
Compressor							
Quantity – Type	1 – Reciprocating					1 – Scroll	
Model Number	H29B16	H29B22	H29B28	H29B33	CR42K6	ZR48K5	ZR61K3
Rated Load Amps	9.0	11.6	14.1	16.0	19.7	22.9	28.8
Locked Rotor Amps	48	60	73	82	102	137	148
Fan							
HP	1/8	1/6	1/10	1/4	1/5	1/4	1/4
Full Load Amps	0.8	1.0	0.8	1.4	1.4	1.4	1.4
Motor Dia. (in / mm)	5.7 / 145						
RPM	1500	1500	1100	1100	1100	1100	1100
Airflow (CFM) (l/s)	1500 708	1600 755	2000 944	2500 1180	2500 1180	2500 1180	3400 1605
Coil							
Face Area (ft²) (m²)	6.2 0.57	6.8 0.63	7.4 0.69	8.3 0.77	10.7 0.99	12.4 1.15	18.5 1.71
Fins per inch – rows	20 – 1	22 – 1	20 – 1	25 – 1	22 – 1	25 – 1	25 – 1
Tube Diameter (in)	3/8						
Refrigerant							
Type	R-22						
Shipping Charge (lb) (kg)	3.30 1.50	3.65 1.66	4.25 1.93	4.60 2.09	5.13 2.33	6.25 2.83	7.19 3.26
Operating Charge line length	15 ft / 4.6 m						
Connection size, liquid-suction (in)	3/8 – 5/8	3/8 – 5/8	3/8 – 3/4	3/8 – 3/4	3/8 – 7/8	3/8 – 7/8	3/8 – 7/8
Piston Identification Number*	52	59	65	73	82	82	90
Unit							
Sound Level (predicted at 1 m)	80 dBA	80 dBA	80 dBA	82 dBA	82 dBA	82 dBA	82 dBA
Shipping Wt. (lb) (kg)	118 53.5	120 54.4	129 58.5	134 60.8	147 66.7	175 79.4	238 108.0
Height (in / mm)	22 / 557	24 / 608	22 / 557	24 / 608	28 / 710	34 / 862	30 / 760
Width (in) (mm)	18 457	18 457	22.5 572	22.5 572	22.5 572	22.5 572	30 762
Depth (in) (mm)	18 457	18 457	22.5 572	22.5 572	22.5 572	22.5 572	30 762

* Piston listed is for any approved, non-capillary tube indoor coil combination. Piston is shipped with outdoor unit and must be installed in an approved indoor coil.

UNIT SPECIFICATIONS				
Base Mode		36-AHR	48-AHR	60-AHR
Electrical Data	Volts-Phase-Hz	208/230-3-60		
	Voltage Utilization Range	187 – 253		
	Minimum Circuit Ampacity	13.9	20.7	24.3
Compressor	Quantity – Type	1-Recip	1- Scroll	
	Copeland Model Number	CR32K6	ZR48K5	ZR61K3
	Rated Load Amps	10.0	15.4	18.3
	Locked Rotor Amps	70	114	137
Fan	HP	1/5	1/4	1/4
	Full Load Amps	1.4	1.4	1.4
	Diameter (in / mm)	5.7 / 145		
	RPM	1100		
	Airflow (CFM / l/sec)	2500 / 1180		3400 / 1605
Coil	Face Area (ft ² / m ²)	9.1 / 0.84	12.4 / 1.15	18.5 / 1.71
	Fins per inch – rows	25 – 1		
	Tube Diameter (in)	3/8		
Refrigerant	Type	R-22		
	Shipping Charge (lb / kg)	5.0 / 2.27	6.25 / 2.83	7.19 / 3.26
	Operating Charge line length	15 ft / 4.6 m		
	Connection size, liquid – suction (in)	3/8 – 3/4	3/8 – 7/8	3/8 – 7/8
	Piston Identification Number*	70	82	90
Unit	Sound Level (predicted at 1 m)	82 dBA	82 dBA	82 dBA
	Shipping Weight (lb / kg)	140 / 63.5	175 / 79.4	238 / 108.0
	Height (in / mm)	26 / 659	34 / 862	30 / 760
	Width (in / mm)	22.5 / 572	22.5 / 572	30 / 762
	Depth (in / mm)	22.5 / 572	22.5 / 572	30 / 762

* Piston listed is for any approved, non-capillary tube indoor coil combination. Piston is shipped with outdoor unit and must be installed in an approved indoor coil.

DESIGN CONSIDERATIONS

Minimum outdoor operating temperature without low ambient control accessory = 55 °F / 12.8 °C.

Maximum outdoor ambient operating temperature for continuous operation = 125 °F / 52 °C.

Consult Long Line Application Guideline when vertical separation between indoor and outdoor unit is greater than 20 ft / 6.1 m.

Factory refrigerant connection sizes good for up to 80 ft / 24.4 m line length.

Consult Long Line Application Guideline for line lengths beyond 80 ft / 24.4 m.

Units designed and manufactured in accordance with Underwriters Laboratories UL1995.

Factory installed orifice expansion device in the indoor unit is suitable for matched indoor/outdoor.

If indoor/outdoor units are mix-matched, change indoor unit orifice to the one supplied with the outdoor unit.

ELECTRICAL

MODEL SIZE- SERIES	V-Phase	OPERATING VOLTS*		COMPRESSOR		FAN FLA	MIN WIRE SIZE	MAX WIRE LENGTH (Ft / m)		MCA	MAX FUSE OR CKT BKR AMPS†
		Max	Min	LRA	RLA		60 / 75 °C**	60 °C‡	75°C‡		
18-AKR	208/230-1	253	197	48.0	9.0	0.8	14 / 14	61 / 18.6	58 / 17.7	12.1	20
24-AKR				60.0	11.6	1.0	14 / 14	49 / 14.9	47 / 14.3	15.5	20
30-AKR				73.0	14.1	0.8	14 / 14	41 / 12.5	39 / 11.9	18.4	30
36-AKR				82.0	16.0	1.4	12 / 12	58 / 17.7	55 / 16.8	21.4	30
42-AKR				102.0	19.7	1.4	10 / 10	75 / 22.9	73 / 22.3	26.0	40
48-AKR				137.0	22.9	1.4	8 / 10	104 / 31.7	63 / 19.2	30.0	50
60-AKR				148.0	28.8	1.4	8 / 8	82 / 25.0	78 / 23.8	37.4	60
36-AHR	208/230-3	253	187	70.0	10.0	1.4	14 / 14	65 / 19.8	62 / 18.9	13.9	20
48-AHR				114.0	15.4	1.4	14 / 14	52 / 15.8	49 / 14.9	20.7	30
60-AHR				137.0	18.3	1.4	12 / 12	66 / 20.1	63 / 19.2	24.3	35

* Permissible limits of the voltage range at which unit will operate satisfactorily. Operation outside these limits may result in unit failure.

** If wire is applied at ambient greater than 30° C (86° F), consult Table 310-16 of the NEC (ANSI/NFPA 70). The ampacity of nonmetallic-sheathed cable (NM), trade name ROMEX, shall be that of 60° C (140° F) conductors, per the NEC (ANSI/NFPA 70) Article 336-26. If other than uncoated (non-plated), 60 or 75° C (140 or 167° F) insulation, copper wire (solid wire for 10 AWG and smaller, stranded wire for larger than 10 AWG) is used, consult applicable tables of the NEC (ANSI/NFPA 70).

† Time-delay fuse.

‡ Length shown is as measured 1 way along wire path between the unit and service panel for a voltage drop not to exceed 2%.

FLA = Full Load Amps

LRA = Locked Rotor Amps

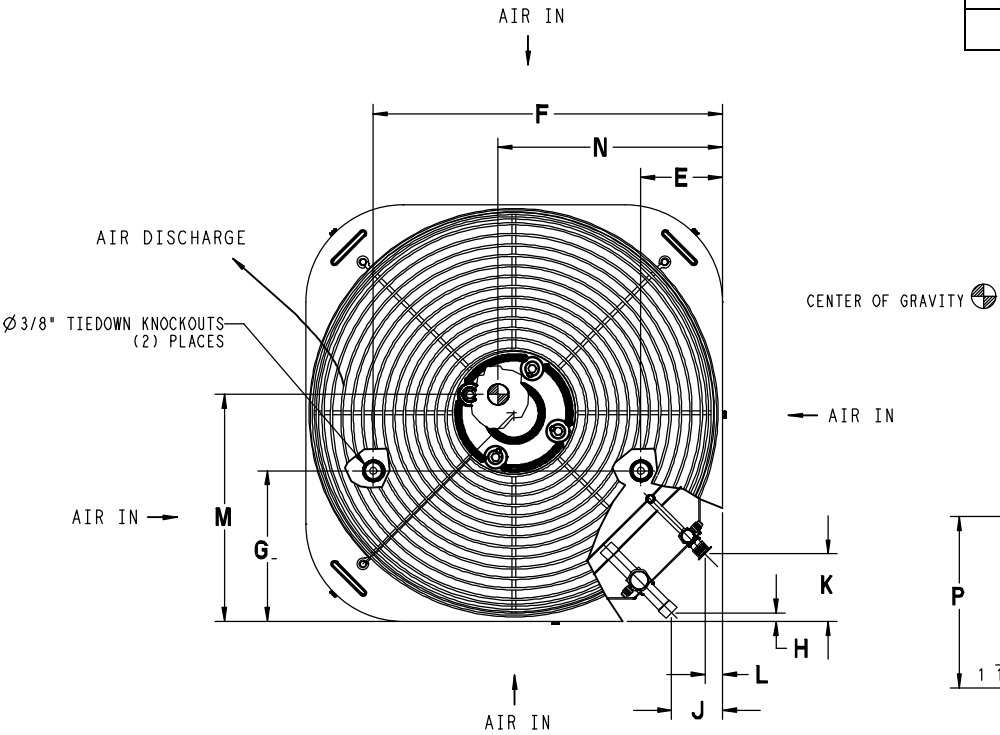
MCA = Minimum Circuit Amps

RLA = Rated Load Amps

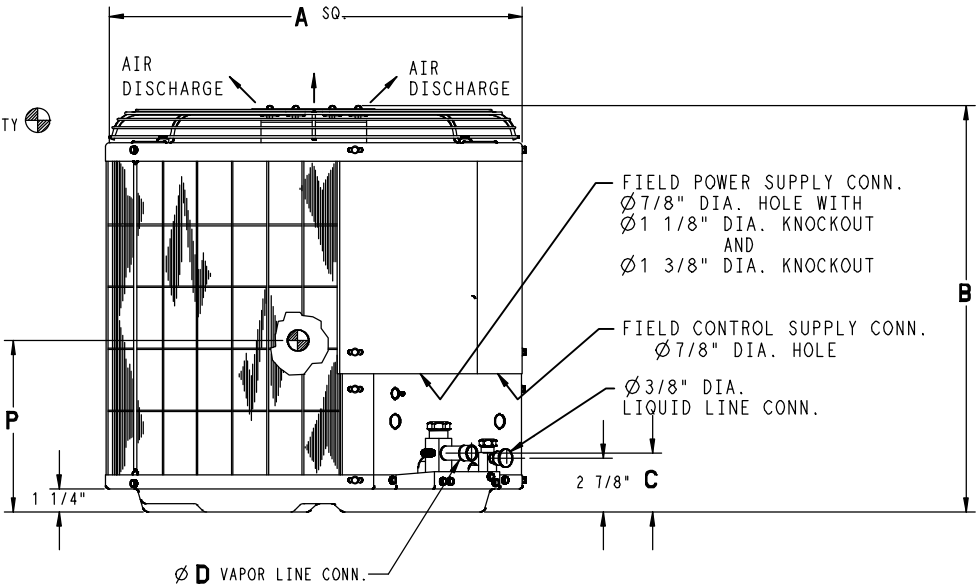
NOTES:

- Control circuit is 24VAC on all units and requires external power source.
- Copper wire must be used from service disconnect to unit.
- All motors/compressors contain internal overload protection.

