



### 50 Hz HEAT PUMP

### ENVIRONMENTALLY SOUND R-410A REFRIGERANT

### 2 THRU 5 TONS SPLIT SYSTEM

230 Volt, 1-phase, 50 Hz

400 Volt, 3-phase, 50 Hz

#### REFRIGERATION CIRCUIT

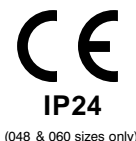
- Copeland Scroll™ compressors on all models
- Suction line accumulator factory installed
- Integrated solid state control with Time-Temperature Defrost
- High and Low pressure switches
- Copper tube / aluminum fin coil

#### EASY TO INSTALL AND SERVICE

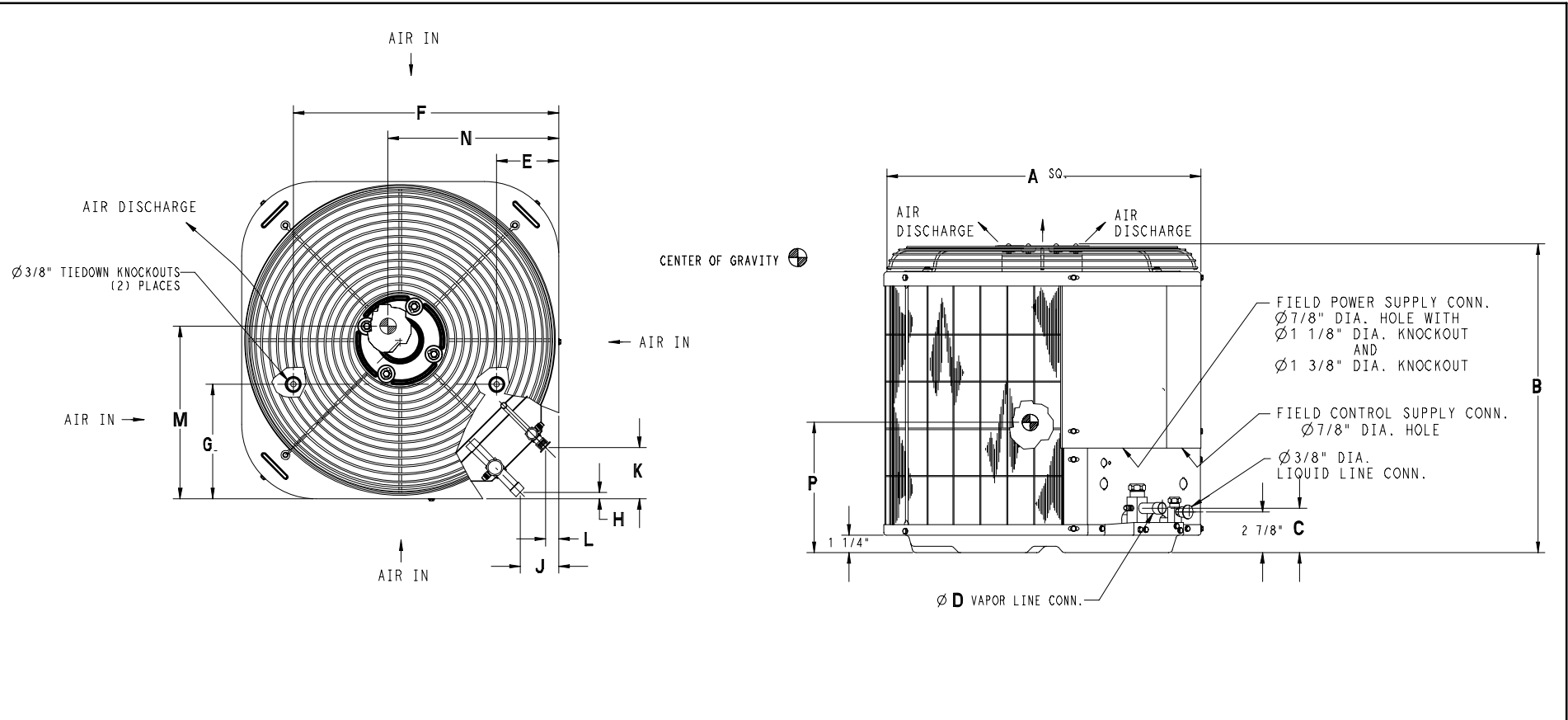
- Easy Access service valves on all models
- External high and low refrigerant service ports
- Only two screws to access control panel
- Factory charged with R-410A refrigerant

#### BUILT TO LAST

- Pre-painted cabinet finish over galvanized steel
- Coated inlet grille with 2" (51mm) spacing
- Corrosion protective coated aluminum fin, capable of 1000 hr salt spray exposure per ASTM B117 test

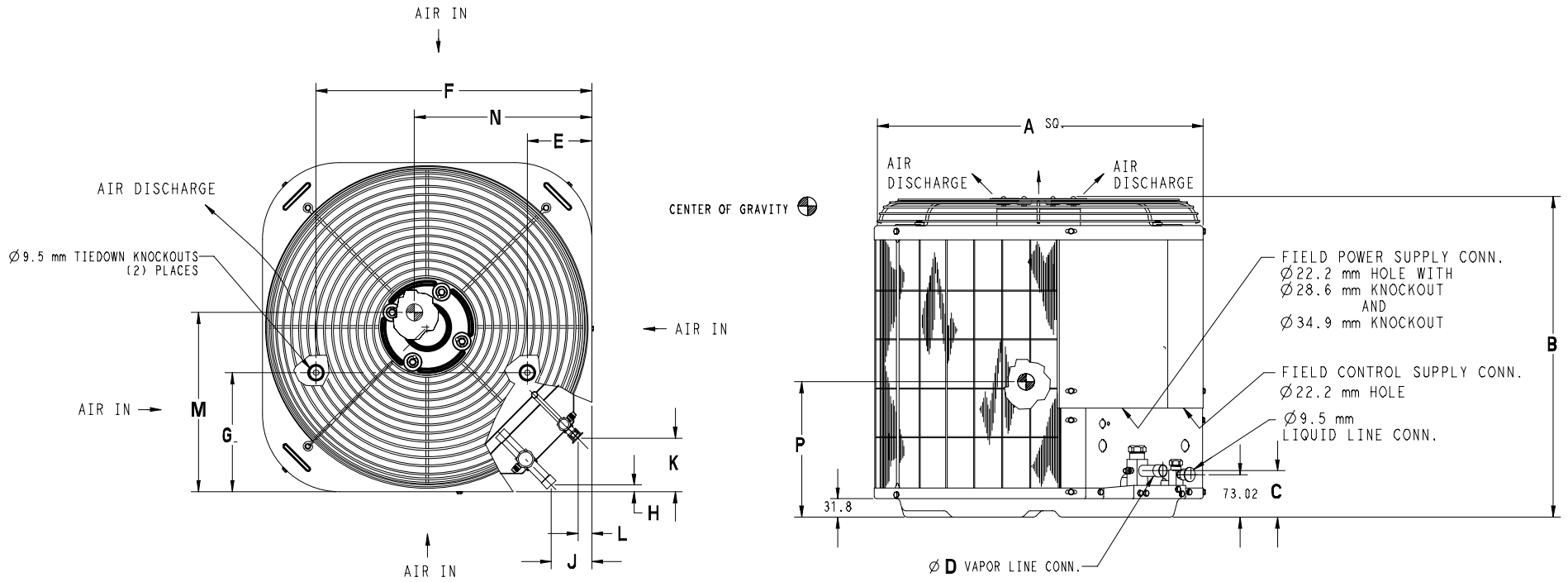


Model Number	Size (tons)	Nominal BTU/hr	Min. Circuit Ampacity	Max. Fuse or Breaker	Operating Dimensions height x width x depth in. (mm)	Shipping Weight lbs.(kg)
Single-Phase, 230V						
R4HE24PWA	2	24,000	16.2	25	29 <sup>15</sup> / <sub>16</sub> x 22 <sup>1</sup> / <sub>2</sub> x 22 <sup>1</sup> / <sub>2</sub> (760 x 572 x 572)	162 (74)
R4HE36PWA	3	36,000	24.0	40	29 <sup>15</sup> / <sub>16</sub> x 30 x 30 (760 x 762 x 762)	210 (95)
3-Phase, 400V						
R4HE36PZA	3	36,000	8.7	15	29 <sup>15</sup> / <sub>16</sub> x 30 x 30 (760 x 762 x 762)	210 (95)
R4HE48PZA	4	48,000	12.0	20	39 <sup>15</sup> / <sub>16</sub> x 30 x 30 (1014 x 762 x 762)	251 (114)
R4HE60PZA	5	60,000	14.0	20	33 <sup>15</sup> / <sub>16</sub> x 30 x 30 (862 x 762 x 762)	272 (124)



All Dimensions Inches (English)

Model	All Dimensions Inches (English)														
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Minimum Mounting Pad Size
R4HE24PWA	22½	29 <sup>15</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>16</sub>	5/8	3 <sup>1</sup> / <sub>16</sub>	18 <sup>1</sup> / <sub>8</sub>	8 <sup>1</sup> / <sub>8</sub>	7/16	2¾	3 <sup>5</sup> / <sub>8</sub>	7/8	17½	11½	14	22½ x 22½
R4HE36PWA	30	29 <sup>15</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>16</sub>	¾	6½	23½	10	7/16	2¾	3 <sup>5</sup> / <sub>8</sub>	7/8	16	14	12½	30 x 30
3-Phase															
R4HE36PZA	30	29 <sup>15</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>16</sub>	¾	6½	23½	10	7/16	2¾	3 <sup>5</sup> / <sub>8</sub>	7/8	16	14	12½	30 x 30
R4HE48PZA	30	39 <sup>15</sup> / <sub>16</sub>	3¼	7/8	6½	23½	10	7/16	2¾	3 <sup>5</sup> / <sub>8</sub>	7/8	14¼	15	14	30 x 30
R4HE60PZA	30	33 <sup>15</sup> / <sub>16</sub>	3¼	7/8	6½	23½	10	7/16	2¾	3 <sup>5</sup> / <sub>8</sub>	7/8	14 <sup>3</sup> / <sub>8</sub>	16¼	15	30 x 30



