

**50HCQ 3 to 10 Nominal Tons
Single Package Rooftop
Heat Pump
with Puron® (R-410A) Refrigerant
Sizes: 04 – 12**



Electrical Data Supplement

FOR MODELS PRODUCED ON OR AFTER JULY 30, 2012 ONLY!

NOTE: Read the entire instruction manual before starting the installation

This supplement only applies to 50HCQ size 04 to 12 units manufactured on or after July 30, 2012. To confirm the date of manufacture of a 50HCQ unit, locate the unit nameplate and check the first four digits of the Serial Number. If the number listed in the first 4 digits of the Serial Number is 3112 or higher **KEEP THIS DOCUMENT** and use it along with the furnished Installation Instructions. See Fig. 1 for location of the nameplate; the Serial Number is located directly below the unit's Model Number.

SERIAL NUMBER NOMENCLATURE

Position:	1	2	3	4	5	6	7	8	9	10
Example:	3	1	1	2	U	1	2	3	4	5

Week of manufacture (fiscal calendar)	Manufacturing location	Sequence number
Year of manufacture ("12" = 2012)		

C12562

To select which tables apply to a given unit, check the 7th and 8th digits of the Model Number to determine the unit's size (Cooling Tons) and the 17th digit to determine the unit's electrical option(s).

MODEL NUMBER NOMENCLATURE

Position:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Example:	5	0	H	C	Q	D	0	9	A	2	A	6	A	0	A	3	G	0

Cooling Tons

04 - 3 ton
05 - 4 ton
06 - 5 ton
07 - 6 ton
08 - 7.5 ton
09 - 8.5 ton
12 - 10 ton

Electrical Options


A = None
C = Non-Fused Disconnect
D = Thru-The-Base Connections
F = Non-Fused Disconnect and Thru-The-Base Connections
G = 2-Speed Indoor Fan (VFD) Controller
J = 2-Speed Indoor Fan (VFD) Controller and Non-Fused Disconnect (NFD)
K = 2-Speed Indoor Fan (VFD) Controller and Thru-The-Base Connections
M = 2-Speed Indoor Fan (VFD) Controller w/ Non-Fused Disconnect (NFD) and Thru-The-Base Connections

C12588

SAFETY CONSIDERATIONS

Improper installation, adjustment, alteration, service, maintenance, or use can cause explosion, fire, electrical shock or other conditions which may cause personal injury or property damage. Consult a qualified installer, service agency, or your distributor or branch for information or assistance. The qualified installer or agency must use factory-authorized kits or accessories when modifying this product. Refer to the individual instructions packaged with the kits or accessories when installing.

Follow all safety codes. Wear safety glasses and work gloves. Use quenching cloths for brazing operations and have a fire extinguisher available. Read these instructions thoroughly and follow all warnings or cautions attached to the unit. Consult local building codes and appropriate national electrical codes (in USA, ANSI/NFPA70, National Electrical Code (NEC); in Canada, CSA C22.1) for special requirements.

It is important to recognize safety information. This is the safety-alert symbol . When you see this symbol on the unit and in instructions or manuals, be alert to the potential for personal injury.

Understand the signal words DANGER, WARNING, CAUTION, and NOTE. These words are used with the safety-alert symbol. DANGER identifies the most serious hazards which **will** result in severe personal injury or death. WARNING signifies hazards which **could** result in personal injury or death. CAUTION is used to identify unsafe practices, which **may** result in minor personal

injury or product and property damage. NOTE is used to highlight suggestions which **will** result in enhanced installation, reliability, or operation.

CAUTION

ELECTRICAL HAZARD

Failure to follow this caution may result in personal injury or product and property damage.

The electrical data contained in this document is only for use with 50HCQ size 04 to 12 units manufactured on or after July 30, 2012. Check the first 4 digits of the unit's Serial Number (located on the unit's nameplate) if the number listed is 3112 or higher keep this document.

See Fig. 1 for location of the unit's nameplate. The Serial Number is located directly below the unit's Model number.

WARNING

ELECTRICAL SHOCK HAZARD

Failure to follow this warning could cause personal injury or death.

Before performing service or maintenance operations on unit, always turn off main power switch to unit and install lockout tag. Unit may have more than one power switch.