DIMENSIONS



MODEL SIZE	MINIMUM MOUNTING PAD DIMENSIONS (mm)	MINIMUM MOUNTING PAD DIMENSIONS (In.)
18, 24	457 x 457	18 x 18
30, 36, 42, 48	572 x 572	22-1/2 x 22-1/2
60	762 x 762	30 x 30



- NOTES:
- 1. Allow 30 In. (762.0 mm) clearance to service side of unit, 48 In. (1219.2 mm) above unit, 6 In. (152.4 mm) on one side, 12 In. (308.8mm) on remaining side, and 24 In. (609.6 mm) between units for proper airflow.
 - 2. Minimum outdoor operating ambient in cooling mode is 55 °F(13 °C), max 125 °F(52 °C).
 - 3. Center of gravity dimensions M, N, P.

9 DIMENSIONS – CONTINUED

MODEL SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	P
	MM (SI Metric)													
18	457	557	81	16	76	381	198	6	43	48	6	245	257	238
24	457	609	81	16	76	381	198	6	43	48	6	245	257	241
30	572	557	81	19	94	460	206	11	70	48	6	298	308	273
36 – AKR	572	608	81	19	94	460	206	11	70	48	6	298	308	279
36 – AHR	572	658	81	19	94	460	206	11	70	48	6	298	308	292
42	572	710	83	22	94	460	206	11	70	48	6	298	308	305
48	572	862	83	22	94	460	206	11	70	48	6	298	308	381
60	762	760	83	22	165	597	254	11	70	48	6	406	368	356
MODEL SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	P
	Inches (English)													
18	18	22	3-3/16	5/8	3	15	7-13/16	1/4	1-11/16	1-7/8	1/4	9-5/8	10-1/8	9-3/8
24	18	24	3-3/16	5/8	3	15	7-13/16	1/4	1-11/16	1-7/8	1/4	9-5/8	10-1/8	9-1/2
30	22-1/2	22	3-3/16	3/4	3-11/16	18-1/8	8-1/8	7/16	2-3/4	2-15/16	1/4	11-3/4	12-1/8	10-3/4
36 – AKR	22-1/2	24	3-3/16	3/4	3-11/16	18-1/8	8-1/8	7/16	2-3/4	2-15/16	1/4	11-3/4	12-1/8	11
36 – AHR	22-1/2	26	3-3/16	3/4	3-11/16	18-1/8	8-1/8	7/16	2-3/4	2-15/16	1/4	11-3/4	12-1/8	11-1/2
42	22-1/2	28	3-1/4	7/8	3-11/16	18-1/8	8-1/8	7/16	2-3/4	2-15/16	1/4	11-3/4	12-1/8	12
48	22-1/2	34	3-1/4	7/8	3-11/16	18-1/8	8-1/8	7/16	2-3/4	2-15/16	1/4	11-3/4	12-1/8	15
60	30	30	3-1/4	7/8	6-1/2	23-1/2	10	7/16	2-3/4	2-15/16	1/4	16	14-1/2	14

A-WEIGHTED SOUND POWER (DBA)

MODEL SIZE - SERIES	SOUND RATING (dBA)	TYPICAL OCTAVE BAND SPECTRUM, WITHOUT TONE ADJUSTMENT (Hz)						
		125	250	500	1000	2000	4000	8000
18-AKR	80	58.0	64.0	68.5	72.5	71.5	68.0	60.0
24-AKR	80	59.5	65.5	70.0	74.0	71.0	69.5	60.5
30-AKR	80	55.0	64.5	71.0	72.0	70.5	69.0	62.5
36-AKR	82	55.5	66.5	70.5	74.5	73.5	70.0	63.5
36-AHR	82	57.0	64.5	73.0	74.0	72.0	73.0	65.5
42-AKR	82	59.0	66.5	68.5	75.5	71.5	73.0	65.5
48-AKR/AHR	82	61.9	67.5	71.8	77.1	76.5	72.9	66.9
60-AKR/AHR	82	58.0	67.5	72.0	76.0	76.0	73.0	67.0

COOLING PERFORMANCE FOR COMBINATION RATINGS

Unit Size - Series	Indoor Model ⁺	Nominal Air Flow		Factory Enhancement	Cooling @ 95°F (35°C)							Cooling @ 115°F (46°C)			
		CFM	L/s		Capacity BTUH	Capacity kW	Power kW	Efficiency W/W	Efficiency EER	SEER		Capacity BTUH	Capacity kW	Power kW	Efficiency W/W
										TDR	TXV				
N2AE18AKR	^ED*4X18B**	600	280	TXV	17200	5.04	1.91	2.64	9.0	10.0		14500	4.25	2.07	2.05
	EBP2400E	600	280	TDR	17600	5.16	1.96	2.64	9.0	10.0					
	FEM4P18**A*	600	280	TDR	18000	5.27	1.88	2.81	9.6	10.5					
	FEM4P24**A*	600	280	TDR	18000	5.27	1.88	2.81	9.6	10.5					
N2AE24AKR	^ED*4X24B**	800	380	TXV	23600	6.91	2.62	2.64	9.0	10.0		18700	5.48	2.88	1.90
	EBP2400E	800	380	TDR	23600	6.91	2.68	2.58	8.8	10.0					
	FEM4P30**A*	800	380	TDR	24000	7.03	2.50	2.81	9.6	10.5					
N2AE30AKR	^ED*4X30B**	100	467	TXV	28000	8.20	3.11	2.64	9.0	10.0		23500	6.89	3.79	1.82
	EBP3600E	100	467	TDR	28400	8.32	3.16	2.64	9.0	10.0					
	FEM4P30**A*	100	467	TDR	28400	8.32	2.96	2.81	9.6	10.5					
N2AE36AKR/ AHR	^ED*4X36F**	1200	550	TXV	33800	9.90	3.84	2.58	8.8	10.0		27800	8.15	4.28	1.90
	EBP3600E	1200	550	TDR	33400	9.79	3.84	2.55	8.7	10.0					
	FEM4P42**A*	1200	550	TDR	35000	10.25	3.65	2.81	9.6	10.5					
N2AE42AKR	^ED*4X42J**	1400	653	TXV	40000	11.72	4.49	2.61	8.9	10.0		35000	10.25	5.83	1.76
	EBP4800E	1400	653	TDR	40500	11.87	4.60	2.58	8.8	10.0					
	FEM4P42**A*	1400	653	TDR	41000	12.01	4.27	2.81	9.6	10.5					
N2AE48AKR/ AHR	^ED*4X48J**	1600	750	TXV	46000	13.48	5.11	2.64	9.0	10.0		41000 42000	12.01 12.31	6 6	2.00 2.05
	EBP4800E	1600	750	TDR	46500	13.62	5.17	2.64	9.0	10.0					
	EBP6000E	1600	750	TDR	48000	14.06	5.33	2.64	9.0	10.0					
	FEM4P48**A*	1600	750	TDR	47000	13.77	4.90	2.81	9.6	10.5					
	FEM4P60**A*	1600	750	TDR	48000	14.06	5.00	2.81	9.6	10.5					
N2AE60AKR/ AHR	^ED*4X60L**	2000	919	TXV	57000	16.70	6.33	2.64	9.0	10.0		48000	14.06	8	1.76
	EBP600E	2000	919	TDR	57500	16.85	6.39	2.64	9.0	10.0					
	FEM4X60**B*	2000	919	TDR	58000	16.99	6.04	2.81	9.6	10.5					

* Tested Combination

+ All indoor models must be installed with an R22 TXV.

EXPANDED COOLING PERFORMANCE RATINGS For Outdoor / Indoor Models

For complete ratings information, use the AHRI website directory search: www.AHRIdirectory.org.
New ratings may be listed online before Specification Sheets are updated.

N2AE18AKR Outdoor Section With ED*4X18B** Indoor Section

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg C																	
		24			29			35			41			46			52		
L/S	EWB	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW
		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
250	14	5.38	5.38	1.88	4.91	4.91	1.90	4.46	4.46	1.91	4.02	4.02	1.93	3.60	3.60	1.94	3.19	3.19	1.95
	17	5.83	5.03	1.93	5.26	4.66	1.94	4.70	4.30	1.95	4.16	3.94	1.95	3.66	3.58	1.95	3.19	3.19	1.95
	19	6.47	4.31	1.97	5.90	4.02	2.00	5.32	3.71	2.03	4.74	3.40	2.04	4.18	3.10	2.04	3.65	2.82	2.03
	22	7.03	3.56	2.01	6.49	3.32	2.05	5.93	3.07	2.08	5.35	2.81	2.11	4.77	2.56	2.13	4.19	2.30	2.15
285	14	5.63	5.63	1.95	5.15	5.15	1.96	4.67	4.67	1.98	4.21	4.21	1.99	3.77	3.77	2.00	3.34	3.34	2.01
	17	5.98	5.34	1.97	5.40	4.96	1.99	4.83	4.57	2.00	4.28	4.18	2.00	3.77	3.77	2.00	3.34	3.34	2.01
	19	6.61	4.52	2.01	6.04	4.23	2.05	5.45	3.93	2.07	4.85	3.61	2.09	4.28	3.30	2.09	3.73	3.00	2.08
	22	7.15	3.67	2.05	6.61	3.43	2.09	6.04	3.18	2.12	5.46	2.94	2.15	4.87	2.68	2.17	4.29	2.42	2.19
320	14	5.85	5.85	2.00	5.36	5.36	2.03	4.86	4.86	2.04	4.38	4.38	2.05	3.92	3.92	2.06	3.48	3.48	2.07
	17	6.11	5.63	2.02	5.52	5.24	2.04	4.94	4.83	2.05	4.39	4.39	2.05	3.92	3.92	2.06	3.47	3.47	2.06
	19	6.72	4.72	2.06	6.15	4.44	2.09	5.55	4.14	2.11	4.95	3.82	2.13	4.36	3.50	2.14	3.79	3.19	2.13
	22	7.23	3.76	2.09	6.70	3.54	2.13	6.12	3.30	2.17	5.55	3.06	2.19	4.95	2.80	2.21	4.36	2.54	2.23

N2AE18AKR Outdoor Section With ED*4X18B** Indoor Section

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg F																	
		75			85			95			105			115			125		
CFM	EWB	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW
		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
526	57	18.36	18.36	1.88	16.77	16.77	1.90	15.22	15.22	1.91	13.72	13.72	1.93	12.29	12.29	1.94	10.90	10.90	1.95
	62	19.91	17.15	1.93	17.95	15.91	1.94	16.05	14.66	1.95	14.22	13.44	1.95	12.48	12.22	1.95	10.89	10.89	1.95
	67	22.08	14.72	1.97	20.15	13.71	2.00	18.16	12.67	2.03	16.18	11.60	2.04	14.28	10.59	2.04	12.45	9.61	2.03
	72	24.01	12.15	2.01	22.16	11.32	2.05	20.25	10.48	2.08	18.26	9.60	2.11	16.27	8.72	2.13	14.31	7.85	2.15
600	57	19.22	19.22	1.95	17.57	17.57	1.96	15.94	15.94	1.98	14.37	14.37	1.99	12.86	12.86	2.00	11.40	11.40	2.01
	62	20.42	18.22	1.97	18.43	16.94	1.99	16.47	15.61	2.00	14.60	14.27	2.00	12.87	12.87	2.00	11.40	11.40	2.01
	67	22.57	15.44	2.01	20.61	14.44	2.05	18.60	13.41	2.07	16.56	12.33	2.09	14.60	11.27	2.09	12.72	10.25	2.08
	72	24.39	12.51	2.05	22.55	11.72	2.09	20.60	10.87	2.12	18.64	10.03	2.15	16.62	9.15	2.17	14.63	8.27	2.19
675	57	19.98	19.98	2.00	18.28	18.28	2.03	16.59	16.59	2.04	14.94	14.94	2.05	13.37	13.37	2.06	11.86	11.86	2.07
	62	20.85	19.21	2.02	18.84	17.90	2.04	16.85	16.48	2.05	14.97	14.97	2.05	13.37	13.37	2.06	11.85	11.85	2.06
	67	22.95	16.11	2.06	20.98	15.14	2.09	18.96	14.13	2.11	16.89	13.05	2.13	14.86	11.95	2.14	12.93	10.88	2.13
	72	24.68	12.84	2.09	22.85	12.08	2.13	20.90	11.25	2.17	18.94	10.43	2.19	16.89	9.55	2.21	14.87	8.67	2.23