Model	All Dimensions mm (SI Metric)														Minimum Mounting Pad Size
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	
R4HE24PWA	572	760	81	16	94	460	206	11	70	92	22	445	292	356	572 x 572
R4HE36PWA	762	760	81	19	165	254	254	11	70	92	22	406	356	318	762 x 762
3-Phase															
R4HE36PZA	762	760	81	19	165	254	254	11	70	92	22	406	356	318	762 x 762
R4HE48PZA	762	1014	83	22	165	254	254	11	70	92	22	362	381	356	762 x 762
R4HE60PZA	762	862	83	22	165	254	254	11	70	92	22	365	413	381	762 x 762

PHYSICAL DATA						
Model Size		Single-Phase		3-Phase		
		24PWA	36PWA	36PZA	48PZA	60PZA
PSC Fan Motor HP		1/10	1/4	1/4	1/4	1/4
Fan RPM (single speed)		900	900	900	900	900
Fan CFM (L/s)		1500 (708)	2700 (1274)	2700 (1274)	3000 (1416)	3000 (1416)
Coil Face Area ft <sup>2</sup> (m <sup>2</sup> )		11 (1.0)	16 (1.49)	16 (1.49)	22 (2.06)	19 (1.72)
Metering Device Piston Identification	Outdoor	40	49	49	65	73
	Indoor	52	65	65	76	88
Liquid Line Connection Size in. (mm)		3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)
Vapor Line Connection Size in. (mm)		5/8 (16)	3/4 (19)	3/4 (19)	7/8 (22)	7/8 (22)
Recommended Line Set Liquid Tube Diameter in. (mm)		3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)
Recommended Line Set Vapor Tube Diameter in. (mm)		5/8 (16)*	3/4 (19)*	3/4 (19)*	7/8 (22)*	1 1/8 (29)*
* Recommended Vapor Tube Line size is for standard installations. These recommendations may not apply to "Long Line" installations. When the total equivalent line length exceeds 80 feet (24.4m) or there is more than 20 feet (6.1m) vertical separation between indoor and outdoor units, consult the Long Line Application Guideline document before purchasing/installing line sets.						
Factory Charge R-410A lbs. (kg)		5.75 (2.61)	8.13 (3.69)	8.13 (3.69)	10.63 (4.82)	14.00 (6.35)
Weight, shipping lbs. (kg)		162 (74)	210 (95)	210 (95)	251 (114)	272 (124)
Min Wire Size 75°C †		14	12	14	14	14
Max Wire Length ft. (m) 75°C ‡		144 (44)	164 (50)	272 (83)	203 (62)	177 (54)

† If wire is applied at ambient greater than 30°C, consult table 310-16 of the NEC (NFPA 70). The ampacity of non-metallic-sheathed cable (NM), trade name ROMEX, shall be that of 60°C conditions, per the NEC (NFPA 70) Article 336-26. If other than uncoated (no-plated), 60 or 75°C insulation, copper wire (solid wire for 10 AWG or smaller, stranded wire for larger than 10 AWG) is used, consult applicable tables of the NEC (NFPA 70).

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

ELECTRICAL DATA					
Model Size	Single-Phase 230-1-50, voltage range 207V-253V		3-Phase 400-3-50, voltage range 376V-424V		
	24	36	36	48	60
Minimum Circuit Ampacity – MCA (amps)	16.2	24.0	8.7	12.0	14.0
Maximum OverCurrent Protective device – MOCP (amps)	25	40	15	20	20
Compressor RLA (Rated Load Amps) LRA (Locked Rotor Amps)	12.5 61.0	17.9 100.5	6.4 48.0	9.0 64.0	10.6 74.0
Fan Motor FLA (Full Load Amps)	0.6	1.6	0.7	0.7	0.7

A-WEIGHTED SOUND POWER (dBA)									
MODEL SIZE	SOUND LEVEL (dBA) With Sound Shield	SOUND LEVEL (dBA) Without Sound Shield	TYPICAL OCTAVE BAND (dBA, without tone adjustment)						
			125	250	500	1000	2000	4000	8000
24	72	74	76.0	69.0	66.0	65.5	61.5	58.0	56.0
36	72	74	71.5	68.0	68.5	67.5	65.5	61.5	53.5
48	72	74	67.5	66.0	69.5	67.5	63.0	60.5	57.0
60	74	76	70.0	68.5	68.5	69.0	65.5	61.5	55.5

NOTE: Tested in accordance with ARI Standard 270-2008 (not listed in AHRI).

<b>ACCESSORY USAGE GUIDELINES</b>			
Accessory	REQUIRED FOR APPLICATIONS IN SNOW-BELT REGION	REQUIRED FOR LOW-AMBIENT APPLICATIONS {Below 55°F (13°C)}	REQUIRED FOR LONG-LINE APPLICATIONS* {Over 80 Ft. (24.4m)}
Crankcase Heater	Standard (if required)	<b>Yes</b>	<b>Yes</b>
Evaporator Freeze Thermostat	No	<b>Yes</b>	No
Accumulator	Standard (factory installed)	Standard (factory installed)	Standard (factory installed)
Hard Start Kit (Capacitor & Relay)	No	<b>Yes</b>	<b>Yes</b>
Low Ambient Kit (Pressure Switch)	No	<b>Yes</b>	No
Support Feet, 4" (102mm) tall	<b>Yes</b>	Recommended	No
Liquid Line Solenoid Valve	No	No	See Long-Line Application Guideline

\* For Line Set lengths between 80 and 200 ft (24.4 and 61m) horizontal. or more than 20 ft (6.1m) indoor-outdoor vertical separation, refer to the Long Line Application Guideline document.

<b>ACCESSORIES</b>			
Part Number	Description	Used On Model Size	
		Single-Phase	3-Phase
NASA001SC	Start Component – PTC Device	24, 36	–
NASA001FS	Evaporator Freeze Thermostat	ALL	ALL
NASA001LS	Liquid Line Solenoid Valve	ALL	ALL
NASA001TD	Time Delay Relay, Indoor Blower	ALL	ALL
NASA001AC	Anti-Cycle Timer (5 minute delay)	ALL	ALL
NASA401LA	Low Ambient Kit (Pressure Switch)	ALL	ALL
NASA001WS	Winter Start Kit	ALL	ALL
AMF002OTA	Outdoor Thermometer Kit	ALL	ALL
NASA001SF	Support Feet, 4" (102mm) tall	ALL	ALL
NASA003CH	Crankcase Heater for Compressor	24, 36	–
NASA004CH	Crankcase Heater for Compressor	–	36
NASA00601CH	Crankcase Heater for Compressor	–	48, 60
NASA003SC	Hard Start Kit (Capacitor & Relay)	24, 36	–
NASA001SJ	Sound Jacket, Compressor	24, 36	36 (48 factory installed)
NASA003SJ	Sound Jacket, Compressor	–	(60 factory installed)
EBAC05TXVX	TXV Kit, R-410A *	24	–
EBAC06TXVX	TXV Kit, R-410A *	36	36
EBAC07TXVX	TXV Kit, R-410A *	–	48, 60

\* ONLY converts Fan Coils equipped with factory installed R-22 TXV.

**COOLING & HEATING PERFORMANCE FOR COMBINATION RATINGS**

Outdoor Model	Indoor Model	Nominal Airflow		Cool 95°F (35° C)						Heat 47°F (8.3° C)			
		CFM	L/s	Capacity BTU/hr	Capacity kW	Power kW	EER	COP (w/w)	kW/ton	Capacity BTU/hr	Capacity kW	Power kW	COP (w/w)
R4HE24PWA1	EBW3000A	800	378	23300	6.83	2.12	11.0	3.22	1.09	22660	6.64	1.83	3.63
R4HE36PWA R4HE36PZA1	EBW4200A	1200	566	34070	9.98	3.14	10.9	3.18	1.11	35450	10.39	2.98	3.49
R4HE48PZA1	EBW4800A EBW4800E	1550	732	46620	13.66	4.36	10.7	3.14	1.12	49430	14.48	3.82	3.79
R4HE60PZA1	EBW6000A EBW6000E	1850	873	57100	16.73	5.89	9.7	2.84	1.24	58270	17.07	5.04	3.39

## DETAILED COOLING AND HEATING

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(Refer to pages 8 – 15)

- † 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.
  - \* System amps are total of indoor and outdoor amps
  - ‡ S/T are based on 80 F db entering air at the indoor coil. For sensible capacities at other than 80 F db, deduct 835 Btuh per 1000 cfm of indoor coil air from MBhXS/T for each degree below 80 F, or add 835 Btuh per 1000 cfm of indoor coil air from MBhXS/T for each degree above 80 F
- T/R - Temp Rise is based on 25' line set. If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in Temp Rise may occur.