50HCQ*04--12

Nameplate Location

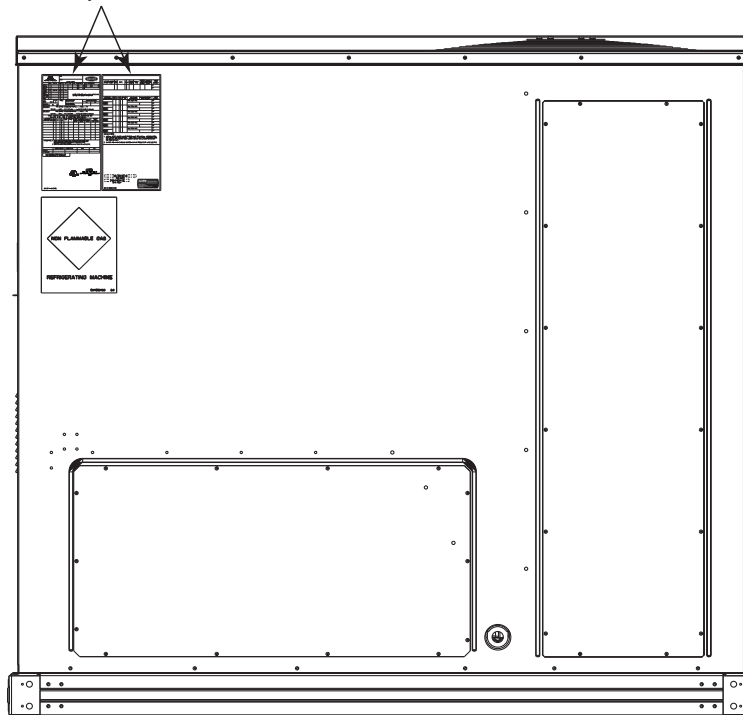


Fig. 1 - Location of Unit Nameplate

C101301

Table 1 – Unit Wire/Fuse or HACR Breaker Sizing Data

UNIT	NO M, V-PH-HZ	ELEC. HTR			NO C.O. or UNPWR C.O.																												
		CRHEATER***A00	Nom (kW)	FLA	NO PE.				w/ P.E. (pwrd fr/unit)				NO PE.				w/ PWRD C.O.																
					MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	MCA	FUSE or HACR BRKR	FLA	DISC. SIZE													
50HCOA04	208/230-1-60	DD-STD	NONE	-	-	30	45	29	88	32	45	31	90	34	50	36	50	36	93	36	50	36	93	36	50	36	93	36	50	36	93		
			101A	3.3/4.4	15.9/18.3	49/52	60/60	47/50	104/106	51/54	60/60	49/52	106/108	54/57	60/60	53/55	60/60	56/59	60/60	109/111	56/59	60/60	55/58	109/111	56/59	60/60	55/58	109/111	56/59	60/60	55/58	111/113	
			102A	4.9/6.5	23.5/27.1	59/63	60/70	56/60	112/115	61/65	70/70	58/62	114/117	64/68	70/70	61/65	70/70	66/70	66/70	117/120	66/70	70/70	63/68	117/120	66/70	70/70	63/68	117/120	66/70	70/70	63/68	119/122	
			103B	6.5/8.7	31.4/36.3	69/75	70/80	65/70	119/124	71/77	80/80	67/73	121/126	74/80	80/80	70/76	80/80	76/82	80/90	73/78	124/129	76/82	80/90	73/78	124/129	76/82	80/90	73/78	124/129	76/82	80/90	73/78	126/131
			104B	7.9/10.5	37.9/43.8	77/84	80/90	72/79	126/132	79/86	80/90	75/81	128/134	82/89	90/90	78/85	90/90	84/91	90/100	80/87	131/137	84/91	90/100	80/87	131/137	84/91	90/100	80/87	131/137	84/91	90/100	80/87	133/139
			102A+102A	9.8/13.0	46.9/54.2	88/97	90/100	83/91	182/196	90/99	90/100	85/93	184/198	93/102	100/110	88/97	100/110	95/104	100/110	90/99	187/201	95/104	100/110	90/99	187/201	95/104	100/110	90/99	187/201	95/104	100/110	90/99	189/203
			NONE	-	-	22	30	22	82	24	30	24	30	24	84	27	30	29	35	29	87	29	35	29	87	29	35	29	87	29	35	29	89
			101A	3.3/4.4	9.2/10.6	33/35	40/40	32/34	91/93	35/37	40/40	34/36	40/40	34/36	93/95	38/40	45/45	38/40	40/42	45/45	96/98	40/42	45/45	40/42	96/98	40/42	45/45	40/42	45/45	40/42	45/45	40/42	98/100
			102A	4.9/6.5	13.6/15.6	39/41	45/45	37/40	96/98	41/43	45/45	39/42	45/45	39/42	98/100	44/46	50/50	44/46	46/48	50/50	101/103	46/48	50/50	45/47	101/103	46/48	50/50	45/47	101/103	46/48	50/50	45/47	103/105
			103B	6.5/8.7	18.1/20.9	44/48	45/50	42/46	100/103	46/50	50/50	45/48	50/50	45/48	102/105	49/53	50/60	49/53	50/60	50/53	105/108	49/53	50/60	50/53	105/108	49/53	50/60	50/53	105/108	49/53	50/60	50/53	107/110
104B	7.9/10.5	21.9/25.3	49/53	50/60	47/51	104/107	51/55	60/60	49/53	60/60	49/53	106/109	54/58	60/60	54/58	60/60	55/58	109/112	54/58	60/60	55/58	109/112	54/58	60/60	55/58	109/112	54/58	60/60	55/58	111/114			
105A	12.0/16.0	33.4/38.5	64/70	70/70	60/66	115/121	66/72	70/80	62/68	70/80	62/68	117/123	68/75	70/80	68/75	70/80	68/74	120/126	68/75	70/80	68/74	120/126	68/75	70/80	68/74	120/126	68/75	70/80	68/74	122/128			
208/230-3-60	DD-STD	NONE	-	-	20/19	25/25	19/19	111	22/21	30/30	21/21	113	24/24	30/30	25/24	30/30	27/26	116	26/26	30/30	27/26	116	26/26	30/30	27/26	116	26/26	30/30	27/26	118			
		101A	3.3/4.4	9.2/10.6	31/33	35/35	30/31	120/122	33/35	40/40	32/33	122/124	36/37	40/40	35/36	40/40	35/36	125/127	38/39	45/45	37/39	37/39	125/127	38/39	45/45	37/39	37/39	45/45	37/39	45/45	127/129		
		102A	4.9/6.5	13.6/15.6	37/39	40/40	35/37	125/127	39/41	45/45	37/39	127/129	41/44	45/45	40/42	45/45	40/42	43/46	130/132	43/46	45/50	42/44	42/44	130/132	43/46	45/50	42/44	42/44	45/50	42/44	45/50	132/134	
		103B	6.5/8.7	18.1/20.9	42/45	45/50	40/43	129/132	44/47	45/50	42/45	131/134	47/50	50/50	45/48	50/50	45/48	49/52	134/137	49/52	50/60	48/50	48/50	134/137	49/52	50/60	48/50	48/50	50/60	48/50	50/60	136/139	
		104B	7.9/10.5	21.9/25.3	47/51	50/60	44/48	133/136	49/53	50/60	46/50	135/138	52/56	60/60	50/53	60/60	50/53	54/58	138/141	54/58	60/60	52/56	52/56	138/141	54/58	60/60	52/56	52/56	60/60	52/56	60/60	140/143	
		105A	12.0/16.0	33.4/38.5	61/67	70/70	58/63	144/150	63/69	70/70	60/65	146/152	66/72	70/80	63/69	70/80	63/69	68/74	149/155	68/74	70/80	66/72	66/72	149/155	68/74	70/80	66/72	66/72	70/80	66/72	70/80	151/157	
		NONE	-	-	21/21	30/30	21/21	132	23/23	30/30	23/23	30/30	23/23	134	26/26	30/30	25/24	30/30	27/26	137	28/28	35/35	29/29	137	28/28	35/35	29/29	137	28/28	35/35	29/29	139	
		101A	3.3/4.4	9.2/10.6	33/34	40/40	32/33	141/143	35/36	40/40	34/35	40/40	34/35	143/145	38/39	45/45	38/39	40/41	45/45	146/148	40/41	45/45	39/41	146/148	40/41	45/45	39/41	39/41	45/45	39/41	45/45	148/150	
		102A	4.9/6.5	13.6/15.6	38/41	40/45	37/39	146/148	40/43	45/45	39/41	45/45	39/41	148/150	43/45	45/50	43/45	45/47	151/153	45/47	50/50	44/47	44/47	151/153	45/47	50/50	44/46	44/46	50/50	44/46	50/50	153/155	
		103B	6.5/8.7	18.1/20.9	44/47	45/50	42/45	150/153	46/49	50/50	44/47	50/50	44/47	152/155	49/52	50/60	49/52	50/60	47/50	155/158	51/54	60/60	50/53	155/158	51/54	60/60	50/53	50/53	60/60	50/53	60/60	157/160	
104B	7.9/10.5	21.9/25.3	49/53	50/60	46/50	154/157	51/55	60/60	48/52	60/60	48/52	156/159	54/58	60/60	54/58	60/60	52/55	159/162	55/59	60/60	54/58	159/162	55/59	60/60	54/58	54/58	60/60	54/58	60/60	161/164			
105A	12.0/16.0	33.4/38.5	63/69	70/70	59/65	165/171	65/71	70/80	62/67	70/80	62/67	167/173	68/74	70/80	68/74	70/80	65/71	170/176	70/76	70/80	67/73	170/176	70/76	70/80	67/73	67/73	70/80	67/73	70/80	172/178			

See: *Legend and Notes for Tables 1 and 2 * on page 18.

Table 1 - Unit Wire/Fuse or HACR Breaker Sizing Data (cont)

UNIT	NO M-V-Ph-HZ	IFM TYPE	ELEC. HTR			NO C.O. or UNPWR C.O.																											
			CRHEATER**A00	Nom (kW)	FLA	NO P.E.				w/ P.E. (pwrd fr/unit)				NO P.E.				w/ P.E. (pwrd fr/unit)															
						MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	LRA	MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	LRA	MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	LRA	MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	LRA								
50HCC04	460-3-60	DD-STD	NONE	-	-	12	15	12	13	44	14	20	14	45	15	20	14	46	15	20	16	46	15	20	14	45	15	20	14	46			
			106A	6.0	7.2	20	25	21	21	51	23	25	23	25	52	24	25	24	53	24	25	24	53	24	25	24	25	24	25	24	53		
			107A	8.8	10.6	24	25	24	25	55	28	30	27	30	56	29	30	27	57	29	30	28	57	29	30	27	30	28	29	30	28	57	
			108A	11.5	13.8	28	30	28	29	58	32	35	30	35	59	33	35	31	60	33	35	31	60	33	35	31	35	35	31	60	33	60	
			109A	14.0	16.8	33	35	31	32	61	35	35	34	35	62	36	40	34	63	36	40	35	63	36	40	35	35	40	35	35	63	63	
			NONE	-	-	10	15	11	11	58	13	15	13	15	59	14	15	13	60	14	15	14	60	14	15	13	15	14	15	14	60	14	60
	460-3-60	MED	106A	6.0	7.2	18	20	18	20	64	21	25	20	20	65	22	25	21	66	23	25	22	67	23	25	22	25	23	25	22	67	23	67
			107A	8.8	10.6	22	25	22	23	68	25	25	23	27	69	26	30	25	70	27	30	26	71	27	30	26	30	27	30	26	71	27	71
			108A	11.5	13.8	26	30	26	27	71	29	30	27	29	72	30	30	29	73	31	35	29	74	31	35	29	30	31	35	30	74	31	74
			109A	14.0	16.8	29	35	29	31	74	33	35	31	31	75	34	35	32	76	35	35	32	77	35	35	32	35	35	33	77	35	77	
			NONE	-	-	11	15	11	12	68	14	15	12	12	68	14	15	12	69	15	15	14	70	15	15	14	15	15	14	70	15	70	
			106A	6.0	7.2	19	25	19	21	75	23	25	21	21	75	24	25	22	76	24	25	22	77	24	25	22	25	23	25	23	77	24	77
575-3-60	DD-STD	107A	8.8	10.6	23	25	23	24	78	26	30	24	79	27	30	26	80	28	30	27	81	28	30	27	81	28	30	27	81	28	81	28	81
		108A	11.5	13.8	27	30	27	28	81	30	30	28	82	31	35	30	83	32	35	30	84	32	35	30	83	32	35	31	84	32	84		
		109A	14.0	16.8	30	35	30	32	84	34	35	32	85	35	36	35	86	36	40	33	87	36	40	33	35	40	34	34	87	36	87		
		NONE	-	-	10	15	10	12	44	11	15	12	44	11	15	12	44	13	15	12	44	13	15	12	44	13	15	12	44	13	46		
		297A	9.2	9.2	20	25	20	22	53	23	25	22	53	23	25	22	55	25	25	22	55	25	25	22	55	25	25	24	55	25	55		
		298A	13.8	13.8	27	30	25	28	58	29	30	28	58	29	30	27	58	31	35	27	58	31	35	27	58	31	35	30	60	30	60		
575-3-60	MED	NONE	-	-	7	15	7	45	9	15	9	47	9	15	9	47	11	15	9	47	11	15	9	47	11	15	9	47	11	49			
		297A	9.2	9.2	17	20	17	54	21	25	20	56	21	25	19	56	22	25	19	56	22	25	19	56	22	25	22	58	22	58			
		298A	13.8	13.8	23	25	23	59	26	30	25	61	26	30	25	61	28	30	25	61	28	30	25	61	28	30	27	63	27	63			
575-3-60	HIGH	NONE	-	-	7	15	7	49	10	15	9	51	9	15	9	51	11	15	9	51	11	15	9	51	11	15	9	51	11	53			
		297A	9.2	9.2	18	20	18	58	21	25	20	60	21	25	20	60	23	25	20	60	23	25	20	60	23	25	22	62	22	62			
		298A	13.8	13.8	23	25	23	63	27	30	25	65	27	30	25	65	29	30	25	65	29	30	25	65	29	30	27	67	27	67			

See: "Legend and Notes for Tables 1 and 2" on page 18.