Cooling Multipliers

Indoor Model	Capacity	Power
*ED*4X18B**	1.00	1.00
FEM4P18**A*	1.05	0.98
FEM4P24**A*	1.05	0.98
EBP2400E	1.02	1.02

* Tested Combination

N2AE24AKR Outdoor Section With ED*4X24B** Indoor Section																			
EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg C																	
		24			29			35			41			46			52		
		Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW
L/S	EWB	Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
340	14	7.14	7.14	2.29	6.54	6.54	2.40	5.96	5.96	2.52	5.40	5.40	2.65	4.86	4.86	2.80	4.36	4.36	2.95
	17	7.66	6.71	2.33	6.94	6.26	2.46	6.22	5.79	2.56	5.53	5.32	2.68	4.88	4.88	2.80	4.35	4.35	2.95
	19	8.50	5.74	2.39	7.80	5.39	2.54	7.07	5.00	2.68	6.33	4.61	2.82	5.61	4.23	2.94	4.94	3.87	3.08
	22	9.23	4.70	2.46	8.60	4.43	2.61	7.90	4.12	2.77	7.17	3.80	2.93	6.43	3.48	3.10	5.70	3.15	3.27
380	14	7.40	7.40	2.34	6.79	6.79	2.47	6.19	6.19	2.59	5.60	5.60	2.72	5.04	5.04	2.87	4.52	4.52	3.02
	17	7.82	7.04	2.37	7.09	6.58	2.51	6.36	6.08	2.62	5.64	5.64	2.73	5.04	5.04	2.87	4.51	4.51	3.02
	19	8.64	5.96	2.44	7.95	5.62	2.58	7.21	5.24	2.73	6.45	4.84	2.87	5.71	4.44	3.00	5.03	4.07	3.14
	22	9.34	4.82	2.50	8.72	4.55	2.66	8.02	4.26	2.82	7.29	3.94	2.98	6.54	3.62	3.15	5.80	3.29	3.33
415	14	7.63	7.63	2.39	7.01	7.01	2.53	6.39	6.39	2.65	5.78	5.78	2.79	5.20	5.20	2.93	4.66	4.66	3.09
	17	7.95	7.35	2.41	7.22	6.87	2.55	6.48	6.35	2.67	5.79	5.79	2.79	5.20	5.20	2.93	4.66	4.66	3.09
	19	8.75	6.17	2.48	8.06	5.84	2.63	7.32	5.46	2.77	6.55	5.06	2.93	5.80	4.65	3.05	5.10	4.27	3.19
	22	9.43	4.92	2.54	8.81	4.67	2.70	8.12	4.38	2.86	7.38	4.06	3.03	6.63	3.74	3.20	5.88	3.42	3.38
N2AE24AKR Outdoor Section With ED*4X24B** Indoor Section																			
EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg F																	
		75			85			95			105			115			125		
		Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW
CFM	EWB	Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
725	57	24.36	24.36	2.29	22.33	22.33	2.40	20.35	20.35	2.52	18.41	18.41	2.65	16.59	16.59	2.80	14.87	14.87	2.95
	62	26.15	22.92	2.33	23.69	21.36	2.46	21.24	19.76	2.56	18.88	18.17	2.68	16.67	16.67	2.80	14.86	14.86	2.95
	67	29.00	19.59	2.39	26.63	18.38	2.54	24.14	17.08	2.68	21.59	15.72	2.82	19.15	14.42	2.94	16.86	13.20	3.08
	72	31.49	16.04	2.46	29.34	15.11	2.61	26.95	14.07	2.77	24.47	12.98	2.93	21.95	11.87	3.10	19.45	10.77	3.27
800	57	25.27	25.27	2.34	23.18	23.18	2.47	21.11	21.11	2.59	19.11	19.11	2.72	17.21	17.21	2.87	15.41	15.41	3.02
	62	26.68	24.04	2.37	24.20	22.46	2.51	21.70	20.77	2.62	19.25	19.25	2.73	17.20	17.20	2.87	15.41	15.41	3.02
	67	29.48	20.35	2.44	27.12	19.18	2.58	24.60	17.88	2.73	22.01	16.51	2.87	19.50	15.17	3.00	17.16	13.91	3.14
	72	31.87	16.44	2.50	29.75	15.54	2.66	27.37	14.52	2.82	24.87	13.44	2.98	22.33	12.34	3.15	19.79	11.22	3.33
875	57	26.04	26.04	2.39	23.94	23.94	2.53	21.80	21.80	2.65	19.73	19.73	2.79	17.76	17.76	2.93	15.90	15.90	3.09
	62	27.12	25.07	2.41	24.63	23.46	2.55	22.11	21.66	2.67	19.75	19.75	2.79	17.75	17.75	2.93	15.89	15.89	3.09
	67	29.86	21.05	2.48	27.51	19.92	2.63	24.97	18.63	2.77	22.36	17.26	2.93	19.79	15.88	3.05	17.39	14.56	3.19
	72	32.18	16.78	2.54	30.07	15.93	2.70	27.70	14.94	2.86	25.19	13.87	3.03	22.63	12.78	3.20	20.08	11.66	3.38

Cooling Multipliers		
Indoor Model	Capacity	Power
*ED*4X24B**	1.00	1.00
FEM4P30**A*	1.02	0.95
EBP2400E	1.00	1.02

* Tested Combination

N2AE30AKR Outdoor Section With ED*4X30B** Indoor Section																			
EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg C																	
L/S	EWB	24			29			35			41			46			52		
		Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW
		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
415	14	8.39	8.39	2.53	7.79	7.79	2.74	7.20	7.20	2.95	6.63	6.63	3.18	6.08	6.08	3.42	5.52	5.52	3.67
	17	8.88	7.93	2.58	8.15	7.47	2.80	7.43	7.01	3.00	6.75	6.55	3.21	6.09	6.09	3.42	5.52	5.52	3.67
	19	9.83	6.75	2.67	9.08	6.38	2.90	8.32	6.00	3.14	7.58	5.62	3.39	6.84	5.25	3.62	6.13	4.88	3.85
	22	10.72	5.51	2.74	9.98	5.20	3.00	9.23	4.88	3.26	8.46	4.56	3.52	7.70	4.24	3.80	6.95	3.92	4.08
470	14	8.77	8.77	2.62	8.14	8.14	2.85	7.52	7.52	3.07	6.92	6.92	3.31	6.34	6.34	3.55	5.76	5.76	3.81
	17	9.10	8.44	2.65	8.35	7.97	2.88	7.62	7.46	3.09	6.94	6.94	3.31	6.33	6.33	3.55	5.76	5.76	3.81
	19	10.03	7.12	2.74	9.27	6.75	2.98	8.50	6.38	3.22	7.73	6.00	3.47	6.97	5.61	3.72	6.23	5.22	3.95
	22	10.90	5.72	2.81	10.15	5.41	3.07	9.38	5.09	3.33	8.61	4.78	3.60	7.83	4.45	3.88	7.06	4.13	4.17
530	14	9.07	9.07	2.70	8.43	8.43	2.94	7.79	7.79	3.18	7.17	7.17	3.42	6.56	6.56	3.67	5.95	5.95	3.93
	17	9.27	8.89	2.72	8.50	8.48	2.95	7.80	7.80	3.19	7.16	7.16	3.42	6.55	6.55	3.67	5.95	5.95	3.93
	19	10.18	7.47	2.80	9.41	7.10	3.04	8.63	6.73	3.29	7.84	6.34	3.54	7.07	5.94	3.80	6.31	5.53	4.04
	22	11.02	5.89	2.87	10.27	5.59	3.13	9.49	5.28	3.40	8.72	4.97	3.68	7.93	4.65	3.96	7.15	4.33	4.25

N2AE30AKR Outdoor Section With ED*4X30B** Indoor Section																			
EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg F																	
CFM	EWB	75			85			95			105			115			125		
		Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW
		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
875	57	28.64	28.64	2.53	26.59	26.59	2.74	24.58	24.58	2.95	22.64	22.64	3.18	20.73	20.73	3.42	18.86	18.86	3.67
	62	30.32	27.06	2.58	27.82	25.51	2.80	25.37	23.93	3.00	23.04	22.37	3.21	20.79	20.79	3.42	18.85	18.85	3.67
	67	33.54	23.04	2.67	30.99	21.78	2.90	28.41	20.49	3.14	25.86	19.19	3.39	23.36	17.91	3.62	20.91	16.67	3.85
	72	36.57	18.82	2.74	34.05	17.74	3.00	31.49	16.66	3.26	28.87	15.56	3.52	26.28	14.46	3.80	23.72	13.38	4.08
1000	57	29.93	29.93	2.62	27.79	27.79	2.85	25.67	25.67	3.07	23.63	23.63	3.31	21.62	21.62	3.55	19.65	19.65	3.81
	62	31.05	28.81	2.65	28.51	27.20	2.88	26.02	25.47	3.09	23.67	23.67	3.31	21.61	21.61	3.55	19.65	19.65	3.81
	67	34.23	24.31	2.74	31.64	23.05	2.98	29.00	21.78	3.22	26.38	20.47	3.47	23.80	19.14	3.72	21.27	17.82	3.95
	72	37.19	19.51	2.81	34.64	18.45	3.07	32.03	17.38	3.33	29.38	16.30	3.60	26.73	15.19	3.88	24.11	14.11	4.17
1125	57	30.96	30.96	2.70	28.79	28.79	2.94	26.60	26.60	3.18	24.46	24.46	3.42	22.37	22.37	3.67	20.32	20.32	3.93
	62	31.63	30.35	2.72	29.01	28.96	2.95	26.62	26.62	3.19	24.45	24.45	3.42	22.36	22.36	3.67	20.31	20.31	3.93
	67	34.74	25.48	2.80	32.11	24.23	3.04	29.44	22.98	3.29	26.75	21.65	3.54	24.12	20.28	3.80	21.54	18.89	4.04
	72	37.62	20.12	2.87	35.06	19.09	3.13	32.40	18.02	3.40	29.75	16.98	3.68	27.05	15.87	3.96	24.39	14.77	4.25

Cooling Multipliers		
Indoor Model	Capacity	Power
*ED*4X30B**	1.00	1.00
FEM4P30**A*	1.01	0.95
EBP3600E	1.01	1.01