COOLING (English)		24 Size Outdoor With EBW3000A Indoor Cooling																			
		Outdoor Ambient Temperature – Degrees F, Dry Bulb																			
		75				85				95				105				115			
		Entering Indoor Temperature – Degrees F, Wet Bulb																			
CFM		57	62	67	72	57	62	67	72	57	62	67	72	57	62	67	72	57	62	67	72
700	MBh†	22.44	23.30	25.58	28.02	21.54	22.16	24.31	26.62	20.58	20.95	22.96	25.13	19.57	19.72	21.58	23.62	18.50	18.52	20.12	22.02
	S/T‡	1.00	0.90	0.69	0.51	1.00	0.92	0.70	0.51	1.00	0.94	0.72	0.52	1.00	0.97	0.74	0.53	1.00	1.00	0.77	0.55
	AMPS*	7.23	7.20	7.13	7.05	8.15	8.13	8.06	7.97	9.16	9.15	9.08	8.99	10.28	10.28	10.20	10.12	11.52	11.51	11.45	11.36
	HI PR	277	278	281	284	320	321	324	327	367	367	371	374	419	419	422	426	476	476	479	482
	LO PR	125	130	142	156	128	132	144	158	132	134	147	161	136	137	149	163	140	140	152	166
800	MBh†	23.36	23.80	26.03	28.47	22.39	22.61	24.70	27.02	21.36	21.40	23.30	25.46	20.28	20.30	21.86	23.89	19.13	19.15	20.35	22.25
	S/T‡	1.00	0.94	0.72	0.52	1.00	0.96	0.74	0.53	1.00	1.00	0.76	0.54	1.00	1.00	0.78	0.55	1.00	1.00	0.81	0.57
	AMPS*	7.35	7.34	7.26	7.19	8.27	8.26	8.19	8.11	9.28	9.28	9.21	9.12	10.40	10.40	10.34	10.25	11.64	11.63	11.58	11.49
	HI PR	278	279	282	285	321	322	325	328	368	368	371	375	420	420	423	427	477	477	479	483
	LO PR	131	133	146	159	134	135	148	162	138	138	150	164	142	142	152	166	146	146	155	169
900	MBh†	24.11	24.24	26.35	28.81	23.08	23.11	24.98	27.29	21.99	22.01	23.53	25.69	20.84	20.87	22.05	24.07	19.63	19.65	20.50	22.38
	S/T‡	1.00	0.98	0.75	0.54	1.00	1.00	0.77	0.55	1.00	1.00	0.79	0.56	1.00	1.00	0.82	0.57	1.00	1.00	0.85	0.59
	AMPS*	7.48	7.47	7.40	7.32	8.39	8.39	8.33	8.24	9.41	9.41	9.35	9.26	10.53	10.53	10.48	10.39	11.76	11.76	11.72	11.63
	HI PR	279	280	282	285	323	323	325	329	370	370	372	376	421	421	424	427	478	478	480	484
	LO PR	136	136	148	162	139	139	150	164	143	143	152	167	146	147	155	169	150	151	157	171

COOLING (SI)		24 Size Outdoor With EBW3000A Indoor Cooling																			
		Outdoor Ambient Temperature – Degrees C, Dry Bulb																			
		24				29				35				41				46			
		Entering Indoor Temperature – Degrees C, Wet Bulb																			
L/S		14	17	19	22	14	17	19	22	14	17	19	22	14	17	19	22	14	17	19	22
330	kW†	6.58	6.83	7.49	8.21	6.31	6.49	7.12	7.80	6.03	6.14	6.73	7.36	5.73	5.78	6.32	6.92	5.42	5.43	5.89	6.45
	S/T‡	1.00	0.90	0.69	0.51	1.00	0.92	0.70	0.51	1.00	0.94	0.72	0.52	1.00	0.97	0.74	0.53	1.00	1.00	0.77	0.55
	AMPS*	7.23	7.20	7.13	7.05	8.15	8.13	8.06	7.97	9.16	9.15	9.08	8.99	10.28	10.28	10.20	10.12	11.52	11.51	11.45	11.36
	HI PR	1909	1916	1936	1957	2205	2211	2233	2256	2529	2534	2556	2579	2887	2889	2911	2936	3279	3279	3300	3325
	LO PR	862	894	980	1075	886	910	995	1091	911	926	1012	1109	938	944	1028	1126	967	968	1046	1145
380	kW†	6.84	6.97	7.63	8.34	6.56	6.63	7.24	7.92	6.26	6.27	6.83	7.46	5.94	5.95	6.40	7.00	5.60	5.61	5.96	6.52
	S/T‡	1.00	0.94	0.72	0.52	1.00	0.96	0.74	0.53	1.00	1.00	0.76	0.54	1.00	1.00	0.78	0.55	1.00	1.00	0.81	0.57
	AMPS*	7.35	7.34	7.26	7.19	8.27	8.26	8.19	8.11	9.28	9.28	9.21	9.12	10.40	10.40	10.34	10.25	11.64	11.63	11.58	11.49
	HI PR	1919	1922	1942	1963	2215	2218	2238	2261	2540	2541	2561	2585	2897	2897	2916	2941	3289	3290	3306	3330
	LO PR	902	919	1004	1100	925	934	1018	1115	950	952	1033	1131	976	978	1049	1148	1005	1006	1066	1165
425	kW†	7.06	7.10	7.72	8.44	6.76	6.77	7.32	8.00	6.44	6.45	6.89	7.53	6.11	6.11	6.46	7.05	5.75	5.76	6.01	6.56
	S/T‡	1.00	0.98	0.75	0.54	1.00	1.00	0.77	0.55	1.00	1.00	0.79	0.56	1.00	1.00	0.82	0.57	1.00	1.00	0.85	0.59
	AMPS*	7.48	7.47	7.40	7.32	8.39	8.39	8.33	8.24	9.41	9.41	9.35	9.26	10.53	10.53	10.48	10.39	11.76	11.76	11.72	11.63
	HI PR	1927	1927	1946	1967	2224	2224	2243	2265	2549	2549	2565	2589	2906	2906	2920	2945	3298	3298	3310	3334
	LO PR	936	941	1022	1119	959	960	1036	1134	983	985	1050	1149	1009	1010	1066	1164	1037	1039	1082	1181

HEATING (English)		24 Size Outdoor With EBW3000A Indoor Heating																							
		Outdoor Ambient Temperature – Degrees F, Dry Bulb																							
		-3			7			17			27			37			47			57			67		
		Entering Indoor Temperature – Degrees F, Dry Bulb																							
CFM		65	70	75	65	70	75	65	70	75	65	70	75	65	70	75	65	70	75	65	70	75			
700	MBh†	8.75	8.41	8.05	11.06	10.74	10.41	13.92	13.64	13.12	16.60	16.33	16.07	19.60	19.30	19.01	22.80	22.61	22.30	25.39	25.29	25.17	27.72	27.73	27.67
	T/R	13.20	12.70	12.10	16.70	16.20	15.60	21.00	20.60	19.70	25.10	24.60	24.10	29.60	29.10	28.60	34.40	34.10	33.50	38.30	38.10	37.80	41.90	41.80	41.60
	AMPS*	6.27	6.55	6.82	6.49	6.79	7.09	6.78	7.10	7.39	7.05	7.39	7.75	7.39	7.74	8.11	7.69	8.12	8.56	7.95	8.37	8.80	8.25	8.69	9.14
	HI PR	230	246	262	243	260	277	261	278	294	280	298	316	303	321	340	325	347	369	345	366	388	366	389	412
	LO PR	38	38	38	49	49	49	61	61	61	74	75	75	90	90	91	106	107	108	118	120	122	130	132	134
800	MBh†	8.94	8.59	8.24	11.29	10.94	10.61	14.13	13.86	13.57	16.83	16.57	16.30	19.87	19.57	19.27	22.78	22.66	22.53	25.09	25.07	25.02	27.06	27.17	27.21
	T/R	11.80	11.30	10.80	14.90	14.40	14.00	18.70	18.30	17.80	22.20	21.80	21.40	26.20	25.80	25.30	30.10	29.90	29.60	33.10	33.10	32.90	35.70	35.80	35.80
	AMPS*	6.34	6.62	6.90	6.54	6.83	7.14	6.78	7.11	7.44	7.03	7.37	7.73	7.34	7.69	8.06	7.55	7.95	8.38	7.80	8.20	8.63	8.02	8.46	8.90
	HI PR	226	242	258	238	255	272	254	271	289	272	289	308	293	311	330	310	331	353	329	350	372	345	368	391
	LO PR	38	38	38	48	49	49	60	61	61	74	75	75	89	90	90	104	105	107	115	117	119	124	127	130
900	MBh†	9.11	8.76	8.42	11.50	11.13	10.80	14.31	14.06	13.77	17.04	16.77	16.50	20.09	19.80	19.49	22.65	22.60	22.53	24.72	24.79	24.80	25.75	26.25	26.71
	T/R	10.70	10.30	9.80	13.50	13.00	12.60	16.80	16.50	16.10	20.00	19.60	19.30	23.60	23.20	22.80	26.60	26.50	26.30	29.00	29.00	29.00	30.20	30.80	31.20
	AMPS*	6.43	6.70	6.99	6.60	6.90	7.20	6.82	7.15	7.48	7.04	7.39	7.74	7.34	7.69	8.05	7.50	7.89	8.30	7.71	8.11	8.54	7.80	8.27	8.75
	HI PR	223	239	255	234	250	268	249	266	283	265	283	301	286	303	322	300	320	341	316	337	359	323	348	375
	LO PR	38	38	38	48	49	49	60	61	61	74	74	75	89	90	90	102	104	105	112	114	116	116	121	126