Table 1 - Unit Wire/Fuse or HACR Breaker Sizing Data (cont)

UNIT	NO M, V-PH-HZ	ELEC. HTR			NO C.O. or UNPWR C.O.																		
		CRHEATER**A00	Nom (kW)	FLA	NO PE.				w/ P.E. (pwrd fr/unit)				NO PE.				w/ PWR C.O.						
					MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	LRA	MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	LRA	MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	LRA				
50HCA05	208/230-1-60	DD-STD	NONE	-	-	34	50	33	119	36	50	35	121	39	50	38	124	41	60	41	126		
			101A	3.3/4.4	15.9/18.3	54/57	60/60	51/54	135/137	56/59	60/60	53/56	137/139	59/62	60/70	57/59	140/142	61/64	70/70	59/62	142/144		
			103B	6.5/8.7	31.4/36.3	73/79	80/80	69/75	150/155	75/81	80/90	71/77	152/157	78/84	80/90	75/80	155/160	80/86	80/90	77/82	157/162		
			102A+102A	9.8/13.0	46.9/54.2	93/102	100/110	87/95	213/227	95/104	100/110	89/97	215/229	97/107	100/110	92/101	218/232	98/108	100/110	95/103	220/234		
			103B+103B	13.1/17.4	62.8/72.5	113/125	125/125	105/116	245/264	114/127	125/150	107/118	247/266	117/129	125/150	111/122	250/269	119/131	125/150	113/124	252/271		
			104B+104B	15.8/21.0	75.8/87.5	129/143	150/150	120/134	271/294	131/145	150/150	122/136	273/296	134/148	150/150	126/139	276/299	135/150	150/150	128/141	278/301		
			NONE	-	-	26	30	25	93	28	40	27	95	30	95	30	40	31	98	32	40	33	100
			102A	4.9/6.5	13.6/15.6	43/45	50/50	41/43	107/109	45/47	50/50	43/45	109/111	47/50	109/111	47/50	50/50	46/49	112/114	49/52	50/60	49/51	114/116
			103B	6.5/8.7	18.1/20.9	48/52	50/60	46/49	111/114	50/54	50/60	48/51	113/116	53/57	113/116	53/57	60/60	52/55	116/119	55/58	60/60	54/57	118/121
			105A	12.0/16.0	33.4/38.5	67/74	70/80	64/69	126/132	69/76	70/80	66/72	128/134	72/79	128/134	72/79	80/80	69/75	131/137	74/80	80/90	71/77	133/139
104B+104B	15.8/21.0	43.8/50.5	80/89	80/90	76/83	181/194	82/91	90/100	78/85	183/196	85/94	183/196	85/94	90/100	81/89	186/199	87/95	90/100	83/91	188/201			
MED	208/230-3-60	NONE	-	-	29/23	30/30	23/22	122	25/25	30/30	25/24	124	28/28	40/40	28/28	127	30/30	40/40	40/40	30/30	129		
		102A	4.9/6.5	13.6/15.6	40/43	45/50	38/40	136/138	42/45	50/50	40/42	138/140	45/47	50/50	44/46	141/143	47/49	50/50	46/48	50/50	143/145		
		103B	6.5/8.7	18.1/20.9	46/49	50/50	43/46	140/143	48/51	50/60	46/49	142/145	51/54	50/60	49/52	145/148	53/56	60/60	51/54	60/60	147/150		
		105A	12.0/16.0	33.4/38.5	65/71	70/80	61/67	155/161	67/73	70/80	63/69	157/163	70/76	70/80	67/72	160/166	72/78	80/80	69/74	80/80	69/74	162/168	
		104B+104B	15.8/21.0	43.8/50.5	78/86	80/90	73/80	210/223	80/88	80/90	75/83	212/225	83/91	90/100	79/86	215/228	85/93	90/100	81/88	90/100	217/230		
HIGH	208/230-1-60	NONE	-	-	25/25	30/30	25/24	143	27/27	30/30	27/27	145	30/30	40/40	30/30	148	32/32	40/40	40/40	32/32	150		
		102A	4.9/6.5	13.6/15.6	42/44	50/50	40/42	157/159	44/46	50/50	42/45	159/161	47/49	50/50	46/48	162/164	49/51	50/60	48/50	50/60	164/166		
		103B	6.5/8.7	18.1/20.9	48/51	50/60	45/48	161/164	50/53	50/60	48/51	163/166	53/56	60/60	51/54	166/169	54/58	60/60	53/56	60/60	168/171		
		105A	12.0/16.0	33.4/38.5	67/73	70/80	63/69	176/182	69/75	70/80	65/71	178/184	72/78	80/80	69/74	181/187	74/80	80/80	71/76	80/80	183/189		
104B+104B	15.8/21.0	43.8/50.5	80/88	80/90	75/82	231/244	82/90	90/90	77/85	233/246	85/93	90/100	81/88	236/249	87/95	90/100	83/90	90/100	238/251				

See: "Legend and Notes for Tables 1 and 2" on page 18.

Table 1 - Unit Wire/Fuse or HACR Breaker Sizing Data (cont)

UNIT	NO M-V-PH-HZ	IFM TYPE	ELEC. HTR			NO C.O. or UNPWR C.O.												w/ PWRD C.O.											
			CRHEATER**A00	Nom (kW)	FLA	NO PE.				w/ P.E. (pwrd fr/unit)				NO PE.				w/ P.E. (pwrd fr/unit)											
						MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	LRA	MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	LRA	MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	LRA									
50HCC0A05		DD-STD	NONE	-	-	13	15	15	14	14	48	15	20	20	15	15	49	16	20	20	16	50							
			108A	6.0	7.2	21	25	25	23	22	55	24	25	25	23	56	25	25	25	25	24	57							
			108A	11.5	13.8	28	30	31	30	30	62	32	35	35	31	63	33	35	33	35	32	64							
			108A	14.0	16.8	32	35	35	33	33	65	36	40	40	34	66	37	40	36	40	36	67							
		108A+108A	23.0	27.7	44	50	49	46	46	103	50	50	50	47	104	51	60	48	60	48	105								
		MED	NONE	-	-	11	15	15	12	12	62	14	15	15	13	63	15	20	14	20	14	64							
			108A	6.0	7.2	19	20	21	20	20	69	23	25	25	22	70	24	25	23	25	23	71							
			108A	11.5	13.8	27	30	30	28	28	76	31	35	35	29	77	32	35	30	35	30	78							
			108A	14.0	16.8	30	35	33	31	31	79	35	40	40	33	80	36	40	34	40	34	81							
		108A+108A	23.0	27.7	43	50	47	44	44	117	48	50	50	45	118	49	50	46	50	46	119								
HIGH	NONE	-	-	12	15	15	13	13	72	14	15	15	14	73	15	20	14	20	14	74									
	108A	6.0	7.2	20	25	21	20	21	79	23	25	25	23	80	24	25	23	25	24	81									
	108A	11.5	13.8	28	30	31	29	29	86	32	35	35	30	87	33	35	31	35	31	88									
	108A	14.0	16.8	31	35	34	32	32	89	35	40	40	34	90	36	40	35	40	35	91									
108A+108A	23.0	27.7	44	50	48	45	45	127	49	50	50	46	128	50	50	47	50	47	129										
DD-STD	NONE	-	-	11	15	15	13	13	41	12	15	15	13	41	14	20	14	20	14	43									
	297A	9.2	9.2	21	25	24	23	23	50	24	25	25	23	50	26	30	26	30	25	52									
	298A	13.8	13.8	26	30	30	29	29	55	30	30	30	28	55	32	35	31	35	31	57									
	NONE	-	-	8	15	15	10	10	44	10	15	15	10	44	12	15	12	15	12	46									
MED	297A	9.2	9.2	18	20	22	21	21	53	22	25	25	20	53	23	25	23	25	23	55									
	298A	13.8	13.8	24	30	28	26	26	58	27	30	30	26	58	29	30	28	30	28	60									
HIGH	NONE	-	-	8	15	15	10	10	48	10	15	15	10	48	12	15	12	15	12	50									
	297A	9.2	9.2	19	20	22	21	21	57	22	25	25	21	57	24	25	23	25	23	59									
298A	13.8	13.8	24	30	26	26	26	62	28	30	30	26	62	30	30	28	30	28	64										

See: "Legend and Notes for Tables 1 and 2" on page 18.

Table 1 - Unit Wire/Fuse or HACR Breaker Sizing Data (cont)