* Tested Combination

N2AE36AKR/AHR Outdoor Section With ED*4X36F** Indoor Section																			
EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg C																	
		24			29			35			41			46			52		
		Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW
L/S	EWB	Total	Sens	KW	Total	Sens	KW	Total	Sens	KW	Total	Sens	KW	Total	Sens	KW	Total	Sens	KW
495	14	9.61	9.61	3.03	9.06	9.06	3.25	8.49	8.49	3.49	7.92	7.92	3.75	7.34	7.34	4.02	6.73	6.73	4.30
	17	10.09	9.12	3.07	9.40	8.73	3.31	8.70	8.32	3.52	8.00	7.88	3.76	7.33	7.33	4.02	6.73	6.73	4.29
	19	11.17	7.76	3.17	10.49	7.45	3.42	9.75	7.12	3.69	8.98	6.76	3.96	8.20	6.41	4.21	7.38	6.04	4.46
	22	12.18	6.31	3.26	11.55	6.06	3.54	10.85	5.79	3.82	10.09	5.49	4.12	9.28	5.17	4.43	8.43	4.84	4.74
565	14	10.05	10.05	3.13	9.48	9.48	3.38	8.88	8.88	3.63	8.28	8.28	3.89	7.67	7.67	4.16	7.04	7.04	4.45
	17	10.34	9.74	3.15	9.65	9.33	3.40	8.91	8.91	3.63	8.28	8.28	3.89	7.67	7.67	4.16	7.03	7.03	4.45
	19	11.40	8.21	3.25	10.71	7.92	3.51	9.96	7.60	3.78	9.16	7.24	4.06	8.35	6.86	4.32	7.52	6.48	4.57
	22	12.38	6.55	3.35	11.75	6.32	3.62	11.05	6.06	3.91	10.28	5.77	4.21	9.45	5.46	4.53	8.59	5.13	4.85
635	14	10.40	10.40	3.22	9.83	9.83	3.48	9.21	9.21	3.75	8.58	8.58	4.02	7.95	7.95	4.30	7.29	7.29	4.59
	17	10.55	10.27	3.23	9.86	9.86	3.48	9.21	9.21	3.75	8.58	8.58	4.02	7.94	7.94	4.30	7.29	7.29	4.59
	19	11.56	8.62	3.33	10.88	8.35	3.59	10.12	8.04	3.86	9.30	7.68	4.15	8.47	7.29	4.42	7.62	6.88	4.68
	22	12.52	6.76	3.42	11.90	6.55	3.70	11.19	6.30	3.99	10.42	6.04	4.30	9.58	5.73	4.61	8.70	5.40	4.94
N2AE36AKR/AHR Outdoor Section With ED*4X36F** Indoor Section																			
EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg F																	
		75			85			95			105			115			125		
		Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW
CFM	EWB	Total	Sens	KW	Total	Sens	KW	Total	Sens	KW	Total	Sens	KW	Total	Sens	KW	Total	Sens	KW
1050	57	32.80	32.80	3.03	30.91	30.91	3.25	28.99	28.99	3.49	27.05	27.05	3.75	25.04	25.04	4.02	22.98	22.98	4.30
	62	34.44	31.12	3.07	32.09	29.80	3.31	29.68	28.40	3.52	27.29	26.90	3.76	25.03	25.03	4.02	22.97	22.97	4.29
	67	38.12	26.48	3.17	35.81	25.44	3.42	33.29	24.31	3.69	30.64	23.08	3.96	27.97	21.86	4.21	25.20	20.61	4.46
	72	41.57	21.53	3.26	39.43	20.69	3.54	37.04	19.75	3.82	34.43	18.74	4.12	31.68	17.65	4.43	28.78	16.51	4.74
1200	57	34.29	34.29	3.13	32.35	32.35	3.38	30.32	30.32	3.63	28.27	28.27	3.89	26.18	26.18	4.16	24.01	24.01	4.45
	62	35.29	33.23	3.15	32.92	31.85	3.40	30.43	30.43	3.63	28.26	28.26	3.89	26.17	26.17	4.16	24.01	24.01	4.45
	67	38.89	28.01	3.25	36.56	27.02	3.51	34.00	25.93	3.78	31.26	24.69	4.06	28.50	23.42	4.32	25.66	22.11	4.57
	72	42.25	22.35	3.35	40.11	21.57	3.62	37.70	20.67	3.91	35.08	19.70	4.21	32.26	18.63	4.53	29.32	17.51	4.85
1350	57	35.50	35.50	3.22	33.55	33.55	3.48	31.44	31.44	3.75	29.30	29.30	4.02	27.12	27.12	4.30	24.88	24.88	4.59
	62	36.00	35.06	3.23	33.65	33.65	3.48	31.43	31.43	3.75	29.29	29.29	4.02	27.11	27.11	4.30	24.87	24.87	4.59
	67	39.46	29.42	3.33	37.12	28.50	3.59	34.53	27.46	3.86	31.73	26.21	4.15	28.90	24.87	4.42	26.01	23.49	4.68
	72	42.73	23.08	3.42	40.60	22.37	3.70	38.18	21.52	3.99	35.55	20.60	4.30	32.68	19.54	4.61	29.69	18.43	4.94

Cooling Multipliers		
Indoor Model	Capacity	Power
*ED*4X36F**	1.00	1.00
FEM4P42**A*	1.04	0.95
EBP3600E	0.99	1.00

* Tested Combination

N2AE42AKR Outdoor Section With ED*4X42J** Indoor Section																			
EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg C																	
L/S	EWB	24			29			35			41			46			52		
		Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW
		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
580	14	11.10	11.10	3.07	10.59	10.59	3.61	10.06	10.06	4.19	9.52	9.52	4.81	8.94	8.94	5.46	8.33	8.33	6.15
	17	12.00	10.36	3.15	11.28	10.02	3.72	10.55	9.66	4.28	9.82	9.29	4.88	9.06	8.88	5.50	8.32	8.32	6.15
	19	13.28	8.89	3.26	12.63	8.62	3.86	11.88	8.31	4.50	11.08	7.97	5.16	10.26	7.63	5.81	9.39	7.28	6.48
	22	14.48	7.35	3.36	13.89	7.12	3.99	13.21	6.86	4.67	12.44	6.57	5.38	11.63	6.26	6.13	10.73	5.92	6.89
660	14	11.63	11.63	3.18	11.07	11.07	3.76	10.51	10.51	4.35	9.93	9.93	4.99	9.33	9.33	5.66	8.68	8.68	6.37
	17	12.30	11.03	3.23	11.57	10.69	3.82	10.81	10.30	4.41	10.06	9.88	5.02	9.32	9.32	5.66	8.68	8.68	6.37
	19	13.58	9.35	3.34	12.93	9.11	3.95	12.16	8.82	4.61	11.34	8.48	5.30	10.49	8.14	5.97	9.59	7.78	6.65
	22	14.74	7.60	3.45	14.16	7.40	4.09	13.47	7.16	4.78	12.69	6.88	5.50	11.86	6.58	6.27	10.96	6.24	7.06
745	14	12.08	12.08	3.27	11.52	11.52	3.88	10.92	10.92	4.51	10.31	10.31	5.16	9.68	9.68	5.85	9.00	9.00	6.57
	17	12.55	11.65	3.31	11.83	11.31	3.91	11.00	10.97	4.52	10.31	10.31	5.16	9.67	9.67	5.85	9.00	9.00	6.57
	19	13.81	9.78	3.42	13.15	9.58	4.04	12.38	9.30	4.71	11.54	8.98	5.41	10.67	8.63	6.11	9.74	8.26	6.80
	22	14.94	7.83	3.53	14.36	7.65	4.18	13.67	7.43	4.88	12.89	7.17	5.62	12.04	6.87	6.39	11.13	6.55	7.19

N2AE42AKR Outdoor Section With ED*4X42J** Indoor Section																			
EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg F																	
CFM	EWB	75			85			95			105			115			125		
		Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW
		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
1225	57	37.88	37.88	3.07	36.14	36.14	3.61	34.34	34.34	4.19	32.48	32.48	4.81	30.51	30.51	5.46	28.42	28.42	6.15
	62	40.95	35.35	3.15	38.49	34.19	3.72	35.99	32.97	4.28	33.52	31.72	4.88	30.92	30.32	5.50	28.41	28.41	6.15
	67	45.32	30.33	3.26	43.10	29.43	3.86	40.54	28.37	4.50	37.83	27.21	5.16	35.03	26.05	5.81	32.06	24.85	6.48
	72	49.41	25.08	3.36	47.41	24.32	3.99	45.09	23.43	4.67	42.45	22.42	5.38	39.68	21.37	6.13	36.62	20.20	6.89
1400	57	39.68	39.68	3.18	37.79	37.79	3.76	35.85	35.85	4.35	33.90	33.90	4.99	31.83	31.83	5.66	29.63	29.63	6.37
	62	41.99	37.64	3.23	39.50	36.49	3.82	36.88	35.15	4.41	34.32	33.71	5.02	31.82	31.82	5.66	29.62	29.62	6.37
	67	46.35	31.91	3.34	44.11	31.10	3.95	41.50	30.10	4.61	38.70	28.95	5.30	35.80	27.78	5.97	32.72	26.56	6.65
	72	50.31	25.95	3.45	48.32	25.26	4.09	45.98	24.43	4.78	43.32	23.48	5.50	40.47	22.44	6.27	37.41	21.31	7.06
1575	57	41.23	41.23	3.27	39.32	39.32	3.88	37.28	37.28	4.51	35.20	35.20	5.16	33.03	33.03	5.85	30.72	30.72	6.57
	62	42.85	39.77	3.31	40.36	38.61	3.91	37.53	37.43	4.52	35.19	35.19	5.16	33.02	33.02	5.85	30.71	30.71	6.57
	67	47.14	33.39	3.42	44.90	32.68	4.04	42.26	31.76	4.71	39.40	30.66	5.41	36.41	29.47	6.11	33.23	28.20	6.80
	72	51.00	26.74	3.53	49.02	26.13	4.18	46.67	25.36	4.88	44.00	24.48	5.62	41.09	23.46	6.39	37.99	22.37	7.19

Cooling Multipliers		
Indoor Model	Capacity	Power
*ED*4X42J**	1.00	1.00
FEM4P42**A*	1.05	0.97
EBP4800E	1.01	1.02