HEATING (SI)		24 Size Outdoor With EBW3000A Indoor Heating																							
		Outdoor Ambient Temperature – Degrees C, Dry Bulb																							
		-19			-14			-8			-3			3			8			14			19		
L/S		18	21	24	18	21	24	18	21	24	18	21	24	18	21	24	18	21	24	18	21	24	18	21	24
330	kW†	2.56	2.46	2.36	3.24	3.15	3.05	4.08	4.00	3.84	4.86	4.79	4.71	5.74	5.66	5.57	6.68	6.62	6.54	7.44	7.41	7.37	8.12	8.13	8.11
	T/R	7.00	7.00	7.00	9.00	9.00	9.00	12.00	11.00	11.00	14.00	14.00	13.00	16.00	16.00	16.00	19.00	19.00	19.00	21.00	21.00	21.00	23.00	23.00	23.00
	AMPS*	6.27	6.55	6.82	6.49	6.79	7.09	6.78	7.10	7.39	7.05	7.39	7.75	7.39	7.74	8.11	7.69	8.12	8.56	7.95	8.37	8.80	8.25	8.69	9.14
	HI PR	1587	1696	1809	1677	1791	1909	1799	1916	2028	1929	2052	2180	2087	2213	2344	2242	2391	2541	2380	2525	2676	2522	2679	2839
	LO PR	260	262	264	335	337	339	418	420	423	513	515	518	618	621	624	729	738	742	816	829	841	893	911	926
380	kW†	2.62	2.52	2.42	3.31	3.21	3.11	4.14	4.06	3.98	4.93	4.85	4.78	5.82	5.73	5.65	6.67	6.64	6.60	7.35	7.35	7.33	7.93	7.96	7.97
	T/R	7.00	6.00	6.00	8.00	8.00	8.00	10.00	10.00	10.00	12.00	12.00	12.00	15.00	14.00	14.00	17.00	17.00	16.00	18.00	18.00	18.00	20.00	20.00	20.00
	AMPS*	6.34	6.62	6.90	6.54	6.83	7.14	6.78	7.11	7.44	7.03	7.37	7.73	7.34	7.69	8.06	7.55	7.95	8.38	7.80	8.20	8.63	8.02	8.46	8.90
	HI PR	1559	1669	1782	1641	1755	1873	1751	1869	1990	1872	1993	2121	2020	2144	2274	2141	2281	2431	2267	2412	2562	2377	2536	2695
	LO PR	260	262	264	334	336	338	417	419	421	512	514	517	617	620	623	716	727	738	793	808	822	857	876	895
425	kW†	2.67	2.57	2.47	3.37	3.26	3.17	4.19	4.12	4.03	4.99	4.91	4.83	5.89	5.80	5.71	6.64	6.62	6.60	7.24	7.26	7.26	7.55	7.69	7.83
	T/R	6.00	6.00	5.00	8.00	7.00	7.00	9.00	9.00	9.00	11.00	11.00	11.00	13.00	13.00	13.00	15.00	15.00	15.00	16.00	16.00	16.00	17.00	17.00	17.00
	AMPS*	6.43	6.70	6.99	6.60	6.90	7.20	6.82	7.15	7.48	7.04	7.39	7.74	7.34	7.69	8.05	7.50	7.89	8.30	7.71	8.11	8.54	7.80	8.27	8.75
	HI PR	1537	1647	1762	1613	1726	1845	1714	1832	1953	1828	1949	2075	1969	2092	2220	2068	2205	2350	2178	2324	2474	2225	2402	2584
	LO PR	260	261	263	333	335	338	416	418	421	511	513	516	615	618	621	702	715	727	770	787	803	801	834	866

COOLING (English)		36 Size Outdoor With EBW4200A Indoor Cooling																			
		Outdoor Ambient Temperature – Degrees F, Dry Bulb																			
		75				85				95				105				115			
		Entering Indoor Temperature – Degrees F, Wet Bulb																			
CFM		57	62	67	72	57	62	67	72	57	62	67	72	57	62	67	72	57	62	67	72
1150	MBh†	33.23	34.66	37.85	41.27	31.86	32.93	35.93	39.15	30.42	31.11	33.92	36.93	28.91	29.27	31.85	34.66	27.31	27.36	29.69	32.28
	S/T‡	1.00	0.93	0.72	0.53	1.00	0.95	0.73	0.54	1.00	0.98	0.75	0.55	1.00	1.01	0.77	0.56	1.00	1.00	0.80	0.57
	AMPS*	10.72	10.76	10.83	10.91	12.00	12.03	12.11	12.20	13.41	13.43	13.52	13.61	14.96	14.97	15.06	15.15	16.62	16.63	16.72	16.80
	HI PR	304	306	312	318	349	351	357	364	399	400	406	413	453	454	460	467	512	512	518	525
	LO PR	121	126	139	153	124	129	141	155	128	131	144	158	132	134	146	160	137	137	149	163
1200	MBh†	33.66	34.89	38.06	41.49	32.25	33.13	36.12	39.34	30.77	31.30	34.07	37.09	29.23	29.44	31.98	34.79	27.60	27.63	29.79	32.38
	S/T‡	1.00	0.94	0.73	0.54	1.00	0.97	0.74	0.54	1.00	0.99	0.76	0.55	1.00	1.02	0.78	0.56	1.00	1.00	0.81	0.58
	AMPS*	10.80	10.83	10.90	10.99	12.08	12.11	12.19	12.27	13.49	13.51	13.59	13.68	15.04	15.04	15.13	15.22	16.70	16.71	16.79	16.87
	HI PR	305	307	312	319	350	352	358	364	400	401	407	414	454	455	461	468	513	513	519	526
	LO PR	123	128	140	154	126	130	142	156	130	132	145	159	134	135	147	161	138	139	150	164
1350	MBh†	34.77	35.46	38.60	42.03	33.27	33.67	36.57	39.79	31.69	31.82	34.44	37.47	30.06	30.10	32.29	35.08	28.33	28.36	30.02	32.61
	S/T‡	1.00	0.99	0.76	0.55	1.00	1.01	0.77	0.56	1.00	0.99	0.80	0.57	1.00	1.00	0.82	0.58	1.00	1.00	0.85	0.60
	AMPS*	11.03	11.05	11.12	11.21	12.31	12.33	12.40	12.49	13.72	13.73	13.81	13.89	15.27	15.27	15.35	15.44	16.94	16.94	17.00	17.09
	HI PR	307	308	314	320	352	353	359	365	402	402	408	415	457	457	462	469	515	516	520	527
	LO PR	128	131	143	157	131	133	145	159	135	136	147	162	139	139	150	164	143	143	152	167

COOLING (SI)		36 Size Outdoor With EBW4200A Indoor Cooling																			
		Outdoor Ambient Temperature – Degrees C, Dry Bulb																			
		24				29				35				41				46			
		Entering Indoor Temperature – Degrees C, Wet Bulb																			
L/S		14	17	19	22	14	17	19	22	14	17	19	22	14	17	19	22	14	17	19	22
545	kW†	9.74	10.16	11.09	12.09	9.34	9.65	10.53	11.47	8.91	9.12	9.94	10.82	8.47	8.58	9.33	10.16	8.00	8.02	8.70	9.46
	S/T‡	1.00	0.93	0.72	0.53	1.00	0.95	0.73	0.54	1.00	0.98	0.75	0.55	1.00	1.01	0.77	0.56	1.00	1.00	0.80	0.57
	AMPS*	10.72	10.76	10.83	10.91	12.00	12.03	12.11	12.20	13.41	13.43	13.52	13.61	14.96	14.97	15.06	15.15	16.62	16.63	16.72	16.80
	HI PR	2095	2113	2151	2193	2407	2422	2463	2507	2749	2760	2802	2848	3124	3131	3174	3222	3531	3532	3574	3620
	LO PR	834	872	958	1052	858	888	974	1069	884	905	991	1087	911	923	1008	1106	941	943	1027	1125
565	kW†	9.86	10.22	11.15	12.16	9.45	9.71	10.58	11.53	9.01	9.17	9.98	10.87	8.56	8.63	9.37	10.19	8.09	8.10	8.73	9.49
	S/T‡	1.00	0.94	0.73	0.54	1.00	0.97	0.74	0.54	1.00	0.99	0.76	0.55	1.00	1.02	0.78	0.56	1.00	1.00	0.81	0.58
	AMPS*	10.80	10.83	10.90	10.99	12.08	12.11	12.19	12.27	13.49	13.51	13.59	13.68	15.04	15.04	15.13	15.22	16.70	16.71	16.79	16.87
	HI PR	2102	2116	2154	2196	2413	2426	2467	2511	2756	2764	2806	2852	3131	3135	3177	3225	3537	3538	3577	3623
	LO PR	847	880	965	1060	871	896	982	1077	897	913	998	1095	924	931	1015	1113	954	955	1033	1132
635	kW†	10.19	10.39	11.31	12.31	9.75	9.87	10.71	11.66	9.28	9.32	10.09	10.98	8.81	8.82	9.46	10.28	8.30	8.31	8.80	9.55
	S/T‡	1.00	0.99	0.76	0.55	1.00	1.01	0.77	0.56	1.00	0.99	0.80	0.57	1.00	1.00	0.82	0.58	1.00	1.00	0.85	0.60
	AMPS*	11.03	11.05	11.12	11.21	12.31	12.33	12.40	12.49	13.72	13.73	13.81	13.89	15.27	15.27	15.35	15.44	16.94	16.94	17.00	17.09
	HI PR	2118	2125	2163	2205	2430	2437	2476	2520	2772	2775	2815	2861	3149	3149	3186	3234	3554	3555	3585	3631
	LO PR	882	901	986	1082	906	917	1001	1098	932	935	1017	1114	958	960	1033	1131	988	989	1050	1149