UNIT	NO M, V-PH-HZ	ELEC. HTR				NO C.O. or UNPWR C.O.						w/ PWRD C.O.								
		CRHEATER***A00	Nom (kW)	FLA	NO RE.			w/ P.E. (pwrdr fr/unit)			NO P.E.			w/ P.E. (pwrdr fr/unit)						
					MCA	FUSE or BRKR	DISC. SIZE FLA LRA	MCA	FUSE or BRKR	DISC. SIZE FLA LRA	MCA	FUSE or BRKR	DISC. SIZE FLA LRA	MCA	FUSE or BRKR	DISC. SIZE FLA LRA				
50HQA06	208/230-1-60	NONE	-	-	41	60	39	144	42	60	41	146	45	60	44	149	47	60	47	151
		102A	4.9/6.5	23.5/27.1	70/74	80/80	66/70	168/171	72/76	80/80	68/72	170/173	75/79	80/80	71/76	173/176	77/81	80/90	74/78	175/178
		103B	6.5/8.7	31.4/36.3	80/86	80/100	75/81	175/180	82/88	90/100	77/83	177/182	85/91	100/100	81/86	180/185	86/93	100/100	83/88	182/187
		102A+102A	9.8/13.0	46.9/54.2	99/108	100/110	93/101	238/252	101/110	110/110	95/103	240/254	104/113	110/125	99/107	243/257	106/115	110/125	101/109	245/259
		103B+103B	13.1/17.4	62.8/72.5	119/131	125/150	111/122	270/289	121/133	125/150	113/124	272/291	124/136	125/150	117/128	275/294	126/138	150/150	119/130	277/296
50HQA06	208/230-3-60	104B+104B	15.8/21.0	75.8/87.5	135/150	150/150	126/139	296/319	137/152	150/175	128/142	298/321	140/155	150/175	132/145	301/324	142/157	150/175	134/147	303/326
		NONE	-	-	29	40	28	120	31	45	31	122	34	45	34	125	36	50	36	127
		102A	4.9/6.5	13.6/15.6	46/49	50/60	44/46	134/136	48/51	60/60	46/49	136/138	51/53	60/60	50/52	139/141	53/55	60/60	52/54	141/143
		104B	7.9/10.5	21.9/25.3	57/61	60/70	54/58	142/145	58/63	60/70	56/60	144/147	61/66	70/70	59/63	147/150	63/67	70/70	61/65	149/152
		105A	12.0/16.0	33.4/38.5	71/77	80/80	67/73	153/159	73/79	80/80	69/75	155/161	76/82	80/90	72/78	158/164	78/84	80/90	75/80	160/166
50HQA06	208/230-3-60	104B+104B	15.8/21.0	43.8/50.5	84/92	90/100	79/86	208/221	86/94	90/100	81/89	210/223	89/97	90/100	84/92	213/226	91/99	100/100	86/94	215/228
		104B+105A	19.9/26.5	55.2/63.8	98/109	100/110	92/102	230/248	100/111	100/125	94/104	232/250	103/114	110/125	97/107	235/253	105/116	110/125	100/109	237/255
		NONE	-	-	29/28	40/40	28/28	170	31/30	45/45	30/30	172	33/33	45/45	33/33	175	35/35	50/50	36/35	177
		102A	4.9/6.5	13.6/15.6	46/48	50/50	43/46	184/186	48/50	50/60	46/48	186/188	50/53	60/60	49/51	189/191	52/55	60/60	51/53	191/193
		104B	7.9/10.5	21.9/25.3	56/60	60/60	53/57	192/195	58/62	60/70	55/59	194/197	61/65	70/70	59/62	197/200	63/67	70/70	61/64	199/202
50HQA06	208/230-3-60	105A	12.0/16.0	33.4/38.5	70/77	70/80	66/72	203/209	72/78	80/80	68/74	205/211	75/81	80/90	72/77	208/214	77/83	80/90	74/80	210/216
		104B+104B	15.8/21.0	43.8/50.5	83/92	90/100	78/86	258/271	85/93	90/100	80/88	260/273	88/96	90/100	84/91	263/276	90/98	90/100	86/93	265/278
		104B+105A	19.9/26.5	55.2/63.8	98/108	100/110	91/101	280/298	100/110	100/110	93/103	282/300	102/113	110/125	97/106	285/303	104/115	110/125	99/109	287/305
		NONE	-	-	30/30	45/45	30/29	185	32/32	45/45	32/32	187	35/35	50/50	35/35	190	37/37	50/50	37/37	192
		102A	4.9/6.5	13.6/15.6	47/50	50/60	45/47	199/201	49/51	60/60	47/50	201/203	52/54	60/60	51/53	204/206	54/56	60/60	53/55	206/208
50HQA06	208/230-3-60	104B	7.9/10.5	21.9/25.3	58/62	60/70	55/59	207/210	59/64	60/70	57/61	209/212	62/66	70/70	60/64	212/215	64/68	70/70	62/66	214/217
		105A	12.0/16.0	33.4/38.5	72/78	80/80	68/74	218/224	74/80	80/80	70/76	220/226	77/83	80/90	73/79	223/229	79/85	80/90	76/81	225/231
		104B+104B	15.8/21.0	43.8/50.5	85/93	90/100	80/88	273/286	87/95	90/100	82/90	275/288	90/98	90/100	85/93	278/291	92/100	100/100	88/95	280/293
50HQA06	208/230-3-60	104B+105A	19.9/26.5	55.2/63.8	99/110	100/110	93/103	295/313	101/112	110/125	95/105	297/315	104/115	110/125	99/108	300/318	106/116	110/125	101/111	302/320

See: "Legend and Notes for Tables 1 and 2" on page 18.

Table 1 - Unit Wire/Fuse or HACR Breaker Sizing Data (cont)

UNIT	NO M, V-PH-HZ	ELEC. HTR			NO C.O. or UNPWR C.O.						w/ PWRD C.O.										
		CRHEATER**A00	Nom (kW)	FLA	NO PE.			w/ P.E. (pwrdr fr/unit)			NO PE.			w/ P.E. (pwrdr fr/unit)							
					MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	LRA	MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	LRA	MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	LRA		
50HCA06	DD-STD	NONE	-	-	14	20	14	15	58	15	20	15	59	16	20	16	60	17	20	17	61
		108A	6.0	7.2	23	25	22	25	65	24	25	23	66	24	25	24	67	26	30	26	68
		108A	11.5	13.8	31	35	29	35	72	31	35	31	73	32	35	32	74	34	35	33	75
		108A	14.0	16.8	35	35	33	35	75	34	40	34	76	35	40	35	77	38	40	37	78
		108A+108A	23.0	27.7	49	50	45	50	113	47	50	47	114	48	60	48	115	52	60	49	116
		108A+109A	25.5	30.7	52	60	49	60	119	53	60	50	120	51	60	51	121	56	60	53	122
		NONE	-	-	13	15	13	15	82	14	20	14	83	15	20	15	84	17	20	17	85
		108A	6.0	7.2	22	25	21	25	89	23	25	22	90	24	25	24	91	26	30	25	92
		108A	11.5	13.8	31	35	29	35	96	32	35	30	97	31	35	31	98	34	35	32	99
		108A	14.0	16.8	34	35	32	35	99	35	35	33	100	35	40	35	101	38	40	36	102
50HCA06	460-3-60	108A+108A	23.0	27.7	48	50	45	50	137	49	50	46	138	50	50	47	139	51	60	48	140
		108A+109A	25.5	30.7	52	60	48	60	143	53	60	49	144	54	60	51	145	55	60	52	146
		NONE	-	-	14	20	14	20	90	15	20	15	91	16	20	16	92	17	20	17	93
		108A	6.0	7.2	23	25	22	25	97	24	25	23	98	25	30	25	99	26	30	26	100
		108A	11.5	13.8	31	35	30	35	104	32	35	31	105	34	35	32	106	35	35	33	107
		108A	14.0	16.8	35	35	33	35	107	36	40	34	108	37	40	36	109	38	40	37	110
		108A+108A	23.0	27.7	49	50	46	50	145	50	50	47	146	51	60	48	147	52	60	49	148
		108A+109A	25.5	30.7	53	60	49	60	151	54	60	50	152	55	60	52	153	56	60	53	154
		NONE	-	-	12	15	11	15	46	14	15	14	48	13	15	13	48	15	20	16	50
		298A	13.8	13.8	29	30	27	30	60	31	35	29	62	31	35	29	62	32	35	31	64
575-3-60	DD-STD	301A	23.0	23.1	41	45	38	92	42	45	40	94	42	45	40	94	44	45	42	96	
		NONE	-	-	10	15	9	15	53	12	15	11	55	11	15	11	55	13	15	13	57
		298A	13.8	13.8	27	30	25	30	67	29	30	27	69	29	30	27	69	30	35	29	71
		301A	23.0	23.1	39	40	36	40	99	40	40	38	101	40	40	38	101	42	45	40	103
		NONE	-	-	10	15	10	15	64	12	15	12	66	12	15	12	66	14	15	14	68
		298A	13.8	13.8	28	30	26	30	78	30	30	28	80	29	30	28	80	31	35	30	82
		301A	23.0	23.1	39	40	37	40	110	41	45	39	112	41	45	39	112	43	45	41	114

See: "Legend and Notes for Tables 1 and 2" on page 18.

Table 1 - Unit Wire/Fuse or HACR Breaker Sizing Data (cont)