* Tested Combination

N2AE48AKR/AHR Outdoor Section With ED*4X48J** Indoor Section																			
EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg C																	
		24			29			35			41			46			52		
		Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW
L/S	EWB	Total	Sens	KW	Total	Sens	KW	Total	Sens	KW	Total	Sens	KW	Total	Sens	KW	Total	Sens	KW
660	14	12.76	12.76	3.94	12.30	12.30	4.44	11.82	11.82	5.00	11.28	11.28	5.62	10.69	10.69	6.29	10.05	10.05	7.03
	17	13.61	12.00	4.01	12.98	11.69	4.52	12.35	11.37	5.07	11.65	11.01	5.67	10.88	10.59	6.33	10.07	10.07	7.04
	19	14.99	10.21	4.10	14.41	9.99	4.63	13.78	9.72	5.22	13.07	9.41	5.88	12.28	9.08	6.54	11.41	8.73	7.27
	22	16.27	8.35	4.19	15.79	8.18	4.73	15.20	7.96	5.33	14.53	7.70	6.01	13.79	7.42	6.75	12.93	7.08	7.56
755	14	13.32	13.32	4.08	12.84	12.84	4.59	12.34	12.34	5.16	11.78	11.78	5.78	11.17	11.17	6.47	10.50	10.50	7.21
	17	13.92	12.78	4.11	13.28	12.46	4.64	12.64	12.12	5.20	11.93	11.71	5.80	11.18	11.18	6.47	10.49	10.49	7.21
	19	15.29	10.77	4.20	14.72	10.57	4.73	14.06	10.31	5.33	13.35	10.02	6.00	12.54	9.69	6.69	11.65	9.33	7.42
	22	16.54	8.64	4.30	16.07	8.51	4.84	15.47	8.30	5.45	14.79	8.06	6.12	14.04	7.78	6.87	13.19	7.47	7.68
850	14	13.80	13.80	4.18	13.30	13.30	4.72	12.78	12.78	5.31	12.20	12.20	5.94	11.57	11.57	6.63	10.88	10.88	7.38
	17	14.17	13.47	4.20	13.54	13.14	4.74	12.85	12.85	5.32	12.20	12.20	5.94	11.57	11.57	6.63	10.88	10.88	7.38
	19	15.51	11.26	4.30	14.95	11.11	4.83	14.28	10.87	5.43	13.56	10.59	6.10	12.74	10.26	6.83	11.82	9.89	7.55
	22	16.73	8.91	4.39	16.26	8.78	4.94	15.68	8.62	5.55	14.99	8.39	6.23	14.23	8.12	6.98	13.37	7.82	7.80
N2AE48AKR/AHR Outdoor Section With ED*4X48J** Indoor Section																			
EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg F																	
		75			85			95			105			115			125		
		Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW
CFM	EWB	Total	Sens	KW	Total	Sens	KW	Total	Sens	KW	Total	Sens	KW	Total	Sens	KW	Total	Sens	KW
1400	57	43.54	43.54	3.94	41.99	41.99	4.44	40.34	40.34	5.00	38.51	38.51	5.62	36.50	36.50	6.29	34.30	34.30	7.03
	62	46.46	40.96	4.01	44.31	39.88	4.52	42.16	38.80	5.07	39.76	37.57	5.67	37.14	36.15	6.33	34.36	34.36	7.04
	67	51.16	34.86	4.10	49.19	34.08	4.63	47.02	33.17	5.22	44.60	32.13	5.88	41.91	31.01	6.54	38.95	29.79	7.27
	72	55.54	28.49	4.19	53.91	27.92	4.73	51.86	27.15	5.33	49.58	26.28	6.01	47.05	25.31	6.75	44.14	24.17	7.56
1600	57	45.46	45.46	4.08	43.81	43.81	4.59	42.10	42.10	5.16	40.20	40.20	5.78	38.11	38.11	6.47	35.83	35.83	7.21
	62	47.52	43.61	4.11	45.33	42.52	4.64	43.14	41.35	5.20	40.72	39.96	5.80	38.15	38.15	6.47	35.82	35.82	7.21
	67	52.20	36.75	4.20	50.24	36.07	4.73	48.00	35.20	5.33	45.57	34.21	6.00	42.80	33.07	6.69	39.75	31.84	7.42
	72	56.44	29.50	4.30	54.86	29.03	4.84	52.81	28.34	5.45	50.49	27.50	6.12	47.93	26.57	6.87	45.03	25.50	7.68
1800	57	47.09	47.09	4.18	45.38	45.38	4.72	43.61	43.61	5.31	41.64	41.64	5.94	39.49	39.49	6.63	37.15	37.15	7.38
	62	48.35	45.97	4.20	46.20	44.84	4.74	43.86	43.86	5.32	41.64	41.64	5.94	39.48	39.48	6.63	37.13	37.13	7.38
	67	52.94	38.43	4.30	51.01	37.91	4.83	48.74	37.10	5.43	46.27	36.15	6.10	43.47	35.03	6.83	40.34	33.77	7.55
	72	57.09	30.40	4.39	55.49	29.97	4.94	53.51	29.41	5.55	51.17	28.63	6.23	48.57	27.73	6.98	45.64	26.70	7.80

Cooling Multipliers		
Indoor Model	Capacity	Power
*ED*4X48J**	1.00	1.00
FEM4P48**A*	1.02	0.96
FEM4X60**B*	1.04	0.98
EBP4800E	1.01	1.01
EBP6000E	1.04	1.04

* Tested Combination

N2AE60AKR/AHR Outdoor Section With ED*4X60L** Indoor Section																			
EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg C																	
L/S	EWB	24			29			35			41			46			52		
		Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW
		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
825	14	17.08	17.08	4.93	15.93	15.93	5.50	14.79	14.79	6.15	13.63	13.63	6.85	12.44	12.44	7.60	11.24	11.24	8.41
	17	18.14	16.09	5.03	16.75	15.18	5.61	15.38	14.27	6.24	13.99	13.34	6.91	12.59	12.37	7.64	11.24	11.24	8.41
	19	20.03	13.72	5.17	18.56	12.95	5.78	17.10	12.17	6.48	15.61	11.37	7.24	14.10	10.57	7.99	12.58	9.77	8.78
	22	21.81	11.22	5.30	20.37	10.59	5.95	18.85	9.92	6.65	17.32	9.25	7.44	15.75	8.56	8.30	14.14	7.87	9.21
945	14	17.81	17.81	5.10	16.61	16.61	5.70	15.41	15.41	6.35	14.19	14.19	7.06	12.95	12.95	7.83	11.70	11.70	8.66
	17	18.55	17.13	5.15	17.11	16.16	5.76	15.71	15.18	6.40	14.26	14.26	7.08	12.95	12.95	7.83	11.70	11.70	8.66
	19	20.43	14.46	5.29	18.94	13.70	5.91	17.43	12.90	6.61	15.92	12.09	7.38	14.36	11.26	8.17	12.79	10.43	8.97
	22	22.17	11.63	5.43	20.71	11.01	6.08	19.17	10.35	6.79	17.61	9.67	7.58	16.01	8.98	8.44	14.37	8.27	9.37
1060	14	18.44	18.44	5.24	17.19	17.19	5.87	15.94	15.94	6.55	14.67	14.67	7.27	13.39	13.39	8.05	12.09	12.09	8.89
	17	18.88	18.07	5.27	17.43	17.04	5.88	15.99	15.99	6.56	14.67	14.67	7.27	13.38	13.38	8.05	12.09	12.09	8.89
	19	20.73	15.16	5.41	19.23	14.41	6.04	17.69	13.61	6.74	16.14	12.78	7.51	14.55	11.93	8.34	12.94	11.06	9.14
	22	22.44	12.01	5.55	20.97	11.40	6.20	19.42	10.76	6.91	17.83	10.07	7.71	16.21	9.38	8.58	14.54	8.67	9.51

N2AE60AKR/AHR Outdoor Section With ED*4X60L** Indoor Section																			
EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES deg F																	
CFM	EWB	75			85			95			105			115			125		
		Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW	Capacity MBtuh		Total System KW
		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
1750	57	58.31	58.31	4.93	54.38	54.38	5.50	50.48	50.48	6.15	46.51	46.51	6.85	42.47	42.47	7.60	38.38	38.38	8.41
	62	61.91	54.91	5.03	57.16	51.80	5.61	52.50	48.71	6.24	47.76	45.54	6.91	42.98	42.22	7.64	38.37	38.37	8.41
	67	68.37	46.81	5.17	63.36	44.19	5.78	58.37	41.52	6.48	53.28	38.79	7.24	48.14	36.08	7.99	42.92	33.36	8.78
	72	74.45	38.31	5.30	69.52	36.14	5.95	64.33	33.87	6.65	59.11	31.57	7.44	53.76	29.23	8.30	48.27	26.84	9.21
2000	57	60.80	60.80	5.10	56.67	56.67	5.70	52.59	52.59	6.35	48.42	48.42	7.06	44.21	44.21	7.83	39.94	39.94	8.66
	62	63.30	58.47	5.15	58.40	55.16	5.76	53.62	51.81	6.40	48.68	48.68	7.08	44.19	44.19	7.83	39.92	39.92	8.66
	67	69.72	49.36	5.29	64.64	46.75	5.91	59.50	44.03	6.61	54.32	41.27	7.38	49.00	38.43	8.17	43.64	35.61	8.97
	72	75.67	39.71	5.43	70.68	37.57	6.08	65.43	35.34	6.79	60.10	33.02	7.58	54.65	30.66	8.44	49.05	28.24	9.37
2250	57	62.95	62.95	5.24	58.67	58.67	5.87	54.39	54.39	6.55	50.07	50.07	7.27	45.70	45.70	8.05	41.28	41.28	8.89
	62	64.44	61.69	5.27	59.48	58.14	5.88	54.57	54.57	6.56	50.05	50.05	7.27	45.68	45.68	8.05	41.26	41.26	8.89
	67	70.76	51.75	5.41	65.62	49.20	6.04	60.37	46.44	6.74	55.10	43.63	7.51	49.67	40.72	8.34	44.16	37.74	9.14
	72	76.59	40.99	5.55	71.56	38.90	6.20	66.27	36.72	6.91	60.84	34.38	7.71	55.32	32.01	8.58	49.64	29.58	9.51

Cooling Multipliers		
Indoor Model	Capacity	Power
*ED*4X60L**	1.00	1.00
FEM4X60**B*	1.02	0.95
EBP6000E	1.00	1.00

* Tested Combination

CONDENSER ONLY RATINGS (S.I.)

SST deg ° C		CONDENSER ENTERING AIR TEMPERATURES ° C							
		13	18	24	29	35	41	46	52
18-AKR									
-1	TCG	5.10	4.70	4.20	3.70	3.20	2.70	2.20	1.60
	SDT	27.00	32.00	36.00	41.00	45.00	49.00	54.00	58.00
	KW	1.39	1.43	1.47	1.51	1.54	1.56	1.57	1.55
2	TCG	5.80	5.30	4.80	4.30	3.80	3.30	2.70	2.20
	SDT	29.00	33.00	38.00	42.00	46.00	51.00	55.00	60.00
	KW	1.43	1.50	1.53	1.58	1.62	1.65	1.67	1.68
4	TCG	6.60	6.00	5.50	5.00	4.40	3.90	3.40	2.80
	SDT	30.00	35.00	39.00	44.00	48.00	52.00	57.00	61.00
	KW	1.47	1.54	1.61	1.66	1.70	1.74	1.78	1.80
7	TCG	7.40	6.80	6.20	5.70	5.10	4.50	4.00	3.40
	SDT	32.00	36.00	41.00	45.00	50.00	54.00	58.00	63.00
	KW	1.51	1.59	1.66	1.74	1.80	1.84	1.89	1.92
10	TCG	8.50	7.70	7.10	6.40	5.80	5.20	4.70	4.10
	SDT	33.00	38.00	43.00	47.00	51.00	56.00	60.00	64.00
	KW	1.54	1.63	1.72	1.80	1.88	1.95	2.01	2.05
13	TCG	9.60	8.80	8.00	7.30	6.70	6.00	5.40	4.80
	SDT	35.00	39.00	44.00	49.00	53.00	57.00	62.00	66.00
	KW	1.58	1.67	1.77	1.86	1.95	2.04	2.12	2.20
24-AKR									
-1	TCG	7.10	6.40	5.80	5.10	4.50	3.80	3.20	2.50
	SDT	30.00	34.00	38.00	42.00	46.00	51.00	55.00	59.00
	KW	1.83	1.87	1.92	1.96	2.00	2.02	2.04	2.06
2	TCG	8.10	7.40	6.70	6.00	5.30	4.60	4.00	3.30
	SDT	31.00	35.00	40.00	44.00	48.00	52.00	57.00	61.00
	KW	1.89	1.98	2.02	2.08	2.12	2.16	2.20	2.23
4	TCG	9.20	8.40	7.60	6.90	6.20	5.50	4.80	4.10
	SDT	32.00	37.00	41.00	45.00	50.00	54.00	58.00	63.00
	KW	1.95	2.05	2.15	2.20	2.25	2.30	2.35	2.40
7	TCG	10.50	9.60	8.70	7.90	7.10	6.40	5.60	4.90
	SDT	34.00	38.00	43.00	47.00	51.00	56.00	60.00	64.00
	KW	2.01	2.12	2.23	2.33	2.39	2.45	2.51	2.57
10	TCG	11.90	10.90	9.90	9.10	8.20	7.40	6.60	5.90
	SDT	35.00	40.00	44.00	48.00	53.00	57.00	61.00	66.00
	KW	2.06	2.19	2.31	2.42	2.53	2.63	2.69	2.75
13	TCG	13.70	12.40	11.30	10.40	9.50	8.60	7.70	6.90
	SDT	36.00	41.00	46.00	50.00	54.00	59.00	63.00	67.00
	KW	2.11	2.26	2.39	2.52	2.64	2.75	2.87	2.98

SST = Saturated Temperature Entering Compressor (°C)

TCG = Gross Cooling Capacity (kW)

kW = Total Power (kW)

SDT = Saturated Temperature Leaving Compressor (°C)

CONDENSER ONLY RATINGS (S.I.)