HEATING (English)		36 Size Outdoor With EBW4200A Indoor Heating																							
		Outdoor Ambient Temperature – Degrees F, Dry Bulb																							
		-3			7			17			27			37			47			57			67		
		Entering Indoor Temperature – Degrees F, Dry Bulb																							
CFM		65	70	75	65	70	75	65	70	75	65	70	75	65	70	75	65	70	75	65	70	75			
1050	MBh†	15.94	15.38	14.97	19.59	19.31	19.03	23.25	23.03	22.77	27.40	27.04	26.71	32.12	31.78	31.38	35.92	35.85	35.76	39.52	39.56	39.24	42.63	42.76	42.79
	T/R	16.80	16.20	15.80	20.70	20.40	20.00	24.60	24.30	24.00	29.00	28.50	28.10	33.90	33.50	33.00	38.00	37.80	37.60	41.80	41.70	41.30	45.10	45.10	45.00
	AMPS*	9.77	10.18	10.63	10.27	10.77	11.29	10.80	11.34	11.88	11.42	11.97	12.54	12.08	12.72	13.36	12.58	13.23	13.89	13.12	13.81	14.55	13.57	14.29	15.01
	HI PR	242	258	275	257	275	293	275	293	312	296	315	334	319	340	361	338	359	381	359	381	403	376	399	423
	LO PR	37	37	37	47	47	47	58	58	59	71	71	71	85	85	86	96	97	99	106	108	110	115	117	120
1200	MBh†	16.40	15.79	15.21	19.84	19.61	19.30	23.54	23.29	23.04	27.75	27.39	27.05	32.15	31.96	31.70	35.45	35.45	35.02	38.68	38.72	38.73	41.09	41.32	41.58
	T/R	15.20	14.60	14.00	18.40	18.10	17.80	21.80	21.50	21.20	25.70	25.30	24.90	29.70	29.50	29.20	32.80	32.70	32.20	35.80	35.70	35.60	38.00	38.10	38.30
	AMPS*	9.87	10.28	10.71	10.30	10.80	11.31	10.79	11.31	11.85	11.37	11.90	12.47	11.87	12.48	13.12	12.30	12.94	13.61	12.73	13.40	14.11	13.03	13.76	14.49
	HI PR	237	253	270	251	268	286	267	285	304	287	305	324	305	325	346	321	342	364	338	360	383	350	373	398
	LO PR	36	37	37	47	47	47	58	58	59	70	71	71	83	85	86	93	95	95	102	104	106	108	112	114
1350	MBh†	16.65	16.19	15.47	20.10	19.85	19.54	23.80	23.53	23.31	28.05	27.70	27.35	32.04	31.95	31.87	35.02	35.09	34.95	37.37	37.73	37.94	38.82	40.10	40.36
	T/R	13.70	13.30	12.70	16.50	16.30	16.00	19.60	19.30	19.10	23.10	22.70	22.40	26.30	26.20	26.10	28.80	28.80	28.60	30.70	30.90	31.00	31.90	32.90	33.00
	AMPS*	9.97	10.41	10.82	10.37	10.86	11.38	10.82	11.34	11.89	11.38	11.91	12.47	11.77	12.37	12.99	12.14	12.77	13.47	12.49	13.14	13.84	12.60	13.40	14.15
	HI PR	233	250	266	246	263	281	261	278	297	279	297	316	294	314	334	309	330	351	321	343	366	326	354	378
	LO PR	36	37	37	46	47	47	58	58	59	70	71	71	82	83	85	90	92	94	96	100	102	100	106	109

HEATING (SI)		36 Size Outdoor With EBW4200A Indoor Heating																							
		Outdoor Ambient Temperature – Degrees C, Dry Bulb																							
		-19			-14			-8			-3			3			8			14			19		
L/S		18	21	24	18	21	24	18	21	24	18	21	24	18	21	24	18	21	24	18	21	24	18	21	24
495	kW†	4.67	4.51	4.39	5.74	5.66	5.58	6.81	6.75	6.67	8.03	7.92	7.83	9.41	9.31	9.20	10.52	10.50	10.48	11.58	11.59	11.50	12.49	12.53	12.54
	T/R	9.00	9.00	9.00	12.00	11.00	11.00	14.00	13.00	13.00	16.00	16.00	16.00	19.00	19.00	18.00	21.00	21.00	21.00	23.00	23.00	23.00	25.00	25.00	25.00
	AMPS*	9.77	10.18	10.63	10.27	10.77	11.29	10.80	11.34	11.88	11.42	11.97	12.54	12.08	12.72	13.36	12.58	13.23	13.89	13.12	13.81	14.55	13.57	14.29	15.01
	HI PR	1666	1776	1894	1773	1893	2017	1896	2022	2152	2043	2169	2302	2199	2342	2487	2332	2478	2629	2472	2626	2781	2590	2754	2920
	LO PR	252	255	257	322	324	326	399	403	406	487	490	493	584	589	593	660	672	683	731	747	756	792	810	828
565	kW†	4.81	4.63	4.46	5.81	5.75	5.65	6.90	6.82	6.75	8.13	8.03	7.93	9.42	9.37	9.29	10.39	10.39	10.26	11.33	11.34	11.35	12.04	12.11	12.18
	T/R	8.00	8.00	8.00	10.00	10.00	10.00	12.00	12.00	12.00	14.00	14.00	14.00	17.00	16.00	16.00	18.00	18.00	18.00	20.00	20.00	20.00	21.00	21.00	21.00
	AMPS*	9.87	10.28	10.71	10.30	10.80	11.31	10.79	11.31	11.85	11.37	11.90	12.47	11.87	12.48	13.12	12.30	12.94	13.61	12.73	13.40	14.11	13.03	13.76	14.49
	HI PR	1634	1745	1859	1728	1848	1971	1840	1964	2094	1977	2102	2233	2101	2239	2384	2216	2361	2509	2328	2482	2641	2411	2575	2742
	LO PR	251	254	256	321	323	325	398	401	404	485	488	491	575	583	590	640	653	654	703	716	729	747	769	789
635	kW†	4.88	4.74	4.53	5.89	5.82	5.73	6.97	6.89	6.83	8.22	8.12	8.01	9.39	9.36	9.34	10.26	10.28	10.24	10.95	11.05	11.12	11.37	11.75	11.83
	T/R	8.00	7.00	7.00	9.00	9.00	9.00	11.00	11.00	11.00	13.00	13.00	12.00	15.00	15.00	14.00	16.00	16.00	16.00	17.00	17.00	17.00	18.00	18.00	18.00
	AMPS*	9.97	10.41	10.82	10.37	10.86	11.38	10.82	11.34	11.89	11.38	11.91	12.47	11.77	12.37	12.99	12.14	12.77	13.47	12.49	13.14	13.84	12.60	13.40	14.15
	HI PR	1606	1720	1832	1693	1812	1935	1798	1920	2050	1926	2051	2181	2029	2165	2305	2128	2272	2420	2212	2365	2526	2249	2439	2609
	LO PR	251	253	256	320	322	325	397	400	403	484	487	490	564	574	585	622	635	646	665	688	704	691	733	752

COOLING (English)		48 Size Outdoor With EBW4800A Indoor Cooling																			
		Outdoor Ambient Temperature – Degrees F, Dry Bulb																			
		75				85				95				105				115			
		Entering Indoor Temperature – Degrees F, Wet Bulb																			
CFM		57	62	67	72	57	62	67	72	57	62	67	72	57	62	67	72	57	62	67	72
1350	MBh†	44.38	46.60	50.88	55.40	42.69	44.41	48.44	52.70	40.87	42.08	45.86	49.82	38.93	39.67	43.15	46.84	36.85	37.15	40.31	43.73
	S/T‡	1.00	0.89	0.69	0.51	1.00	0.91	0.70	0.52	1.00	0.93	0.72	0.53	1.00	0.96	0.73	0.54	1.00	0.99	0.76	0.55
	AMPS*	14.11	14.11	14.11	14.11	16.32	16.32	16.32	16.33	18.74	18.74	18.75	18.75	21.39	21.39	21.41	21.41	24.27	24.27	24.28	24.27
	HI PR	305	308	313	319	351	354	359	365	401	403	409	416	456	458	464	470	516	517	522	529
	LO PR	120	126	138	152	123	128	141	155	127	131	143	157	131	133	146	160	135	136	148	163
1550	MBh†	46.34	47.68	51.91	56.45	44.50	45.39	49.36	53.59	42.53	42.99	46.62	50.58	40.43	40.51	43.81	47.47	38.19	38.24	40.84	44.24
	S/T‡	1.00	0.93	0.72	0.53	1.00	0.95	0.73	0.54	1.00	0.98	0.75	0.55	1.00	1.00	0.77	0.56	1.00	1.00	0.80	0.57
	AMPS*	14.32	14.31	14.30	14.30	16.52	16.52	16.52	16.52	18.94	18.94	18.94	18.94	21.60	21.60	21.61	21.60	24.47	24.47	24.47	24.46
	HI PR	308	310	315	321	354	355	361	367	404	405	411	417	459	460	465	472	519	519	524	530
	LO PR	126	130	142	156	129	132	144	159	133	134	147	161	137	137	149	163	141	141	152	166
1750	MBh†	47.95	48.56	52.67	57.19	45.97	46.23	50.01	54.25	43.87	43.93	47.18	51.12	41.63	41.68	44.26	47.91	39.25	39.29	41.23	44.60
	S/T‡	1.00	0.97	0.75	0.54	1.00	0.99	0.77	0.55	1.00	1.00	0.79	0.57	1.00	1.00	0.81	0.58	1.00	1.00	0.84	0.60
	AMPS*	14.51	14.50	14.50	14.50	16.71	16.71	16.71	16.71	19.14	19.14	19.14	19.14	21.80	21.80	21.80	21.79	24.67	24.67	24.67	24.65
	HI PR	310	311	316	322	357	357	362	368	407	407	412	418	462	462	467	473	521	521	525	531
	LO PR	131	133	145	159	134	135	147	161	138	138	149	164	142	142	152	166	146	146	154	169