UNIT	NO M.V.-Ph-HZ	IFM TYPE	ELEC. HTR			NO C.O. or UNPWR C.O.																
			CRHEATER***A00	Nom (kW)	FLA	NO PE.				w/ P.E. (pwrd fr/unit)				NO PE.				w/ PWRD C.O.				
						MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	LRA	MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	LRA	MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	LRA	MCA	FUSE or HACR BRKR
50HCA07	208/230-3-60	STD	NONE	-	-	32/32	50/50	31/31	165	36/36	50/50	36/35	169	37/37	50/50	37/36	170	41/41	50/50	41/41	174	
			264A	4.9/6.5	13.6/15.6	49/52	60/60	47/49	179/181	51/53	183/185	60/60	51/53	183/185	54/56	60/60	52/54	184/186	58/60	60/70	57/59	188/190
			117A	7.8/10.4	21.7/25.0	60/63	60/70	56/60	187/190	61/64	191/194	70/80	61/64	191/194	64/68	70/80	62/65	192/195	68/72	80/80	66/70	196/199
			110A	12.0/16.0	33.4/38.5	74/80	80/80	70/75	198/204	78/84	202/208	80/90	74/80	202/208	79/85	80/90	75/81	203/209	83/89	90/90	80/85	207/213
			117A+117A	15.8/21.0	43.8/50.5	87/95	90/100	82/89	253/266	91/99	257/270	100/100	86/93	257/270	92/100	100/100	87/95	258/271	96/104	100/110	92/99	262/275
			110A+117A	19.9/26.5	55.2/63.8	101/112	110/125	85/104	275/293	105/116	279/297	110/125	99/109	279/297	106/117	110/125	100/110	280/298	110/120	110/125	105/114	284/302
			NONE	-	-	36/36	50/50	35/35	201	39/39	205	40/40	50/50	39/39	205	40/40	50/50	40/40	44/44	60/60	45/45	210
			264A	4.9/6.5	13.6/15.6	53/55	60/60	51/53	215/217	56/59	219/221	60/60	56/58	219/221	57/60	60/60	56/58	220/222	61/64	70/70	60/63	224/226
			117A	7.8/10.4	21.7/25.0	63/67	70/70	60/64	223/226	67/71	227/230	70/80	64/68	227/230	68/72	80/80	65/69	228/231	71/75	80/80	70/73	232/235
			110A	12.0/16.0	33.4/38.5	77/84	80/90	73/79	234/240	81/87	238/244	90/90	78/83	238/244	82/88	90/90	79/85	239/245	86/92	90/100	83/89	243/249
			117A+117A	15.8/21.0	43.8/50.5	90/99	90/100	85/93	289/302	94/102	293/306	100/110	90/97	293/306	95/103	100/110	91/98	294/307	98/107	100/110	95/103	298/311
			110A+117A	19.9/26.5	55.2/63.8	105/115	110/120	98/108	311/329	108/119	315/333	110/125	103/113	315/333	109/120	110/125	104/114	316/334	113/124	125/125	108/118	320/338
50HCA07	460-3-60	STD	NONE	-	-	17	25	16	84	18	25	18	86	19	25	18	86	21	25	20	88	
			266A	6.0	7.2	26	30	27	91	27	30	26	93	28	30	27	93	30	30	29	95	
			268A	11.5	13.8	34	35	32	98	36	40	34	100	36	40	34	100	38	40	36	102	
			267A	14.0	16.8	38	40	35	101	39	40	37	103	40	40	38	103	42	40	40	105	
			268A	23.0	27.7	51	60	48	112	53	60	50	114	54	60	50	114	55	55	60	52	116
			269A	25.5	30.7	55	60	51	115	57	60	53	117	57	60	54	117	59	60	56	119	
			NONE	-	-	18	25	18	102	20	25	18	104	20	104	21	25	20	104	22	30	106
			266A	6.0	7.2	27	30	26	109	29	30	28	111	29	111	30	30	29	111	31	35	113
			268A	11.5	13.8	36	40	34	116	37	40	36	118	38	118	38	40	36	118	40	45	120
			267A	14.0	16.8	39	40	37	119	41	45	39	121	42	121	42	45	40	121	43	45	123
			268A	23.0	27.7	53	60	50	130	55	60	52	132	55	132	55	60	52	132	57	60	123
			269A	25.5	30.7	57	60	53	133	59	60	55	135	59	135	59	60	55	135	61	70	137
575-3-60	STD	NONE	-	-	21	25	20	110	22	30	22	112	23	30	23	112	25	30	25	114		
		266A	6.0	7.2	27	30	26	117	31	35	28	119	32	33	30	29	119	34	40	121		
		268A	11.5	13.8	38	40	36	124	40	45	38	126	40	45	39	126	42	45	41	128		
		267A	14.0	16.8	42	45	42	127	43	45	42	129	44	45	42	129	46	50	44	131		
		268A	23.0	27.7	55	60	52	138	57	60	54	140	57	60	55	140	59	60	57	142		
		269A	25.5	30.7	59	60	56	141	61	70	58	143	61	70	58	143	63	70	60	145		
		NONE	-	-	13	15	12	61	16	20	16	65	16	65	14	20	14	63	18	20	67	
		118A	17.0	20.4	38	40	35	81	42	45	40	85	44	45	40	40	83	44	45	42	87	
		299A	25.7	25.8	45	45	41	87	49	50	46	91	46	91	46	50	43	89	50	48	93	
		NONE	-	-	14	20	13	76	18	20	17	80	15	80	15	20	15	78	19	25	82	
		118A	17.0	20.4	39	40	37	96	43	45	41	100	41	100	41	45	39	98	45	45	102	
		299A	25.7	25.8	46	50	43	102	50	47	106	48	106	48	50	45	104	51	60	49	108	
575-3-60	HIGH	NONE	-	-	17	20	16	90	20	25	21	94	18	25	18	92	22	25	23	96		
		118A	17.0	20.4	42	45	40	110	44	45	44	114	44	45	42	112	48	50	46	116		
		299A	25.7	25.8	49	50	46	116	53	50	120	50	120	50	60	48	118	54	60	122		

See: "Legend and Notes for Tables 1 and 2" on page 18.

Table 1 - Unit Wire/Fuse or HACR Breaker Sizing Data (cont)

UNIT	IFM TYPE	ELEC. HTR			NO C.O. or UNPWR C.O.																	
		CRHEATER**A00	Nom (kW)	FLA	NO PE.				w/ P.E. (p.wrd fr/unit)				NO PE.				w/ PWR C.O.					
					MCA	FUSE or BRKR	FLA	DISC. SIZE	MCA	FUSE or BRKR	FLA	DISC. SIZE	MCA	FUSE or BRKR	FLA	DISC. SIZE	MCA	FUSE or BRKR	FLA	DISC. SIZE		
50HCQD08	STD	NONE	-	-	39/38	50/50	40/39	208	42/42	50/50	44/44	212	43/43	50/50	45/45	47/46	50/50	45/45	49/49	217		
		117A	7.8/10.4	21.7/25.0	65/69	70/70	65/68	230/233	208	42/42	70/80	234/237	213	70/74	70/80	234/237	213	70/74	70/80	234/237	213	
		110A	12.0/16.0	33.4/38.5	80/86	80/90	78/83	241/247	208	42/42	90/100	82/88	245/251	213	85/91	90/100	83/89	246/252	88/95	90/100	88/93	250/256
		111A	18.6/24.8	51.7/59.7	103/112	110/125	99/108	260/268	208	42/42	110/125	103/112	264/272	213	108/117	110/125	105/113	265/273	111/121	125/125	109/118	269/277
		112A	24.0/32.0	66.7/77.0	122/134	125/150	116/128	275/285	208	42/42	125/150	121/132	279/289	213	126/139	150/150	122/133	280/290	130/143	150/150	126/138	284/294
		112A+117A	31.8/42.4	88.4/102.0	149/165	150/175	141/157	385/412	208	42/42	175/175	146/161	389/416	213	153/170	175/175	147/162	390/417	157/174	175/175	151/166	394/421
	MED	NONE	-	-	40/40	50/50	42/41	229	44/43	50/50	46/46	233	45/44	50/50	47/47	48/48	60/60	47/47	51/51	238		
		117A	7.8/10.4	21.7/25.0	67/71	70/80	66/70	251/254	229	44/43	71/74	255/258	233	72/76	80/80	72/76	256/259	76/79	80/80	76/80	260/263	
		110A	12.0/16.0	33.4/38.5	82/88	90/90	80/86	262/268	229	44/43	84/90	266/272	233	86/93	90/100	85/91	267/273	90/96	90/100	90/95	271/277	
		111A	18.6/24.8	51.7/59.7	104/114	110/125	101/110	281/289	229	44/43	108/118	105/114	285/293	233	109/119	110/125	106/115	286/294	113/123	125/125	111/120	290/298
		112A	24.0/32.0	66.7/77.0	123/136	125/150	118/130	296/306	229	44/43	127/140	123/134	300/310	233	128/141	150/150	124/135	301/311	132/144	150/150	128/140	305/315
		112A+117A	31.8/42.4	88.4/102.0	150/167	150/175	143/159	406/433	229	44/43	154/171	148/163	410/437	233	155/172	175/175	149/164	411/438	159/176	175/200	153/168	415/442
460-3-60	STD	NONE	-	-	18	20	19	104	20	25	21	106	20	25	22	22	25	21	23	108		
		116A	13.9	16.7	39	40	38	121	41	45	40	123	41	45	42	43	45	40	43	125		
		113A	16.5	19.8	43	45	42	124	45	45	45	126	45	45	45	47	47	45	46	128		
		114A	27.8	33.4	60	60	57	137	62	70	59	139	62	70	60	64	70	60	62	141		
		115A	33.0	39.7	68	70	64	144	70	70	66	146	70	70	67	72	80	67	69	148		
		114A+116A	41.7	50.2	81	90	76	204	83	80	79	206	80	84	90	85	81	90	81	208		
	MED	NONE	-	-	19	20	19	104	21	25	21	116	21	25	22	23	25	21	24	118		
		116A	13.9	16.7	40	40	39	131	42	45	41	133	42	45	42	44	45	42	44	135		
		113A	16.5	19.8	44	45	43	134	46	50	45	136	46	50	45	48	50	45	47	138		
		114A	27.8	33.4	61	70	58	147	63	70	63	149	63	70	61	65	70	61	63	151		
		115A	33.0	39.7	69	70	65	154	71	80	68	156	71	80	80	73	80	68	70	158		
		114A+116A	41.7	50.2	82	90	78	214	84	90	80	216	84	90	90	86	80	80	82	218		
575-3-60	STD	NONE	-	-	21	25	22	129	23	25	24	131	23	25	24	25	24	24	133			
		116A	13.9	16.7	42	45	41	146	44	45	148	44	45	44	44	46	45	44	148			
		113A	16.5	19.8	46	45	45	149	48	50	47	151	48	50	47	48	50	47	150			
		114A	27.8	33.4	63	70	60	162	65	70	62	164	65	70	63	67	70	63	166			
		115A	33.0	39.7	71	80	68	169	73	80	70	171	73	80	70	71	80	70	72	173		
		114A+116A	41.7	50.2	84	90	80	229	86	90	82	231	86	90	90	88	90	82	84	233		
	MED	NONE	-	-	13	15	13	77	17	20	18	81	15	20	15	19	20	15	19	83		
		118A	17.0	20.4	39	40	37	97	42	45	41	101	42	45	40	44	45	39	43	103		
		119A	34.0	40.9	64	70	60	118	68	70	65	122	68	70	70	70	70	62	70	124		
		NONE	-	-	14	15	14	81	17	20	18	85	15	20	16	19	20	16	19	87		
		118A	17.0	20.4	39	40	37	101	43	45	42	105	41	45	45	45	45	45	44	107		
		119A	34.0	40.9	65	70	65	122	68	70	65	126	66	70	70	70	70	67	70	128		
HIGH	NONE	-	-	14	20	15	92	18	20	19	96	16	20	17	20	25	17	21	98			
	118A	17.0	20.4	40	40	38	112	44	45	43	116	42	45	45	45	45	44	45	118			
	119A	34.0	40.9	65	70	62	133	69	70	66	137	67	70	80	71	80	68	71	139			

See: "Legend and Notes for Tables 1 and 2." on page 18.