SST deg °C		CONDENSER ENTERING AIR TEMPERATURES °C							
		13	18	24	29	35	41	46	52
30-AKR									
-1	TCG	8.20	7.50	6.80	6.10	5.50	4.80	4.10	3.40
	SDT	29.00	34.00	38.00	43.00	48.00	52.00	57.00	61.00
	KW	1.92	2.04	2.13	2.22	2.30	2.36	2.42	2.46
2	TCG	9.10	8.40	7.70	7.00	6.30	5.60	4.90	4.20
	SDT	31.00	35.00	40.00	45.00	49.00	54.00	58.00	63.00
	KW	2.02	2.14	2.24	2.35	2.44	2.52	2.59	2.65
4	TCG	10.20	9.50	8.70	7.90	7.20	6.50	5.80	5.00
	SDT	33.00	37.00	42.00	46.00	51.00	55.00	60.00	64.00
	KW	2.09	2.25	2.39	2.49	2.59	2.68	2.77	2.84
7	TCG	11.40	10.60	9.70	8.90	8.10	7.40	6.60	5.90
	SDT	35.00	39.00	43.00	48.00	53.00	57.00	62.00	66.00
	KW	2.17	2.34	2.50	2.64	2.77	2.87	2.96	3.05
10	TCG	12.60	11.80	10.90	10.00	9.20	8.40	7.60	6.80
	SDT	37.00	41.00	45.00	50.00	54.00	59.00	64.00	68.00
	KW	2.26	2.44	2.61	2.77	2.92	3.07	3.20	3.29
13	TCG	14.10	13.10	12.10	11.20	10.30	9.40	8.60	7.70
	SDT	38.00	43.00	48.00	52.00	56.00	61.00	65.00	70.00
	KW	2.33	2.53	2.73	2.90	3.07	3.23	3.38	3.53
36-AKR/AHR									
-1	TCG	9.40	8.70	7.90	7.10	6.30	5.40	4.50	3.50
	SDT	29.00	33.00	38.00	42.00	47.00	51.00	56.00	60.00
	KW	2.22	2.35	2.47	2.59	2.70	2.79	2.84	2.87
2	TCG	10.60	9.80	9.00	8.20	7.30	6.40	5.50	4.50
	SDT	30.00	35.00	39.00	44.00	48.00	53.00	57.00	62.00
	KW	2.33	2.47	2.60	2.73	2.86	2.97	3.05	3.11
4	TCG	11.80	11.00	10.10	9.30	8.40	7.50	6.50	5.50
	SDT	32.00	36.00	41.00	45.00	50.00	55.00	59.00	63.00
	KW	2.43	2.59	2.76	2.88	3.02	3.15	3.26	3.34
7	TCG	13.10	12.20	11.30	10.50	9.50	8.60	7.60	6.60
	SDT	34.00	38.00	43.00	47.00	52.00	56.00	61.00	65.00
	KW	2.53	2.70	2.88	3.06	3.21	3.35	3.48	3.58
10	TCG	14.50	13.60	12.70	11.70	10.70	9.70	8.70	7.70
	SDT	36.00	40.00	45.00	49.00	53.00	58.00	62.00	67.00
	KW	2.64	2.82	3.00	3.20	3.39	3.58	3.73	3.85
13	TCG	16.20	15.10	14.10	13.10	12.10	11.00	9.90	8.80
	SDT	37.00	42.00	47.00	51.00	55.00	60.00	64.00	69.00
	KW	2.75	2.94	3.14	3.34	3.55	3.75	3.96	4.16

SST = Saturated Temperature Entering Compressor (°C)

TCG = Gross Cooling Capacity (kW)

kW = Total Power (kW)

SDT = Saturated Temperature Leaving Compressor (°C)

CONDENSER ONLY RATINGS (S.I.)

SST deg °C		CONDENSER ENTERING AIR TEMPERATURES °C							
		13	18	24	29	35	41	46	52
42-AKR									
-1	TCG	12.30	11.30	10.30	9.30	8.30	7.30	6.20	5.10
	SDT	29.00	34.00	38.00	43.00	47.00	52.00	56.00	61.00
	KW	2.80	2.95	3.09	3.22	3.34	3.42	3.46	3.47
2	TCG	13.80	12.70	11.60	10.60	9.50	8.50	7.30	6.20
	SDT	31.00	35.00	40.00	44.00	49.00	53.00	58.00	62.00
	KW	2.91	3.13	3.28	3.42	3.54	3.65	3.72	3.75
4	TCG	15.50	14.20	13.10	11.90	10.80	9.70	8.50	7.30
	SDT	32.00	37.00	41.00	46.00	50.00	55.00	59.00	64.00
	KW	3.01	3.25	3.47	3.64	3.77	3.89	3.98	4.04
7	TCG	17.50	16.00	14.70	13.50	12.20	11.00	9.80	8.60
	SDT	33.00	38.00	43.00	47.00	52.00	57.00	61.00	65.00
	KW	3.10	3.37	3.62	3.84	4.04	4.17	4.27	4.34
10	TCG	19.80	18.10	16.60	15.20	13.80	12.50	11.20	9.90
	SDT	34.00	39.00	44.00	49.00	53.00	58.00	62.00	67.00
	KW	3.20	3.49	3.76	4.01	4.24	4.44	4.61	4.68
13	TCG	22.60	20.50	18.80	17.20	15.70	14.20	12.80	11.50
	SDT	36.00	41.00	46.00	50.00	55.00	59.00	64.00	68.00
	KW	3.27	3.61	3.91	4.18	4.43	4.65	4.85	5.02
48-AKR/AHR									
-1	TCG	13.80	13.00	12.20	11.40	10.50	9.50	8.40	7.20
	SDT	27.00	32.00	37.00	42.00	47.00	52.00	57.00	62.00
	KW	2.95	3.23	3.54	3.88	4.24	4.61	4.98	5.34
2	TCG	15.40	14.50	13.60	12.70	11.80	10.80	9.70	8.50
	SDT	28.00	33.00	38.00	43.00	48.00	53.00	58.00	63.00
	KW	3.05	3.36	3.67	4.01	4.39	4.78	5.18	5.57
4	TCG	16.90	16.00	15.10	14.20	13.20	12.20	11.10	9.80
	SDT	29.00	34.00	40.00	45.00	50.00	55.00	59.00	64.00
	KW	3.16	3.49	3.84	4.18	4.57	4.97	5.39	5.81
7	TCG	18.70	17.80	16.80	15.80	14.80	13.70	12.60	11.30
	SDT	30.00	36.00	41.00	46.00	51.00	56.00	61.00	65.00
	KW	3.25	3.59	3.94	4.33	4.76	5.19	5.61	6.05
10	TCG	20.70	19.60	18.60	17.50	16.40	15.40	14.20	13.00
	SDT	32.00	37.00	42.00	47.00	52.00	57.00	61.00	66.00
	KW	3.35	3.68	4.05	4.45	4.88	5.35	5.85	6.34
13	TCG	23.10	21.80	20.70	19.50	18.30	17.20	16.00	14.70
	SDT	33.00	38.00	43.00	48.00	53.00	58.00	63.00	67.00
	KW	3.44	3.79	4.16	4.56	5.01	5.48	5.99	6.53

SST = Saturated Temperature Entering Compressor (°C)

TCG = Gross Cooling Capacity (kW)

kW = Total Power (kW)

SDT = Saturated Temperature Leaving Compressor (°C)

CONDENSER ONLY RATINGS (S.I.)

SST deg °C		CONDENSER ENTERING AIR TEMPERATURES °C							
		13	18	24	29	35	41	46	52
60-AKR/AHR									
-1	TCG	18.20	17.20	16.00	14.90	13.70	12.40	11.00	9.40
	SDT	31.00	36.00	41.00	46.00	51.00	56.00	60.00	65.00
	KW	3.54	3.92	4.34	4.80	5.29	5.79	6.27	6.74
2	TCG	20.10	19.00	17.80	16.70	15.40	14.10	12.70	11.10
	SDT	32.00	37.00	42.00	47.00	52.00	57.00	62.00	67.00
	KW	3.70	4.09	4.51	4.98	5.50	6.02	6.54	7.06
4	TCG	22.10	21.00	19.80	18.50	17.20	15.90	14.40	12.80
	SDT	34.00	39.00	44.00	49.00	54.00	59.00	64.00	68.00
	KW	3.82	4.25	4.73	5.21	5.75	6.30	6.85	7.40
7	TCG	24.30	23.10	21.80	20.50	19.10	17.70	16.20	14.50
	SDT	36.00	41.00	46.00	50.00	56.00	61.00	65.00	70.00
	KW	3.96	4.40	4.89	5.42	6.01	6.64	7.23	7.81
10	TCG	26.70	25.40	24.00	22.60	21.10	19.70	18.10	16.40
	SDT	38.00	43.00	47.00	52.00	57.00	62.00	67.00	72.00
	KW	4.12	4.57	5.07	5.63	6.22	6.87	7.56	8.27
13	TCG	29.40	27.90	26.50	25.00	23.40	21.80	20.20	18.40
	SDT	40.00	45.00	50.00	54.00	59.00	64.00	69.00	74.00
	KW	4.31	4.76	5.28	5.85	6.45	7.13	7.84	8.58

SST = Saturated Temperature Entering Compressor (°C)

TCG = Gross Cooling Capacity (kW)

kW = Total Power (kW)

SDT = Saturated Temperature Leaving Compressor (°C)

CONDENSER ONLY RATINGS (ENGLISH)