COOLING (SI)		48 Size Outdoor With EBW4800A Indoor Cooling																			
		Outdoor Ambient Temperature – Degrees C, Dry Bulb																			
		24				29				35				41				46			
		Entering Indoor Temperature – Degrees C, Wet Bulb																			
L/S		14	17	19	22	14	17	19	22	14	17	19	22	14	17	19	22	14	17	19	22
635	kW†	13.00	13.65	14.91	16.23	12.51	13.01	14.19	15.44	11.97	12.33	13.44	14.60	11.41	11.62	12.64	13.72	10.80	10.88	11.81	12.81
	S/T‡	1.00	0.89	0.69	0.51	1.00	0.91	0.70	0.52	1.00	0.93	0.72	0.53	1.00	0.96	0.73	0.54	1.00	0.99	0.76	0.55
	AMPS*	14.11	14.11	14.11	14.11	16.32	16.32	16.32	16.33	18.74	18.74	18.75	18.75	21.39	21.39	21.41	21.41	24.27	24.27	24.28	24.27
	HI PR	2105	2125	2161	2199	2423	2439	2478	2520	2768	2781	2822	2866	3146	3155	3198	3243	3558	3562	3603	3647
	LO PR	826	869	955	1050	848	884	971	1067	873	901	988	1085	900	918	1005	1103	930	938	1024	1123
730	kW†	13.58	13.97	15.21	16.54	13.04	13.30	14.46	15.70	12.46	12.60	13.66	14.82	11.85	11.87	12.83	13.91	11.19	11.20	11.97	12.96
	S/T‡	1.00	0.93	0.72	0.53	1.00	0.95	0.73	0.54	1.00	0.98	0.75	0.55	1.00	1.00	0.77	0.56	1.00	1.00	0.80	0.57
	AMPS*	14.32	14.31	14.30	14.30	16.52	16.52	16.52	16.52	18.94	18.94	18.94	18.94	21.60	21.60	21.61	21.60	24.47	24.47	24.47	24.46
	HI PR	2126	2136	2171	2210	2442	2451	2489	2531	2788	2793	2833	2877	3168	3169	3209	3254	3578	3579	3612	3656
	LO PR	868	895	981	1077	891	910	996	1093	915	926	1012	1110	942	944	1028	1127	972	973	1045	1145
825	kW†	14.05	14.23	15.43	16.76	13.47	13.54	14.65	15.89	12.85	12.87	13.82	14.98	12.20	12.21	12.97	14.04	11.50	11.51	12.08	13.07
	S/T‡	1.00	0.97	0.75	0.54	1.00	0.99	0.77	0.55	1.00	1.00	0.79	0.57	1.00	1.00	0.81	0.58	1.00	1.00	0.84	0.60
	AMPS*	14.51	14.50	14.50	14.50	16.71	16.71	16.71	16.71	19.14	19.14	19.14	19.14	21.80	21.80	21.80	21.79	24.67	24.67	24.67	24.65
	HI PR	2141	2145	2179	2218	2459	2461	2497	2539	2805	2806	2842	2886	3185	3186	3217	3262	3595	3595	3620	3664
	LO PR	904	917	1001	1099	927	932	1016	1113	951	953	1030	1129	978	979	1046	1146	1007	1008	1063	1162

HEATING (English)		48 Size Outdoor With EBW4800A Indoor Heating																							
		Outdoor Ambient Temperature – Degrees F, Dry Bulb																							
		-3			7			17			27			37			47			57			67		
		Entering Indoor Temperature – Degrees F, Dry Bulb																							
CFM		65	70	75	65	70	75	65	70	75	65	70	75	65	70	75	65	70	75	65	70	75			
1350	MBh†	19.56	18.98	18.35	24.51	23.99	23.43	30.51	29.69	28.95	36.11	35.73	35.38	42.49	42.03	41.57	49.71	49.21	48.64	55.86	55.81	55.64	61.11	61.19	61.15
	T/R	13.90	13.50	13.00	17.50	17.10	16.60	21.80	21.10	20.60	25.70	25.40	25.10	30.30	29.90	29.50	35.40	35.00	34.50	39.80	39.70	39.50	43.60	43.50	43.40
	AMPS*	12.26	12.97	13.69	12.85	13.63	14.43	13.66	14.38	15.20	14.39	15.30	16.24	15.27	16.21	17.19	16.20	17.29	18.37	16.91	18.00	19.12	17.69	18.83	20.01
	LO PR	232	248	264	246	262	279	265	280	297	284	303	322	308	326	346	332	353	375	352	374	397	373	396	420
1550	MBh†	19.86	19.29	18.66	24.83	24.32	23.77	30.81	30.16	29.39	36.45	36.07	35.70	42.94	42.44	41.97	49.64	49.43	49.07	54.80	54.90	54.91	59.35	59.57	59.73
	T/R	12.30	12.00	11.50	15.40	15.10	14.70	19.10	18.70	18.20	22.60	22.40	22.10	26.70	26.30	26.00	30.80	30.60	30.30	34.00	34.00	34.00	36.90	36.90	36.90
	AMPS*	12.26	12.98	13.71	12.78	13.56	14.37	13.51	14.26	15.05	14.16	15.05	15.98	14.96	15.88	16.85	15.58	16.61	17.71	16.22	17.29	18.40	16.80	17.95	19.11
	LO PR	228	244	260	240	257	274	258	273	290	275	294	312	297	316	335	315	336	358	333	355	377	349	373	396
1750	MBh†	20.13	19.55	18.91	25.11	24.60	24.04	31.07	30.72	29.77	36.75	36.36	35.98	43.32	42.82	42.31	49.12	49.14	49.03	53.64	53.92	54.05	57.70	57.99	58.28
	T/R	11.10	10.70	10.40	13.80	13.50	13.20	17.10	16.90	16.30	20.20	20.00	19.70	23.80	23.50	23.20	27.00	27.00	26.80	29.50	29.60	29.60	31.70	31.80	31.90
	AMPS*	12.31	13.03	13.77	12.77	13.55	14.37	13.43	14.27	14.99	14.03	14.91	15.84	14.79	15.70	16.65	15.22	16.23	17.29	15.75	16.82	17.92	16.17	17.31	18.49
	LO PR	224	240	257	236	252	269	252	269	284	269	287	305	289	308	327	304	324	345	319	340	363	331	354	378
	LO PR	35	35	36	45	45	46	55	56	56	68	68	69	82	82	83	94	96	97	104	106	108	112	114	117

HEATING (SI)		48 Size Outdoor With EBW4800A Indoor Heating																							
		Outdoor Ambient Temperature – Degrees C, Dry Bulb																							
		-19			-14			-8			-3			3			8			14			19		
		Entering Indoor Temperature – Degrees C, Dry Bulb																							
L/S		18	21	24	18	21	24	18	21	24	18	21	24	18	21	24	18	21	24	18	21	24	18	21	24
635	kW†	5.73	5.56	5.38	7.18	7.03	6.87	8.94	8.70	8.48	10.58	10.47	10.37	12.45	12.31	12.18	14.57	14.42	14.25	16.37	16.35	16.30	17.91	17.93	17.92
	T/R	8.00	8.00	7.00	10.00	9.00	9.00	12.00	12.00	11.00	14.00	14.00	14.00	17.00	17.00	16.00	20.00	19.00	19.00	22.00	22.00	22.00	24.00	24.00	24.00
	AMPS*	12.26	12.97	13.69	12.85	13.63	14.43	13.66	14.38	15.20	14.39	15.30	16.24	15.27	16.21	17.19	16.20	17.29	18.37	16.91	18.00	19.12	17.69	18.83	20.01
	LO PR	1599	1708	1821	1695	1809	1927	1828	1931	2049	1961	2087	2218	2122	2251	2385	2289	2437	2583	2430	2581	2735	2573	2732	2896
730	kW†	5.82	5.65	5.47	7.28	7.13	6.96	9.03	8.84	8.61	10.68	10.57	10.46	12.58	12.43	12.30	14.54	14.48	14.38	16.06	16.09	16.09	17.39	17.45	17.50
	T/R	7.00	7.00	6.00	9.00	8.00	8.00	11.00	10.00	10.00	13.00	12.00	12.00	15.00	15.00	14.00	17.00	17.00	17.00	19.00	19.00	19.00	20.00	21.00	21.00
	AMPS*	12.26	12.98	13.71	12.78	13.56	14.37	13.51	14.26	15.05	14.16	15.05	15.98	14.96	15.88	16.85	15.58	16.61	17.71	16.22	17.29	18.40	16.80	17.95	19.11
	LO PR	1569	1679	1793	1655	1770	1889	1777	1886	2000	1900	2024	2154	2050	2178	2310	2175	2318	2467	2298	2448	2603	2410	2569	2732
825	kW†	5.90	5.73	5.54	7.36	7.21	7.04	9.10	9.00	8.72	10.77	10.65	10.54	12.69	12.55	12.40	14.39	14.40	14.37	15.72	15.80	15.84	16.91	16.99	17.08
	T/R	6.00	6.00	6.00	8.00	8.00	7.00	9.00	9.00	9.00	11.00	11.00	11.00	13.00	13.00	13.00	15.00	15.00	15.00	16.00	16.00	16.00	18.00	18.00	18.00
	AMPS*	12.31	13.03	13.77	12.77	13.55	14.37	13.43	14.27	14.99	14.03	14.91	15.84	14.79	15.70	16.65	15.22	16.23	17.29	15.75	16.82	17.92	16.17	17.31	18.49
	LO PR	1546	1656	1770	1625	1739	1858	1739	1857	1961	1854	1977	2106	1993	2121	2255	2094	2234	2380	2197	2348	2501	2285	2444	2607
	LO PR	242	244	246	309	311	314	382	385	389	468	470	473	566	568	571	650	661	670	714	729	744	773	787	804