Table 1 - Unit Wire/Fuse or HACR Breaker Sizing Data (cont)

UNIT	NO M, V-PH-HZ	ELEC. HTR				NO C.O. or UNPWR C.O.						w/ PWRD C.O.														
		CRHEATER***A00	Nom (KW)	FLA	FUSE or HACR BRKR	MCA	FLA	DISC. SIZE	MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	MCA	FUSE or HACR BRKR	FLA	DISC. SIZE						
50HCC012		STD	NONE	-	-	47/47	60/60	49/49	51/51	304	289	51/51	60/60	54/53	293	52/52	60/60	55/55	294	56/56	60/60	57/57	70/70	61/61	313	
			288A	7.5/10.0	20.9/24.1	73/77	80/80	73/77	310/313	77/81	325/328	310/313	80/90	60/60	78/81	314/317	78/82	80/90	79/82	315/318	82/86	90/90	84/87	90/90	85/89	334/337
			291A	12.4/16.5	34.4/39.7	90/97	90/100	89/95	323/329	94/101	329/333	323/329	100/110	100/110	93/99	327/333	95/102	100/110	94/100	328/334	99/105	100/110	100/110	101/106	101/106	347/353
			294A	25.2/33.5	69.9/80.6	135/148	150/150	130/142	359/370	139/152	363/374	359/370	150/175	150/175	134/146	363/374	140/153	150/175	150/175	135/147	364/375	143/156	150/175	140/152	140/152	368/379
			288A+294A	32.7/43.5	90.7/104.7	161/178	175/200	154/170	470/498	165/182	474/502	470/498	175/200	175/200	158/174	474/502	166/183	175/200	169/187	159/175	475/503	169/187	175/200	164/179	164/179	479/507
			291A+294A	37.6/50.0	104.3/120.3	178/167	200/175	169/187	498/530	498/530	200/175	200/175	174/192	502/534	183/172	200/200	186/176	175/193	503/535	186/176	200/200	179/197	179/197	507/539		
208/230-3-60		MED	NONE	-	-	49/49	60/60	51/51	304	289	51/51	60/60	54/53	293	52/52	60/60	57/56	294	56/56	60/60	57/57	70/70	61/61	313		
			288A	7.5/10.0	20.9/24.1	75/79	80/80	75/79	325/328	79/83	329/332	310/313	80/90	60/60	79/83	329/332	80/84	80/90	81/84	330/333	84/87	90/90	85/89	90/90	85/89	334/337
			291A	12.4/16.5	34.4/39.7	92/98	100/100	91/97	338/344	96/102	342/348	323/329	100/110	100/110	95/101	342/348	97/103	100/110	96/102	343/349	100/107	100/110	101/106	101/106	347/353	
			294A	25.2/33.5	69.9/80.6	136/149	150/150	131/144	374/385	140/153	378/389	359/370	150/175	150/175	136/148	378/389	141/154	150/175	137/149	379/390	145/158	150/175	141/154	141/154	383/394	
			288A+294A	32.7/43.5	90.7/104.7	162/180	175/200	155/171	485/513	166/183	489/517	470/498	175/200	175/200	160/176	489/517	167/184	175/200	171/188	161/177	490/518	171/188	175/200	165/181	165/181	494/522
			291A+294A	37.6/50.0	104.3/120.3	179/169	200/175	171/189	513/545	513/545	200/175	200/175	175/194	517/549	184/174	200/200	188/178	177/195	518/550	188/178	200/200	181/199	181/199	522/554		
460-3-60		STD	NONE	-	-	24	30	24	138	140	26	30	26	140	26	30	27	140	28	30	27	140	28	142		
			289A	10.0	12.0	39	40	38	150	152	152	40	40	40	152	41	45	41	152	43	45	41	45	154		
			292A	16.5	19.9	48	50	47	158	166	166	166	50	50	49	160	51	60	50	160	52	60	50	60	162	
			295A	33.5	40.3	74	80	71	178	186	186	186	80	80	73	180	76	80	73	180	78	80	73	80	182	
			289A+295A	43.5	52.3	89	90	85	243	91	245	243	100	100	87	245	91	100	87	245	93	100	89	100	247	
			292A+295A	50.0	60.2	84	90	94	258	266	86	90	96	260	86	90	96	260	88	90	96	98	262			
460-3-60		MED	NONE	-	-	24	30	25	146	148	27	30	27	148	27	30	28	148	28	30	28	148	28	150		
			289A	10.0	12.0	39	40	39	158	166	166	166	45	45	41	160	42	45	42	160	43	45	41	45	162	
			292A	16.5	19.9	49	50	48	166	176	176	176	60	60	50	168	51	60	51	168	53	60	51	60	170	
			295A	33.5	40.3	75	80	72	186	186	186	186	80	80	74	188	77	80	74	188	79	80	74	80	182	
			289A+295A	43.5	52.3	90	90	85	251	92	253	253	100	100	88	253	92	100	88	253	94	100	88	100	255	
			292A+295A	50.0	60.2	85	90	95	266	266	86	90	97	268	87	90	97	268	89	90	97	99	270			
50HCC012		HIGH	NONE	-	-	31	40	32	156	158	34	40	34	158	33	40	35	158	35	40	35	158	35	160		
			289A	10.0	12.0	46	50	46	168	176	176	176	50	50	48	170	48	50	49	170	50	50	49	50	172	
			292A	16.5	19.9	56	60	55	176	186	186	186	60	60	57	178	58	60	58	178	60	60	58	60	180	
			295A	33.5	40.3	81	90	79	196	196	196	196	90	90	81	198	84	90	81	198	85	90	81	90	200	
			289A+295A	43.5	52.3	96	100	92	261	98	263	263	100	100	94	263	99	100	95	263	100	100	97	100	265	
			292A+295A	50.0	60.2	91	100	101	276	276	93	100	104	278	93	100	104	278	95	100	104	106	280			

See: "Legend and Notes for Tables 1 and 2" on page 18.

Table 1 - Unit Wire/Fuse or HACR Breaker Sizing Data (cont)

UNIT	NO M, V-PH-HZ	IFM TYPE	ELEC. HTR			NO C.O. or UNPWR C.O.						w/ PWRD C.O.								
			ORHEATER***A00	Nom (kW)	FLA	NO PE.		w/ P.E. (pwrdr fr/unit)		NO PE.		w/ P.E. (pwrdr fr/unit)		NO PE.		w/ P.E. (pwrdr fr/unit)				
					MCA	FUSE or HACR BRKR	FLA	LRA	DISC. SIZE	MCA	FUSE or HACR BRKR	FLA	LRA	DISC. SIZE	MCA	FUSE or HACR BRKR	FLA	LRA	DISC. SIZE	
					18	20	18	95	21	25	22	22	99	19	19	25	20	97	23	25
		NONE		-	30	30	29	105	33	35	33	109	31	31	35	31	107	35	35	35
		290A	10.0	9.6	37	40	36	111	41	45	41	115	39	40	45	38	113	43	45	45
		293A	16.5	15.9	58	60	55	127	62	70	59	131	59	60	70	57	129	63	70	70
		296A	33.5	32.2	70	70	66	179	74	80	70	183	71	80	80	68	181	75	80	80
		290A+296A	43.5	41.8	66	70	73	191	69	80	78	195	67	70	80	75	193	71	80	80
		293A+296A	50.0	48.1	18	20	19	106	22	25	23	110	20	25	21	108	24	25	25	25
		NONE		-	30	30	30	116	34	35	34	120	32	35	32	118	36	40	40	40
		290A	10.0	9.6	38	40	37	122	42	45	42	126	40	40	45	39	124	44	45	45
		293A	16.5	15.9	59	60	56	138	62	70	60	142	60	60	70	58	140	64	70	70
		296A	33.5	32.2	71	80	67	190	74	80	71	194	72	80	80	69	192	76	80	80
		290A+296A	43.5	41.8	66	70	74	202	70	80	79	206	68	70	80	76	204	72	80	80
		293A+296A	50.0	48.1	25	30	26	118	29	35	30	122	27	30	28	120	31	32	35	35
		NONE		-	37	40	37	128	41	45	41	132	39	45	39	130	43	45	45	45
		290A	10.0	9.6	45	45	44	134	49	50	49	138	47	50	46	136	51	60	60	60
		293A	16.5	15.9	66	70	63	150	69	70	67	154	67	70	65	152	71	80	80	80
		296A	33.5	32.2	78	80	74	202	81	90	78	206	79	80	76	204	83	90	90	90
		290A+296A	43.5	41.8	73	80	81	214	77	80	86	218	75	80	83	216	79	88	80	80
		293A+296A	50.0	48.1	25	30	26	118	29	35	30	122	27	30	28	120	31	32	35	35

See: "Legend and Notes for Tables 1 and 2" on page 18.