SST deg ° F		CONDENSER ENTERING AIR TEMPERATURES ° F							
		55	65	75	85	95	105	115	125
18-AKR									
30	TCG	17.50	15.90	14.20	12.60	10.90	9.20	7.40	5.50
	SDT	81.10	89.00	97.00	104.90	113.00	120.90	128.70	136.50
	KW	1.39	1.43	1.47	1.51	1.54	1.56	1.57	1.55
35	TCG	19.90	18.10	16.40	14.70	12.90	11.20	9.40	7.50
	SDT	83.80	91.80	99.70	107.60	115.50	123.60	131.40	139.20
	KW	1.43	1.50	1.53	1.58	1.62	1.65	1.67	1.68
40	TCG	22.40	20.60	18.70	16.90	15.10	13.30	11.50	9.50
	SDT	86.90	94.60	102.60	110.40	118.30	126.30	134.20	142.00
	KW	1.47	1.54	1.61	1.66	1.70	1.74	1.78	1.80
45	TCG	25.40	23.20	21.30	19.30	17.40	15.50	13.60	11.70
	SDT	89.50	97.70	105.60	113.40	121.20	129.20	137.10	145.00
	KW	1.51	1.59	1.66	1.74	1.80	1.84	1.89	1.92
50	TCG	28.80	26.40	24.10	22.00	19.90	17.90	15.90	14.00
	SDT	92.10	100.30	108.60	116.70	124.40	132.20	140.20	148.10
	KW	1.54	1.63	1.72	1.80	1.88	1.95	2.01	2.05
55	TCG	32.80	30.00	27.40	25.10	22.80	20.50	18.40	16.30
	SDT	94.60	103.00	111.30	119.40	127.50	135.50	143.40	151.30
	KW	1.58	1.67	1.77	1.86	1.95	2.04	2.12	2.20
24-AKR									
30	TCG	24.20	22.00	19.70	17.50	15.30	13.10	10.90	8.70
	SDT	85.30	93.10	100.50	107.90	115.40	123.10	130.90	138.70
	KW	1.83	1.87	1.92	1.96	2.00	2.02	2.04	2.06
35	TCG	27.60	25.10	22.70	20.40	18.00	15.80	13.50	11.20
	SDT	87.50	95.70	103.60	110.90	118.40	126.10	133.80	141.60
	KW	1.89	1.98	2.02	2.08	2.12	2.16	2.20	2.23
40	TCG	31.40	28.70	26.10	23.60	21.00	18.60	16.30	13.90
	SDT	90.10	98.10	106.10	113.90	121.60	129.10	136.90	144.60
	KW	1.95	2.05	2.15	2.20	2.25	2.30	2.35	2.40
45	TCG	35.80	32.60	29.80	27.10	24.40	21.70	19.20	16.80
	SDT	92.60	100.80	108.70	116.40	124.20	132.00	139.90	147.70
	KW	2.01	2.12	2.23	2.33	2.39	2.45	2.51	2.57
50	TCG	40.70	37.10	33.90	31.00	28.10	25.30	22.60	20.00
	SDT	95.20	103.40	111.40	119.20	126.90	134.60	142.40	150.30
	KW	2.06	2.19	2.31	2.42	2.53	2.63	2.69	2.75
55	TCG	46.70	42.20	38.60	35.30	32.30	29.30	26.30	23.50
	SDT	97.40	106.10	114.20	122.00	129.70	137.40	145.10	152.80
	KW	2.11	2.26	2.39	2.52	2.64	2.75	2.87	2.98

SST = Saturated Temperature Entering Compressor (°F)

TCG = Gross Cooling Capacity (x1000 BTU/hr)

kW = Total Power (kW)

SDT = Saturated Temperature Leaving Compressor (°F)

CONDENSER ONLY RATINGS (ENGLISH)

SST deg ° F		CONDENSER ENTERING AIR TEMPERATURES ° F							
		55	65	75	85	95	105	115	125
30-AKR									
30	TCG	27.90	25.50	23.20	20.80	18.70	16.40	14.10	11.80
	SDT	84.60	92.90	101.10	109.40	117.80	126.10	134.30	142.50
	KW	1.92	2.04	2.13	2.22	2.30	2.36	2.42	2.46
35	TCG	31.20	28.80	26.30	23.90	21.50	19.20	16.80	14.40
	SDT	87.60	95.80	103.90	112.20	120.50	128.90	137.10	145.20
	KW	2.02	2.14	2.24	2.35	2.44	2.52	2.59	2.65
40	TCG	34.90	32.30	29.70	27.10	24.60	22.10	19.70	17.10
	SDT	90.70	98.80	107.10	115.20	123.40	131.80	140.00	148.10
	KW	2.09	2.25	2.39	2.49	2.59	2.68	2.77	2.84
45	TCG	38.80	36.00	33.30	30.50	27.80	25.20	22.70	20.10
	SDT	94.20	102.20	110.30	118.40	126.50	134.80	143.00	151.10
	KW	2.17	2.34	2.50	2.64	2.77	2.87	2.96	3.05
50	TCG	43.20	40.10	37.10	34.20	31.30	28.50	25.80	23.10
	SDT	97.90	105.80	113.80	121.90	129.90	138.10	146.30	154.40
	KW	2.26	2.44	2.61	2.77	2.92	3.07	3.20	3.29
55	TCG	48.20	44.60	41.30	38.20	35.20	32.10	29.30	26.40
	SDT	101.10	109.40	117.60	125.60	133.70	141.50	149.70	157.90
	KW	2.33	2.53	2.73	2.90	3.07	3.23	3.38	3.53
36-AKR/AHR									
30	TCG	32.20	29.70	27.10	24.30	21.50	18.50	15.30	11.90
	SDT	83.60	91.90	100.10	108.30	116.60	124.70	132.50	140.20
	KW	2.22	2.35	2.47	2.59	2.70	2.79	2.84	2.87
35	TCG	36.00	33.50	30.80	27.90	24.90	21.90	18.70	15.20
	SDT	86.40	94.60	102.90	111.00	119.20	127.40	135.30	143.00
	KW	2.33	2.47	2.60	2.73	2.86	2.97	3.05	3.11
40	TCG	40.20	37.40	34.60	31.60	28.60	25.50	22.20	18.70
	SDT	89.30	97.50	105.80	113.90	122.00	130.20	138.20	146.00
	KW	2.43	2.59	2.76	2.88	3.02	3.15	3.26	3.34
45	TCG	44.70	41.70	38.70	35.70	32.40	29.20	25.90	22.40
	SDT	92.60	100.70	108.80	117.10	125.10	133.20	141.20	149.00
	KW	2.53	2.70	2.88	3.06	3.21	3.35	3.48	3.58
50	TCG	49.60	46.40	43.20	40.00	36.60	33.10	29.80	26.20
	SDT	96.00	104.10	112.10	120.30	128.30	136.40	144.40	152.30
	KW	2.64	2.82	3.00	3.20	3.39	3.58	3.73	3.85
55	TCG	55.30	51.50	48.10	44.60	41.10	37.40	33.80	30.10
	SDT	99.00	107.50	115.70	123.80	131.80	139.70	147.80	155.70
	KW	2.75	2.94	3.14	3.34	3.55	3.75	3.96	4.16

SST = Saturated Temperature Entering Compressor (°F)

TCG = Gross Cooling Capacity (x1000 BTU/hr)

kW = Total Power (kW)

SDT = Saturated Temperature Leaving Compressor (°F)

CONDENSER ONLY RATINGS (ENGLISH)

SST deg ° F		CONDENSER ENTERING AIR TEMPERATURES ° F							
		55	65	75	85	95	105	115	125
42-AKR									
30	TCG	41.90	38.60	35.20	31.70	28.40	24.90	21.20	17.30
	SDT	84.60	92.60	100.70	108.90	117.10	125.20	133.20	141.00
	KW	2.80	2.95	3.09	3.22	3.34	3.42	3.46	3.47
35	TCG	47.00	43.20	39.70	36.00	32.50	28.90	25.10	21.10
	SDT	87.00	95.60	103.70	111.70	119.80	128.00	135.90	143.70
	KW	2.91	3.13	3.28	3.42	3.54	3.65	3.72	3.75
40	TCG	53.00	48.60	44.60	40.60	36.80	33.00	29.20	25.10
	SDT	89.30	97.90	106.40	114.70	122.70	130.90	138.80	146.60
	KW	3.01	3.25	3.47	3.64	3.77	3.89	3.98	4.04
45	TCG	59.70	54.80	50.20	45.90	41.60	37.50	33.40	29.20
	SDT	91.60	100.40	108.90	117.20	125.50	133.70	141.80	149.60
	KW	3.10	3.37	3.62	3.84	4.04	4.17	4.27	4.34
50	TCG	67.70	61.80	56.70	51.90	47.20	42.60	38.40	33.90
	SDT	94.00	102.80	111.40	119.70	128.00	136.20	144.20	152.20
	KW	3.20	3.49	3.76	4.01	4.24	4.44	4.61	4.68
55	TCG	77.20	70.00	64.00	58.60	53.60	48.40	43.80	39.20
	SDT	96.10	105.30	113.90	122.30	130.50	138.70	146.70	154.60
	KW	3.27	3.61	3.91	4.18	4.43	4.65	4.85	5.02
48-AKR/AHR									
30	TCG	47.10	44.50	41.70	38.80	35.80	32.40	28.60	24.40
	SDT	80.90	89.70	98.60	107.60	116.60	125.50	134.30	143.00
	KW	2.95	3.23	3.54	3.88	4.24	4.61	4.98	5.34
35	TCG	52.70	49.40	46.50	43.40	40.40	36.90	33.10	28.90
	SDT	82.30	92.00	100.90	109.80	118.80	127.80	136.60	145.20
	KW	3.05	3.36	3.67	4.01	4.39	4.78	5.18	5.57
40	TCG	57.70	54.60	51.50	48.30	45.10	41.70	37.80	33.60
	SDT	84.90	94.10	103.30	112.10	121.20	130.10	139.00	147.70
	KW	3.16	3.49	3.84	4.18	4.57	4.97	5.39	5.81
45	TCG	63.80	60.80	57.30	53.80	50.40	46.90	43.00	38.70
	SDT	86.90	96.00	105.00	114.00	123.00	132.00	141.00	149.80
	KW	3.25	3.59	3.94	4.33	4.76	5.19	5.61	6.05
50	TCG	70.80	67.00	63.50	59.80	56.10	52.50	48.60	44.30
	SDT	88.80	98.00	107.00	116.00	124.90	133.80	142.70	151.50
	KW	3.35	3.68	4.05	4.45	4.88	5.35	5.85	6.34
55	TCG	78.70	74.40	70.50	66.70	62.50	58.70	54.70	50.30
	SDT	90.80	100.00	109.10	118.00	126.90	135.80	144.60	153.30
	KW	3.44	3.79	4.16	4.56	5.01	5.48	5.99	6.53

SST = Saturated Temperature Entering Compressor (°F)

TCG = Gross Cooling Capacity (x1000 BTU/hr)

kW = Total Power (kW)

SDT = Saturated Temperature Leaving Compressor (°F)

CONDENSER ONLY RATINGS (ENGLISH)

SST deg ° F		CONDENSER ENTERING AIR TEMPERATURES ° F							
		55	65	75	85	95	105	115	125
60-AKR/AHR									
30	TCG	62.10	58.50	54.70	50.90	46.90	42.40	37.50	32.20
	SDT	87.20	96.10	105.10	114.10	123.20	132.10	140.80	149.30
	KW	3.54	3.92	4.34	4.80	5.29	5.79	6.27	6.74
35	TCG	68.50	64.80	60.90	56.80	52.70	48.20	43.20	37.80
	SDT	90.10	98.90	107.80	116.80	125.90	134.90	143.60	152.20
	KW	3.70	4.09	4.51	4.98	5.50	6.02	6.54	7.06
40	TCG	75.50	71.50	67.40	63.10	58.80	54.20	49.10	43.60
	SDT	93.00	101.90	110.90	119.70	128.90	137.90	146.60	155.20
	KW	3.82	4.25	4.73	5.21	5.75	6.30	6.85	7.40
45	TCG	83.00	78.80	74.50	69.80	65.20	60.40	55.30	49.70
	SDT	96.30	105.10	114.00	122.90	131.90	141.00	149.80	158.40
	KW	3.96	4.40	4.89	5.42	6.01	6.64	7.23	7.81
50	TCG	91.30	86.70	82.00	77.30	72.20	67.20	61.70	55.90
	SDT	99.90	108.60	117.40	126.30	135.10	144.20	153.10	161.90
	KW	4.12	4.57	5.07	5.63	6.22	6.87	7.56	8.27
55	TCG	100.20	95.30	90.30	85.20	79.70	74.50	68.80	62.80
	SDT	103.90	112.40	121.20	130.00	138.70	147.70	156.60	165.40
	KW	4.31	4.76	5.28	5.85	6.45	7.13	7.84	8.58

SST = Saturated Temperature Entering Compressor (°F)