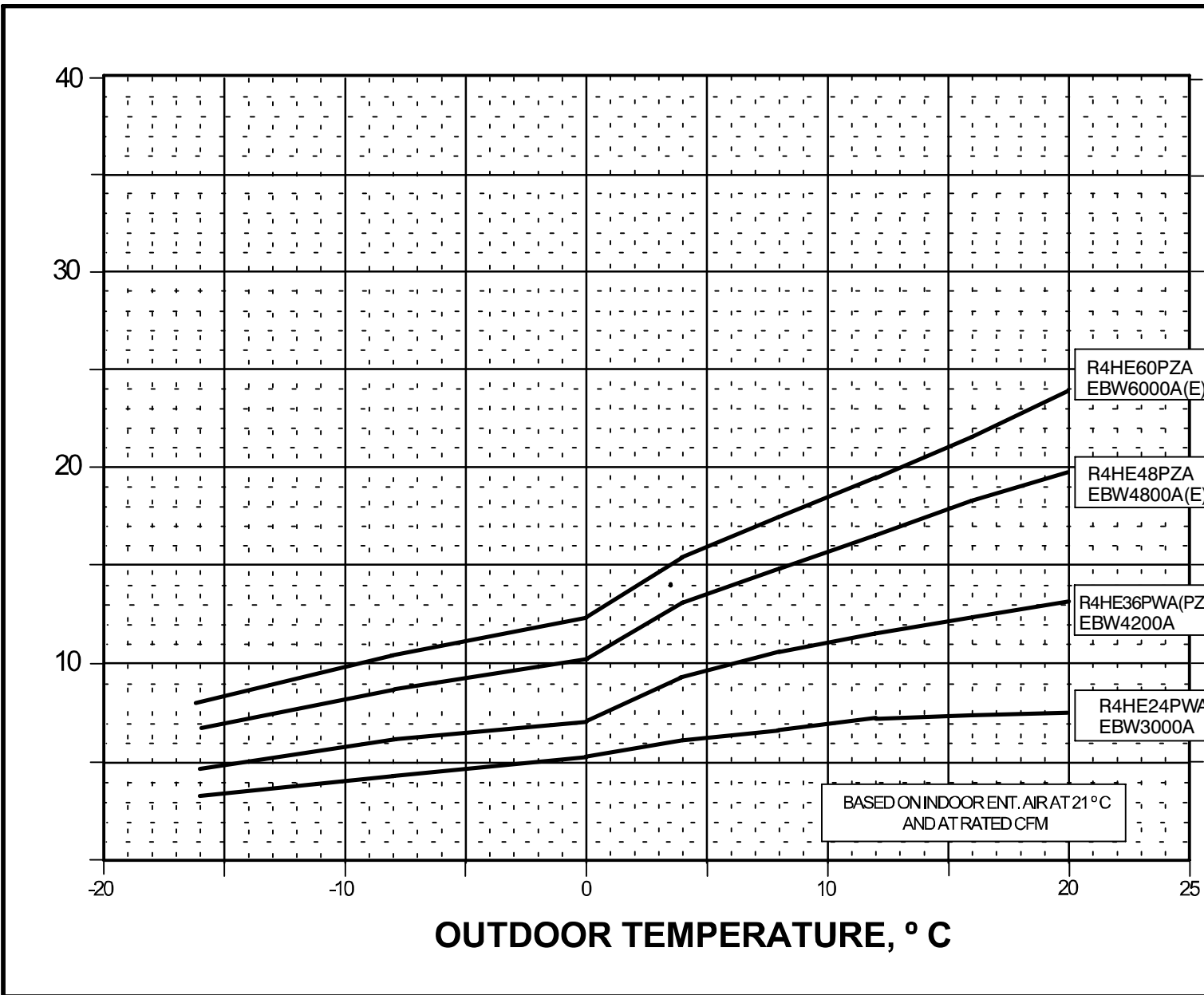
COOLING (English)		60 Size Outdoor With EBW6000A Indoor Cooling																			
		Outdoor Ambient Temperature – Degrees F, Dry Bulb																			
		75				85				95				105				115			
		Entering Indoor Temperature – Degrees F, Wet Bulb																			
CFM		57	62	67	72	57	62	67	72	57	62	67	72	57	62	67	72	57	62	67	72
1750	MBh†	55.44	58.76	63.85	69.01	53.13	55.75	60.40	65.13	50.61	52.48	56.74	61.01	47.91	49.11	52.95	56.80	45.00	45.56	48.97	52.38
	S/T‡	1.00	0.90	0.70	0.53	1.00	0.92	0.71	0.53	1.00	0.94	0.73	0.54	1.00	0.98	0.75	0.55	1.00	1.01	0.78	0.57
	AMPS*	19.96	20.22	20.63	21.04	22.31	22.54	22.94	23.34	24.85	25.04	25.44	25.83	27.61	27.74	28.14	28.51	30.55	30.62	31.01	31.36
	HI PR	305	309	316	323	350	354	361	368	398	402	409	416	451	454	461	467	508	509	516	522
	LO PR	113	121	133	147	117	123	136	150	121	126	139	153	125	129	142	156	130	132	145	159
1850	MBh†	56.42	59.30	64.37	69.52	54.03	56.23	60.85	65.53	51.41	52.90	57.10	61.34	48.62	49.46	53.24	57.05	45.61	45.88	49.18	52.59
	S/T‡	1.00	0.92	0.71	0.53	1.00	0.94	0.73	0.54	1.00	0.96	0.75	0.55	1.00	1.00	0.77	0.56	1.00	1.03	0.80	0.58
	AMPS*	20.15	20.38	20.78	21.20	22.50	22.70	23.10	23.49	25.05	25.20	25.59	25.97	27.81	27.90	28.29	28.65	30.75	30.78	31.15	31.50
	HI PR	306	310	317	324	351	355	362	369	400	403	410	416	453	454	461	468	509	510	516	522
	LO PR	115	122	135	149	119	125	137	151	123	127	140	154	128	130	143	158	133	134	146	161
1950	MBh†	57.34	59.79	64.84	69.97	54.85	56.65	61.24	65.88	52.14	53.27	57.41	61.64	49.26	49.79	53.49	57.27	46.15	46.21	49.36	52.78
	S/T‡	1.00	0.93	0.72	0.54	1.00	0.96	0.74	0.55	1.00	0.98	0.76	0.56	1.00	1.02	0.78	0.57	1.00	1.00	0.81	0.59
	AMPS*	20.34	20.53	20.94	21.35	22.69	22.85	23.25	23.64	25.24	25.35	25.74	26.12	28.00	28.05	28.43	28.79	30.93	30.94	31.29	31.64
	HI PR	308	311	318	325	353	356	363	369	401	403	410	417	454	455	462	468	511	511	517	523
	LO PR	118	124	136	150	121	126	139	153	126	129	142	156	130	132	144	159	135	135	147	162

COOLING (SI)		60 Size Outdoor With EBW6000A Indoor Cooling																			
		Outdoor Ambient Temperature – Degrees C, Dry Bulb																			
		24				29				35				41				46			
		Entering Indoor Temperature – Degrees C, Wet Bulb																			
L/S		14	17	19	22	14	17	19	22	14	17	19	22	14	17	19	22	14	17	19	22
825	kW†	16.24	17.22	18.71	20.22	15.57	16.33	17.70	19.08	14.83	15.38	16.63	17.88	14.04	14.39	15.51	16.64	13.18	13.35	14.35	15.35
	S/T‡	1.00	0.90	0.70	0.53	1.00	0.92	0.71	0.53	1.00	0.94	0.73	0.54	1.00	0.98	0.75	0.55	1.00	1.01	0.78	0.57
	AMPS*	19.96	20.22	20.63	21.04	22.31	22.54	22.94	23.34	24.85	25.04	25.44	25.83	27.61	27.74	28.14	28.51	30.55	30.62	31.01	31.36
	HI PR	2100	2133	2181	2228	2411	2439	2489	2536	2747	2770	2820	2866	3112	3127	3176	3221	3503	3511	3557	3598
	LO PR	779	832	918	1013	804	850	937	1033	832	869	956	1054	863	889	977	1076	897	911	999	1099
875	kW†	16.53	17.37	18.86	20.37	15.83	16.47	17.83	19.20	15.06	15.50	16.73	17.97	14.25	14.49	15.60	16.72	13.36	13.44	14.41	15.41
	S/T‡	1.00	0.92	0.71	0.53	1.00	0.94	0.73	0.54	1.00	0.96	0.75	0.55	1.00	1.00	0.77	0.56	1.00	1.03	0.80	0.58
	AMPS*	20.15	20.38	20.78	21.20	22.50	22.70	23.10	23.49	25.05	25.20	25.59	25.97	27.81	27.90	28.29	28.65	30.75	30.78	31.15	31.50
	HI PR	2111	2139	2187	2233	2422	2446	2494	2541	2758	2776	2825	2871	3122	3134	3181	3226	3513	3517	3561	3602
	LO PR	796	843	929	1024	821	860	947	1045	850	879	967	1065	880	899	987	1087	914	921	1008	1109
920	kW†	16.80	17.52	19.00	20.50	16.07	16.60	17.94	19.30	15.28	15.61	16.82	18.06	14.43	14.59	15.67	16.78	13.52	13.54	14.46	15.46
	S/T‡	1.00	0.93	0.72	0.54	1.00	0.96	0.74	0.55	1.00	0.98	0.76	0.56	1.00	1.02	0.78	0.57	1.00	1.00	0.81	0.59
	AMPS*	20.34	20.53	20.94	21.35	22.69	22.85	23.25	23.64	25.24	25.35	25.74	26.12	28.00	28.05	28.43	28.79	30.93	30.94	31.29	31.64
	HI PR	2121	2144	2192	2238	2432	2452	2500	2546	2768	2782	2830	2875	3132	3139	3186	3229	3522	3523	3565	3606
	LO PR	812	853	940	1035	838	870	957	1055	866	889	976	1075	897	909	996	1096	931	933	1016	1117