Table 2 - Unit Wire/Fuse or HACR Breaker Sizing Data with Factory Installed 2 Speed Indoor Fan Option (cont)

UNIT	IFM TYPE	ELEC. HTR				NO C.O. or UNPWR C.O.															
		CRHEATER**A00	Nom (kW)	FLA	NO PE.				w/ P.E. (pwrd fr/unit)				NO PE.				w/ PWR C.O.				
					MCA	FUSE or BRKR	FLA	DISC. SIZE	LRA	MCA	FUSE or BRKR	FLA	DISC. SIZE	LRA	MCA	FUSE or BRKR	FLA	DISC. SIZE	LRA	MCA	FUSE or BRKR
50HQD09	STD	NONE	-	-	47/47	60/60	60/60	51/51	233	54/53	237	52/52	60/60	60/60	55/55	238	56/56	60/60	60/60	59/59	242
		117A	7.8/10.4	21.7/25.0	75/78	80/80	80/80	78/82	255/258	79/82	259/262	79/83	80/90	80/90	80/83	260/263	83/87	90/90	90/90	84/88	264/267
		110A	12.0/16.0	33.4/38.5	89/95	100/100	100/100	93/99	266/272	92/98	270/276	94/100	100/100	100/100	93/99	271/277	98/104	100/110	100/110	98/103	275/281
		111A	18.6/24.8	51.7/59.7	112/122	125/125	125/150	116/126	285/293	113/122	289/297	117/127	125/150	125/150	114/123	290/298	121/130	125/150	125/150	119/128	294/302
		112A	24.0/32.0	66.7/77.0	131/143	150/150	150/150	135/147	300/310	131/142	304/314	136/148	150/150	150/150	132/143	305/315	139/152	150/175	150/175	136/148	309/319
		112A+117A	31.8/42.4	88.4/102.0	158/175	175/175	175/200	162/178	410/437	155/171	414/441	163/179	175/200	175/200	157/172	415/442	167/183	175/200	175/200	161/176	419/446
	MED	NONE	-	-	49/48	60/60	60/60	53/52	259	56/55	263	54/53	60/60	60/60	57/56	264	58/57	70/70	70/70	61/60	268
		117A	7.8/10.4	21.7/25.0	76/79	80/80	80/80	80/83	281/284	76/79	285/288	81/84	90/90	90/90	82/85	286/289	85/88	90/90	90/90	86/89	290/293
		110A	12.0/16.0	33.4/38.5	91/96	100/100	100/100	95/100	292/298	94/99	296/302	96/101	100/110	100/110	95/100	297/303	99/105	100/110	100/110	99/104	301/307
		111A	18.6/24.8	51.7/59.7	114/123	125/125	125/150	117/127	311/319	115/123	315/323	118/128	125/150	125/150	116/124	316/324	122/131	125/150	125/150	121/129	320/328
		112A	24.0/32.0	66.7/77.0	132/144	150/150	150/150	132/143	326/336	132/143	330/340	137/149	150/150	150/150	133/144	331/341	141/153	150/175	150/175	138/149	335/345
		112A+117A	31.8/42.4	88.4/102.0	159/176	175/200	175/200	163/178	436/463	157/172	440/467	164/180	175/200	175/200	158/173	441/468	168/184	175/200	175/200	163/177	445/472
HIGH	NONE	-	-	51/50	60/60	60/60	55/54	283	58/57	287	56/55	60/60	60/60	59/58	288	60/59	70/70	70/70	64/62	292	
	117A	7.8/10.4	21.7/25.0	78/81	80/90	80/90	82/85	305/308	79/81	309/312	83/86	90/90	90/90	84/87	310/313	87/90	90/90	90/90	89/91	314/317	
	110A	12.0/16.0	33.4/38.5	93/98	100/100	100/100	97/102	316/322	96/101	320/326	98/103	100/110	100/110	96/102	321/327	102/107	110/110	110/110	102/107	325/331	
	111A	18.6/24.8	51.7/59.7	116/125	125/125	125/150	120/129	335/343	118/126	339/347	121/130	125/150	125/150	119/127	340/348	124/133	125/150	125/150	123/131	344/352	
	112A	24.0/32.0	66.7/77.0	135/146	150/150	150/150	135/145	350/360	135/145	354/364	139/151	150/175	150/175	136/147	355/365	143/155	150/175	150/175	140/151	359/369	
	112A+117A	31.8/42.4	88.4/102.0	162/178	175/200	175/200	165/181	460/487	160/174	464/491	166/182	175/200	175/200	161/175	465/492	170/186	175/200	175/200	165/180	469/496	
460-3-60	STD	NONE	-	-	22	25	24	23	117	25	119	25	30	30	26	119	26	30	28	121	
		116A	13.9	16.7	43	45	45	45	134	44	136	45	45	45	45	136	47	50	47	138	
		113A	16.5	19.8	47	50	50	49	137	49	139	49	50	50	48	139	51	60	50	141	
		114A	27.8	33.4	64	70	70	66	150	62	152	66	70	70	64	152	68	70	66	154	
		115A	33.0	39.7	72	80	80	74	157	69	159	74	80	80	71	159	76	80	73	161	
		114A+116A	41.7	50.2	85	90	90	87	171	81	173	87	90	90	83	173	89	90	85	221	
	MED	NONE	-	-	22	25	24	23	130	25	132	25	30	30	26	132	26	30	28	134	
		116A	13.9	16.7	43	45	45	45	147	44	149	45	45	45	45	149	47	50	47	151	
		113A	16.5	19.8	47	50	50	49	150	48	152	49	50	50	48	152	51	60	50	154	
		114A	27.8	33.4	64	70	70	66	163	64	165	66	70	70	64	165	68	70	66	167	
		115A	33.0	39.7	72	80	80	74	170	71	172	74	80	80	71	172	76	80	73	174	
		114A+116A	41.7	50.2	85	90	90	87	183	81	185	87	90	90	83	185	89	90	85	234	
HIGH	NONE	-	-	23	25	24	23	142	26	144	26	30	30	27	144	27	30	29	146		
	116A	13.9	16.7	44	45	45	46	159	46	161	46	50	50	46	161	48	50	48	163		
	113A	16.5	19.8	48	50	50	49	162	49	164	50	50	50	48	164	51	60	50	166		
	114A	27.8	33.4	65	70	70	67	175	65	177	67	70	70	65	177	69	70	67	179		
	115A	33.0	39.7	73	80	80	75	182	70	184	75	80	80	73	184	77	80	75	186		
	114A+116A	41.7	50.2	86	90	90	88	242	84	244	88	90	90	85	244	90	90	87	246		
575-3-60	STD	NONE	-	-	18	20	19	99	23	103	21	25	25	22	101	24	25	25	25	105	
	116A	17.0	20.4	44	45	45	48	119	47	123	45	45	45	44	121	49	50	49	125		
	119A	34.0	40.9	69	70	70	73	140	70	144	71	80	80	68	142	75	80	72	146		
MED	NONE	-	-	19	25	20	108	24	112	21	25	25	22	110	25	30	30	26	114		
118A	17.0	20.4	45	45	45	49	128	48	132	46	50	50	45	130	50	50	50	50	134		
119A	34.0	40.9	70	70	70	74	149	71	153	72	80	80	69	151	76	80	80	73	155		
HIGH	NONE	-	-	19	25	20	108	24	112	21	25	25	22	110	25	30	30	26	114		
118A	17.0	20.4	45	45	45	49	128	48	132	46	50	50	45	130	50	50	50	50	134		
119A	34.0	40.9	70	70	70	74	149	71	153	72	80	80	69	151	76	80	80	73	155		

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See: "Legend and Notes for Tables 1 and 2" on page 18.