TCG = Gross Cooling Capacity (x1000 BTU/hr)

kW = Total Power (kW)

SDT = Saturated Temperature Leaving Compressor (°F)

ACCESSORIES

PART NO.	DESCRIPTION
KAATD0101TDR	Time-Delay Relay – All Sizes
KSALA0401AAA	MotorMaster®-Low-Ambient Controller – Sizes 30–60
N/A	MotorMaster®-Low-Ambient Controller – Sizes 18, 24
KSALA0201R22	Low Ambient Pressure Switch– All Sizes
HC34GE232 (RCD)	Ball Bearing Fan Motor – Size 30
HC40GE232 (RCD)	Ball Bearing Fan Motor – Sizes 36–60
N/A	Ball Bearing Fan Motor – Sizes 18, 24
KAAFT0101AAA	Evaporator Freeze Thermostat – All Sizes
KAAWS0101AAA	Winter Start Control – All Sizes
KSACG0105CMC	Inlet Grille Kit – Size 18
KSACG0205CMC	Inlet Grille Kit – Size 24
KSACG0604CSM	Inlet Grille Kit – Size 30
KSACG0704CSM	Inlet Grille Kit – Size 36 (AKR)
KSACG0804CSM	Inlet Grille Kit – Size 36 (AHR)
KSACG1004CSM	Inlet Grille Kit – Size 42
KSACG1204CSM	Inlet Grille Kit – Size 48
KSACG2004CMD	Inlet Grille Kit – Size 60
KSACY0101AAA	Cycle Protector – All Sizes
KSAHS2001AAA	Start Assist – Capacitor and Relay – Sizes 18, 24
KSAHS0901AAA	Start Assist – Capacitor and Relay – Size 30
KSAHS1901AAA	Start Assist – Capacitor and Relay – Size 36
KSAHS1501AAA	Start Assist – Capacitor and Relay – Size 48
KSAHS1601AAA	Start Assist – Capacitor and Relay – Size 60
KSAHS2201AAA	Start Assist – Capacitor and Relay – Size 42
KAACS0201PTC	Start Assist – PTC – All 1-Phase
KAACH1001AAA	Crankcase Heater – Sizes 18–42
KAACH1201AAA	Crankcase Heater – Sizes 48, 60
KSASH1201COP	Sound Hood – Sizes 36 (AHR), 42
KSASH2001BRL	Sound Hood – Size 36 (AKR)
KSASH2001CYL	Sound Hood – Sizes 48, 60
N/A	Sound Hood – Sizes 18–30
KAATX0201RPB	Thermostatic Expansion Valve (RPB) – Size 18
KAATX0301RPB	Thermostatic Expansion Valve (RPB) – Size 24
KAATX0401RPB	Thermostatic Expansion Valve (RPB) – Size 30
KAATX0501RPB	Thermostatic Expansion Valve (RPB) – Sizes 36, 42
KAATX0601RPB	Thermostatic Expansion Valve (RPB) – Size 48
KAATX0701RPB	Thermostatic Expansion Valve (RPB) – Size 60
KSATX0601HSO	Thermostatic Expansion Valve (Hard Shutoff) – Sizes 18–42
KSATX0701HSO	Thermostatic Expansion Valve (Hard Shutoff) – Size 48
KSATX1001HSO	Thermostatic Expansion Valve (Hard Shutoff) – Size 60
KAALP0101LPS	Low-Pressure Switch – All Sizes
KSAHI0101HPS	High-Pressure Switch – All Sizes
P502-8083S (RCD)	Filter Drier – Sizes 18–36
P502-8163S (RCD)	Filter Drier – Sizes 42–60
KAALS0101LLS*	Liquid-Line Solenoid Valve – All Sizes
KAACF0701SML	Coastal Filter – Sizes 18, 24
KAACF1001MED	Coastal Filter – Sizes 30–48
KAACF1101LRG	Coastal Filter – Size 60

* Start assist capacitor and relay required when using liquid solenoid valve or hard shutoff TXV (except 48 & 60 Series AKR single phase, and all 3-phase units). Do not use hard shutoff TXV with liquid solenoid valve.

ACCESSORY USAGE GUIDELINE

ACCESSORY	REQUIRED FOR LOW-AMBIENT APPLICATION* (Below 55 ° F / 12.8 ° C)	REQUIRED FOR LONG-LINE APPLICATIONS* (Over 80 Ft / 24.4 m)	REQUIRED FOR SEA COAST APPLICATIONS (Within 2 Mi / 3.2 km)
Crankcase Heater	Yes	Yes	No
Evaporator Freeze Thermostat	Yes	No	No
Winter Start Control	Yes†	No	No
Accumulator	No	No	No
Compressor Start Assist Capacitor and Relay	Yes	Yes	No
MotorMaster® Low Ambient Controller or Low-Ambient Pressure Switch	Yes	No	No
Wind Baffle	See low-ambient Instructions	No	No
Coastal Filter	No	No	Yes
Support Feet	Recommended	No	Recommended
Liquid-Line Solenoid Valve or Hard Shutoff TXV	No	See Long-Line Application Guideline	No
Ball Bearing Fan Motor	Yes‡	No	No

* For tubing line sets longer than 80 ft (24.4 m) or more than 20 ft (6.1 m) vertical differential, refer to Long Line Application Guideline.

† Only when low-pressure switch is used.

‡ Required for Low-Ambient Controller (full modulation feature) and MotorMaster® Control only.

ACCESSORY DESCRIPTION AND USAGE (LISTED ALPHABETICALLY)

1. Ball-Bearing Fan Motor

A fan motor with ball bearings, which permits speed reduction while maintaining bearing lubrication.

SUGGESTED USE: Required on all units when Motor Master® Low-Ambient Controller is installed.

2. Coastal Filter

A mesh screen inserted under the top cover and inside the base pan to protect the condenser coil from salt damage without restricting airflow.

SUGGESTED USE: In geographic areas where salt damage could occur.

3. Compressor Start Assist – Capacitor/Relay Type

Start capacitor and start relay gives “hard” boost to compressor motor at each start-up.

SUGGESTED USE: Required for reciprocating compressors in the following applications:

- Long line
- Low ambient
- Hard shut off expansion valve on indoor coil
- Liquid line solenoid on indoor coil

Required for scroll compressors in the following applications:

- Long line
- Low ambient

All compressors in areas with a history of low voltage problems.

4. Compressor Start Assist – PTC Type

Solid-state electrical device which gives a “soft” boost to the compressor at each start-up.

SUGGESTED USE: Installations with marginal power supply.

Replacement installations with rapid pressure balance (RPB) expansion valve on indoor coil.

(continued)

ACCESSORY DESCRIPTION AND USAGE (CONTINUED)**5. Crankcase Heater**

An electric resistance heater which mounts to the base of the compressor to keep the lubricant warm during off cycles. Improves compressor lubrication on restart and minimizes chance of refrigerant slugging. May or may not include a thermostat control.

SUGGESTED USE: Required in low ambient applications.
Required in long line applications.
All commercial applications.

6. Cycle Protector

Solid-state timing device which prevents compressor rapid recycling. Control provides an approximate 5-minute delay after power to the compressor has been interrupted for any reason, including normal room thermostat cycling.

SUGGESTED USE: Installations in areas where power interruptions are frequent.
Where user is likely to "play" with the room thermostat.
All commercial installations.
Installations where interconnecting tube length exceeds 50 ft (15.24 m).
High-rise applications.

7. Evaporator Freeze Thermostat

A SPST temperature actuated switch which stops unit operation when evaporator reaches freeze-up conditions.

SUGGESTED USE: All units where winter start control has been added.
Required when low ambient kit has been added.

8. Filter Drier

A device for removing contaminants from refrigerant circulating in an air conditioning system: single-direction flow.

SUGGESTED USE: All field-connected split-system air conditioners.

9. High-Pressure Switch

Auto reset SPST switch activated by refrigerant pressure on high side of refrigerant circuit. Cycles compressor off if refrigerant pressure rises to 426 ± 10 psig and resets at 320 ± 20 psig. Provides protection against compressor damage due to loss of outdoor airflow.

SUGGESTED USE: Installations exposed to "very dirty" outdoor air. Suggested in installations where condenser inlet air temperature exceeds 125°F . (51.7°C)

10. Liquid-Line Solenoid Valve (LSV)

This device serves two purposes. It is an electrically operated shutoff valve which stops and starts refrigerant liquid flow in response to compressor operation. It maintains a column of refrigerant liquid ready for action at next compressor operation cycle. It also provides system protection against off-cycle refrigerant migration.

NOTE: When LLS is used with reciprocating compressors, Compressor Start Assist – Capacitor & Relay is required.

SUGGESTED USE: Required in air conditioner long line applications with a piston indoor metering device to prevent off cycle refrigerant migration. A hard shut off TXV can be used instead of LLS in single flow air conditioner applications. See Long Line Application Guideline.

11. Low-Ambient Pressure Switch

A long life pressure switch which is mounted to outdoor unit service valve. It is designed to cycle the outdoor fan motor in order to maintain head pressure within normal operating limits (approximately 100 psig to 225 psig). The control will maintain working head pressure at low-ambient temperatures down to 0°F (-17.8°C) when properly installed.

SUGGESTED USE: A Low-Ambient Pressure Switch or Motor Master®-Low-Ambient Controller must be used when cooling operation is used at outdoor temperatures below 55°F (12.8°C).

12. MotorMaster® Low-Ambient Controller

A fan speed control device activated by a temperature sensor. Designed to control condenser fan motor speed in response to the saturated condensing temperature during operation in cooling mode only. For outdoor temperatures down to -20°F (-28.9°C), it maintains condensing temperature at $100^{\circ}\text{F} \pm 10^{\circ}\text{F}$ ($37.8^{\circ}\text{C} \pm 12.2^{\circ}\text{C}$).

SUGGESTED USE: Cooling operation at outdoor temperatures below 55°F (12.8°C).
All commercial installations.

13. Sound Hood

Wraparound sound reducing cover for the compressor. Reduces the sound level by about 2 dBA.

SUGGESTED USE: When unit is installed closer than 15 ft (4.6 m) to quiet areas – bedrooms, etc.
When unit is installed between two houses less than 10 ft (3 m) apart.

(continued)

ACCESSORY DESCRIPTION AND USAGE (CONTINUED)**14. Support Feet**

Four stick-on plastic feet which raise the unit 4 in. (10.16 cm) above the mounting pad. This allows sand, dirt, and other debris to be flushed from the unit base; minimizes corrosion.

SUGGESTED USE: Coastal installations.
Windy areas or where debris is normally circulating.
Rooftop installations.

15. Thermostatic Expansion Valve (TXV)

A modulating flow-control valve which meters refrigerant liquid flow rate into the evaporator in response to the superheat of the refrigerant gas leaving the evaporator. Kit includes valve, adapter tubes, and external equalizer tube. Both hard shutoff and RPB valves are available.

NOTE: When using a hard shut off TXV with single phase reciprocating compressors, a Compressor Start Assist – Capacitor and Relay is required.

SUGGESTED USE: Required to achieve ARI ratings in certain equipment combinations. Refer to combination ratings.
Hard shut off TXV or LLS required in air conditioner long line applications.
Required for use on all zoning systems.

16. Time-Delay Relay

A SPST delay relay which briefly continues operation of the indoor blower motor to provide additional cooling after the compressor cycles off.

SUGGESTED USE: For improved efficiency ratings for certain combinations of indoor and outdoor units.
Refer to ARI Unitary Directory.

17. Winter Start Control

A SPST delay relay which bypasses the low-pressure switch for approximately 3 minutes to permit start-up for cooling operation under low-load conditions.

SUGGESTED USE: All air conditioners where low-ambient controller has been added.