HEATING (English)		60 Size Outdoor With EBW6000A Indoor Heating																							
		Outdoor Ambient Temperature – Degrees F, Dry Bulb																							
		-3			7			17			27			37			47			57			67		
		Entering Indoor Temperature – Degrees F, Dry Bulb																							
CFM		65	70	75	65	70	75	65	70	75	65	70	75	65	70	75	65	70	75	65	70	75			
1750	MBh†	23.09	22.33	21.52	28.80	28.11	27.37	35.86	34.66	33.70	42.52	41.96	41.41	50.08	49.41	48.73	58.73	58.06	57.29	67.05	66.48	65.93	75.25	74.76	74.17
	T/R	15.10	14.60	14.10	18.90	18.40	17.90	23.50	22.70	22.00	27.90	27.50	27.00	32.90	32.30	31.80	38.50	38.00	37.40	44.00	43.50	43.10	49.40	48.90	48.40
	AMPS*	15.19	15.86	16.53	16.15	16.91	17.67	17.36	18.04	18.83	18.50	19.40	20.33	19.83	20.78	21.75	21.08	22.15	23.25	22.54	23.61	24.72	24.13	25.27	26.44
	HI PR	234	249	266	249	265	282	269	284	301	290	308	327	315	333	353	337	358	379	366	386	408	397	419	441
	LO PR	32	33	33	41	42	42	52	52	53	64	64	64	77	77	78	92	92	93	106	107	108	120	121	122
1850	MBh†	23.25	22.49	21.68	28.98	28.28	27.55	36.04	34.93	33.94	42.72	42.16	41.61	50.36	49.65	48.98	58.87	58.27	57.60	66.96	66.49	65.91	74.90	74.48	73.98
	T/R	14.40	13.90	13.40	18.00	17.50	17.00	22.40	21.60	21.00	26.50	26.10	25.70	31.20	30.70	30.30	36.50	36.10	35.60	41.60	41.20	40.70	46.50	46.10	45.70
	AMPS*	15.21	15.89	16.57	16.15	16.90	17.67	17.31	18.01	18.79	18.41	19.31	20.24	19.70	20.65	21.61	20.84	21.90	22.98	22.25	23.33	24.43	23.73	24.88	26.05
	HI PR	232	248	264	246	263	280	266	281	298	286	304	323	310	328	348	330	351	372	358	379	400	387	409	432
	LO PR	32	33	33	41	42	42	52	52	52	63	64	64	77	77	78	91	92	93	105	106	107	118	120	121
1950	MBh†	23.40	22.64	21.84	29.14	28.45	27.72	36.20	35.19	34.16	42.92	42.34	41.78	50.63	49.90	49.20	58.94	58.41	57.81	66.90	66.39	65.88	74.09	74.12	73.65
	T/R	13.80	13.30	12.80	17.20	16.70	16.20	21.30	20.70	20.00	25.30	24.90	24.50	29.80	29.30	28.80	34.70	34.30	33.90	39.40	39.00	38.60	43.60	43.50	43.20
	AMPS*	15.25	15.93	16.61	16.15	16.91	17.68	17.28	18.00	18.77	18.34	19.23	20.17	19.62	20.54	21.51	20.65	21.68	22.77	22.00	23.08	24.19	23.30	24.53	25.71
	HI PR	230	246	262	244	260	277	263	278	295	282	300	319	305	324	343	325	345	366	351	372	393	377	400	423
	LO PR	32	33	33	41	42	42	51	52	52	63	64	64	77	77	78	91	92	92	104	105	106	116	118	120

HEATING (SI)		60 Size Outdoor With EBW6000A Indoor Heating																							
		Outdoor Ambient Temperature – Degrees C, Dry Bulb																							
		-19			-14			-8			-3			3			8			14			19		
		Entering Indoor Temperature – Degrees C, Dry Bulb																							
L/S		18	21	24	18	21	24	18	21	24	18	21	24	18	21	24	18	21	24	18	21	24	18	21	24
825	kW†	6.76	6.54	6.31	8.44	8.23	8.02	10.51	10.16	9.87	12.46	12.29	12.13	14.67	14.48	14.28	17.21	17.01	16.79	19.65	19.48	19.32	22.05	21.90	21.73
	T/R	8.00	8.00	8.00	10.00	10.00	10.00	13.00	13.00	12.00	15.00	15.00	15.00	18.00	18.00	18.00	21.00	21.00	21.00	24.00	24.00	24.00	27.00	27.00	27.00
	AMPS*	15.19	15.86	16.53	16.15	16.91	17.67	17.36	18.04	18.83	18.50	19.40	20.33	19.83	20.78	21.75	21.08	22.15	23.25	22.54	23.61	24.72	24.13	25.27	26.44
	HI PR	1612	1720	1831	1714	1828	1945	1858	1958	2073	1999	2124	2255	2170	2298	2432	2323	2465	2613	2520	2663	2810	2735	2886	3041
	LO PR	223	226	229	286	289	292	356	359	362	438	441	444	531	534	537	632	636	641	730	737	744	824	834	842
875	kW†	6.81	6.59	6.35	8.49	8.29	8.07	10.56	10.23	9.94	12.52	12.35	12.19	14.75	14.55	14.35	17.25	17.07	16.88	19.62	19.48	19.31	21.94	21.82	21.68
	T/R	8.00	8.00	7.00	10.00	10.00	9.00	12.00	12.00	12.00	15.00	15.00	14.00	17.00	17.00	17.00	20.00	20.00	20.00	23.00	23.00	23.00	26.00	26.00	25.00
	AMPS*	15.21	15.89	16.57	16.15	16.90	17.67	17.31	18.01	18.79	18.41	19.31	20.24	19.70	20.65	21.61	20.84	21.90	22.98	22.25	23.33	24.43	23.73	24.88	26.05
	HI PR	1599	1707	1820	1697	1811	1928	1835	1938	2052	1971	2096	2227	2136	2265	2398	2278	2418	2563	2468	2611	2758	2669	2820	2975
	LO PR	223	226	229	285	288	291	355	358	362	438	440	443	530	533	536	629	634	639	724	732	739	814	825	834
920	kW†	6.86	6.63	6.40	8.54	8.34	8.12	10.61	10.31	10.01	12.57	12.41	12.24	14.84	14.62	14.42	17.27	17.11	16.94	19.60	19.45	19.30	21.71	21.72	21.58
	T/R	8.00	7.00	7.00	10.00	9.00	9.00	12.00	11.00	11.00	14.00	14.00	14.00	17.00	16.00	16.00	19.00	19.00	19.00	22.00	22.00	21.00	24.00	24.00	24.00
	AMPS*	15.25	15.93	16.61	16.15	16.91	17.68	17.28	18.00	18.77	18.34	19.23	20.17	19.62	20.54	21.51	20.65	21.68	22.77	22.00	23.08	24.19	23.30	24.53	25.71
	HI PR	1588	1696	1809	1682	1796	1913	1815	1920	2033	1947	2071	2201	2104	2234	2368	2239	2376	2521	2422	2564	2711	2598	2761	2916
	LO PR	223	226	228	285	288	291	355	358	361	437	440	443	530	533	536	626	632	637	718	726	734	800	815	825

**BUILDING HEAT LOSS KW  
UNT INTEGRATED HEATING CAPACITY, KW**



**BALANCE POINT WORKSHEET**

## **SYSTEM DESIGN**

1. Intended for outdoor installation with free air inlet and outlet. Outdoor fan external static pressure available is less than 0.01-in. wc.
2. Minimum outdoor operating air temperature without low-ambient operation accessory is 55°F (12.8°C).
3. Maximum outdoor operating air temperature is 125°F (52°C).
4. For reliable operation, unit should be level in all horizontal planes.
5. For interconnecting refrigerant tube lengths greater than 80 ft (23.4 m) and/or 35 ft (10.7 m) vertical differential, consult Residential Piping and Longline Guideline and Service Manual available from equipment distributor.
6. If any refrigerant tubing is buried, provide a 6 in. (152.4 mm) vertical rise to the valve connections at the unit. Refrigerant tubing lengths up to 36 in. (914.4 mm) may be buried without further consideration. Do not bury refrigerant lines longer than 36 in. (914.4 mm).
7. Use only copper wire for electric connection at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.
8. Do not apply capillary tube indoor coils to these units.
9. Factory-supplied filter drier must be installed.

<b>OUTDOOR UNIT MODEL NUMBER IDENTIFICATION GUIDE (single phase)</b>												
Digit Position:	1	2	3	4	5, 6	7	8	9	10	11	12	
Example Part Number:	<b>R</b>	<b>4</b>	<b>H</b>	<b>E</b>	<b>24</b>	<b>P</b>	<b>W</b>	<b>A</b>	<b>1</b>	<b>0</b>	<b>0</b>	
Product Family	<b>REFRIGERANT</b>		<b>TYPE</b>		<b>IDENTIFIER</b>		<b>NOMINAL CAPACITY</b>		<b>FEATURES</b>		<b>VOLTAGE</b>	
2 = R-22												
4 = R-410A												
A = Air Conditioner												
H = Heat Pump												
E = Export												
18 = 18,000 BTUH = 1½ tons												
24 = 24,000 BTUH = 2 tons												
30 = 30,000 BTUH = 2½ tons												
36 = 36,000 BTUH = 3 tons												
42 = 42,000 BTUH = 3½ tons												
48 = 48,000 BTUH = 4 tons												
60 = 60,000 BTUH = 5 tons												
P = High and Low Pressure Switches												
W = 230-1-50												
Z = 400-3-50												
Sales Code												
Engineering Revision												
Extra Digit												
Extra Digit												

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