Table 2 - Unit Wire/Fuse or HACR Breaker Sizing Data with Factory Installed 2 Speed Indoor Fan Option (cont)

UNIT	NO M-V-PH-HZ	ELEC. HTR				NO C.O. or UNPWR C.O.												w/ PWRD C.O.			
		IFM TYPE	CRHEATER**A00	Nom (kW)	FLA	NO P.E.				w/ P.E. (pwrd fr/unit)				NO P.E.				w/ P.E. (pwrd fr/unit)			
						MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	MCA	FUSE or HACR BRKR	FLA	DISC. SIZE
50HCCD12	208/230-3-60	STD	NONE	-	-	48/47	60/60	50/49	259	51/51	60/60	54/64	263	52/52	60/60	55/55	264	56/56	60/60	59/59	268
			288A	7.5/10.0	20.9/24.1	74/77	80/80	74/77	280/283	77/81	80/90	78/81	284/287	79/82	80/90	79/82	285/288	82/86	90/90	83/87	289/292
			291A	12.4/16.5	34.4/39.7	91/97	100/100	89/95	293/299	94/101	100/110	93/99	297/303	95/100	100/110	95/100	298/304	98/105	100/110	99/105	302/308
			294A	25.2/33.5	69.9/80.6	135/148	150/150	130/142	329/340	139/152	150/175	134/146	333/344	135/147	150/175	135/147	334/345	144/157	150/175	140/152	338/349
			288A+294A	32.7/43.5	90.7/104.7	161/178	175/200	154/170	440/468	165/182	175/200	158/174	444/472	166/183	175/200	159/175	445/473	170/187	175/200	164/180	449/477
			291A+294A	37.6/50.0	104.3/120.3	178/168	200/175	170/188	469/500	182/171	200/175	174/192	472/504	183/172	200/200	175/193	473/505	187/176	200/200	179/197	477/509
		MED	NONE	-	-	49/48	60/60	51/50	285	53/52	60/60	56/55	289	54/53	60/60	57/56	290	58/57	70/70	61/60	294
			288A	7.5/10.0	20.9/24.1	75/78	80/80	75/78	306/309	79/82	80/90	80/82	310/313	80/83	80/90	81/84	311/314	84/87	90/90	85/88	315/318
			291A	12.4/16.5	34.4/39.7	92/98	100/100	91/96	319/325	96/102	100/110	95/100	323/329	97/103	100/110	96/102	324/330	101/106	100/110	101/106	328/334
			294A	25.2/33.5	69.9/80.6	136/149	150/150	132/143	355/366	140/153	150/175	136/147	359/370	141/154	150/175	137/149	360/371	145/158	150/175	142/153	364/375
			288A+294A	32.7/43.5	90.7/104.7	162/179	175/200	156/171	466/494	166/183	175/200	160/175	470/498	167/184	175/200	161/176	471/499	171/188	175/200	165/181	475/503
			291A+294A	37.6/50.0	104.3/120.3	179/169	200/175	171/189	494/526	183/172	200/200	176/193	498/530	184/173	200/200	177/194	499/531	188/177	200/200	181/199	503/535
HIGH	NONE	-	-	62	80	65	324	66	80	68	328	67	80	70	329	71	80	75	333		
	288A	7.5/10.0	20.9/24.1	88/92	100/100	89/93	345/348	92/96	100/100	93/97	349/352	93/97	100/100	94/98	350/353	97/101	100/110	99/102	354/357		
	291A	12.4/16.5	34.4/39.7	105/112	110/125	104/111	358/364	109/115	110/125	109/115	362/368	110/116	110/125	110/116	363/369	114/120	125/125	114/120	367/373		
	294A	25.2/33.5	69.9/80.6	149/163	150/175	145/158	394/405	153/167	175/175	150/162	398/409	154/168	175/175	151/163	399/410	158/171	175/175	155/167	403/414		
	288A+294A	32.7/43.5	90.7/104.7	175/193	175/200	169/185	505/533	179/197	200/200	174/190	509/537	180/198	200/200	175/191	510/538	184/201	200/225	179/195	514/542		
	291A+294A	37.6/50.0	104.3/120.3	192/182	200/200	185/203	533/565	196/186	200/200	189/208	537/569	197/187	200/200	190/209	538/570	201/191	225/200	195/213	542/574		
STD	NONE	-	-	24	30	25	124	26	30	27	126	26	30	27	126	28	30	29	128		
	288A	10.0	12.0	39	40	39	136	41	45	41	138	41	45	41	138	43	45	43	140		
	292A	16.5	19.9	49	50	48	144	51	60	50	146	51	60	50	146	53	60	52	148		
	295A	33.5	40.3	74	80	71	164	76	80	73	166	77	80	74	166	78	80	76	168		
	289A+295A	43.5	52.3	89	90	85	229	91	100	87	231	92	100	88	231	93	100	90	233		
	292A+295A	50.0	60.2	84	90	94	244	86	90	96	246	86	90	97	246	88	90	99	248		
MED	NONE	-	-	24	30	25	137	26	30	27	139	26	30	27	139	28	30	29	141		
	288A	10.0	12.0	39	40	39	149	41	45	41	151	41	45	41	151	43	45	43	153		
	292A	16.5	19.9	49	50	48	157	51	60	50	159	51	60	50	159	53	60	52	161		
	295A	33.5	40.3	74	80	71	177	76	80	73	179	77	80	74	179	78	80	76	181		
	289A+295A	43.5	52.3	89	90	85	242	91	100	87	244	92	100	88	244	93	100	90	246		
	292A+295A	50.0	60.2	84	90	94	257	86	90	96	259	86	90	97	259	88	90	99	261		
HIGH	NONE	-	-	31	40	32	156	33	40	34	158	33	40	35	158	35	40	37	160		
	288A	10.0	12.0	46	50	46	168	48	50	48	170	48	50	49	170	50	50	51	172		
	292A	16.5	19.9	56	60	55	176	58	60	57	178	58	60	58	178	60	60	60	180		
	295A	33.5	40.3	81	90	79	196	83	90	81	198	84	90	81	198	85	90	83	200		
	289A+295A	43.5	52.3	96	100	92	261	98	100	94	263	99	100	95	263	100	100	97	265		
	292A+295A	50.0	60.2	91	100	101	276	93	100	104	278	93	100	104	278	95	100	106	280		

See: "Legend and Notes for Tables 1 and 2." on page 18.

Table 2 - Unit Wire/Fuse or HACR Breaker Sizing Data with Factory Installed 2 Speed Indoor Fan Option (cont)

UNIT	NO M, V-P, HZ	IFM TYPE	ELEC. HTR			NO C.O. or UNPWR C.O.															
			CRHEATER***A00	Nom (kW)	FLA	NO PE.				w/ P.E. (pwrd fr/unit)				NO PE.				w/ PWR C.O.			
						MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	LRA	MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	LRA	MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	LRA	
50HCD12	575-3-60	STD	NONE	-	-	25	20	97	23	25	24	101	21	25	22	99	25	30	26	103	
			290A	10.0	9.6	35	31	107	35	35	35	111	33	35	33	109	37	40	37	113	
			293A	16.5	15.9	40	38	113	43	45	42	117	41	45	40	115	44	45	44	119	
			296A	33.5	32.2	60	57	129	63	70	61	133	61	70	59	131	65	70	63	135	
			290A+296A	43.5	41.8	80	68	181	75	80	72	185	73	80	70	183	77	80	74	187	
			293A+296A	50.0	48.1	70	75	193	71	80	79	197	69	70	77	195	73	80	81	199	
50HCD12	575-3-60	MED	NONE	-	-	25	21	106	24	25	25	110	22	25	23	108	22	30	27	112	
			290A	10.0	9.6	35	32	116	36	40	36	120	34	35	34	118	38	40	38	122	
			293A	16.5	15.9	40	39	122	44	45	43	126	42	45	41	124	45	45	45	128	
			296A	33.5	32.2	60	58	138	64	70	62	142	62	70	60	140	66	70	64	144	
			290A+296A	43.5	41.8	80	69	190	76	80	73	194	74	80	71	192	78	80	75	196	
			293A+296A	50.0	48.1	70	76	202	72	80	81	206	70	80	78	204	74	80	82	208	
50HCD12	575-3-60	HIGH	NONE	-	-	30	26	118	29	35	30	122	27	30	28	120	27	35	32	124	
			290A	10.0	9.6	40	37	128	41	45	41	132	39	45	39	130	43	45	43	134	
			293A	16.5	15.9	45	44	134	49	50	49	138	47	50	46	136	51	60	51	140	
			296A	33.5	32.2	70	63	150	69	70	67	154	67	70	65	152	71	80	69	156	
			290A+296A	43.5	41.8	80	74	202	81	90	78	206	79	80	76	204	83	90	80	208	
			293A+296A	50.0	48.1	73	81	214	77	80	86	218	75	80	83	216	79	90	88	220	

See: "Legend and Notes for Tables 1 and 2" on page 18.

Legend and Notes for Tables 1 and 2

LEGEND:

BRKR	-	Circuit breaker
CO	-	Convenience outlet
DISC	-	Disconnect
FLA	-	Full load amps
IFM	-	Indoor fan motor
LRA	-	Locked rotor amps
MCA	-	Minimum circuit amps
PE	-	Power exhaust
PWRD CO	-	Powered convenient outlet
UNPWR CO	-	Unpowered convenient outlet



NOTES:

- In compliance with NEC requirements for multimotor and combination load equipment (refer to NEC Articles 430 and 440), the overcurrent protective device for the unit shall be fuse or HACR breaker. Canadian units may be fuse or circuit breaker.

2. Unbalanced 3-Phase Supply Voltage

Never operate a motor where a phase imbalance in supply voltage is greater than 2%. Use the following formula to determine the percentage of voltage imbalance.

$$\% \text{ Voltage Imbalance} = 100 \times \frac{\text{max voltage deviation from average voltage}}{\text{average voltage}}$$

Example: Supply voltage is 230-3-60



AB = 224 v
BC = 231 v
AC = 226 v

$$\begin{aligned} \text{Average Voltage} &= \frac{(224 + 231 + 226)}{3} = \frac{681}{3} \\ &= 227 \end{aligned}$$

Determine maximum deviation from average voltage.

$$(AB) 227 - 224 = 3 \text{ v}$$

$$(BC) 231 - 227 = 4 \text{ v}$$

$$(AC) 227 - 226 = 1 \text{ v}$$

Maximum deviation is 4 v.

Determine percent of voltage imbalance.

$$\begin{aligned} \% \text{ Voltage Imbalance} &= 100 \times \frac{4}{227} \\ &= 1.76\% \end{aligned}$$

This amount of phase imbalance is satisfactory as it is below the maximum allowable 2%.

IMPORTANT: If the supply voltage phase imbalance is more than 2%, contact your local electric utility company immediately.

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