

**50TCQ 3 to 12.5 Nominal Tons
Single Package Rooftop
Heat Pump
with Puron® (R-410A) Refrigerant
Sizes: 04 – 14**



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 50TCQ size 04 to 14 units manufactured on or after July 30, 2012. To confirm the date of manufacture of a 50TCQ 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)	Sequence number
Year of manufacture ("12" = 2012)	Manufacturing location

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	T	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
14 - 12.5 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

C12567

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 50TCQ size 04 to 14 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.

Nameplate Location

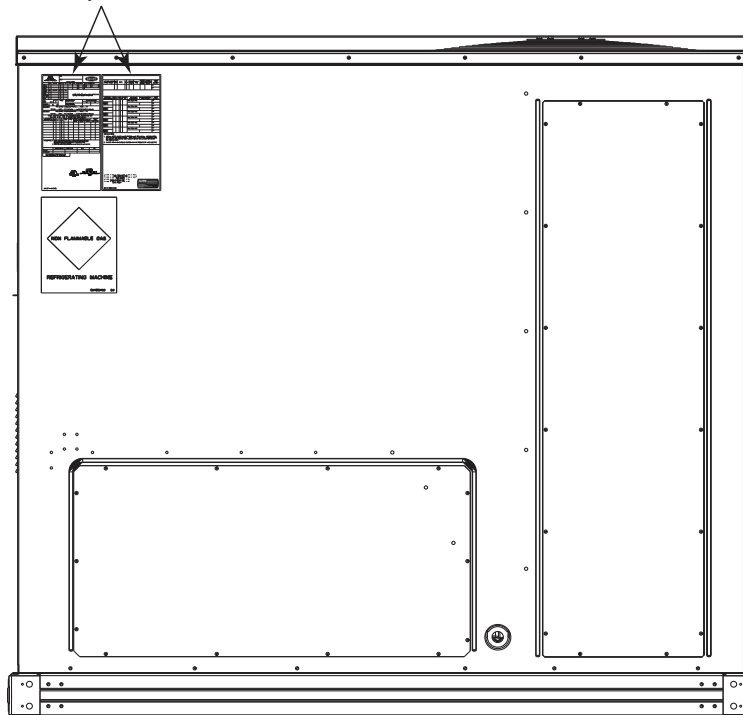


Fig. 1 - Location of Unit Nameplate

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.										w/ PWRD C.O.										
		CRHEATER***A00	Nom (kW)	FLA	MCA	NO RE.			w/ P.E. (pwrdr fr/unit)			NO PE.			w/ P.E. (pwrdr fr/unit)			NO PE.			w/ P.E. (pwrdr fr/unit)					
						FUSE or BRKR	FLA	LRA	MCA	FUSE or BRKR	FLA	LRA	MCA	FUSE or BRKR	FLA	LRA	MCA	FUSE or BRKR	FLA	LRA	MCA	FUSE or BRKR	FLA	LRA	MCA	FUSE or BRKR
208/230-1-60	DD-STD	NONE	-	-	31	45	30	121	32	50	36	123	36	50	36	126	38	50	38	128	38	128	38	50	38	128
		101A	3.3/4.4	15.9/18.3	51/54	60/60	48/51	137/139	51/53	60/60	56/59	139/141	54/57	60/60	56/59	142/144	58/61	60/70	58/61	144/146	58/61	60/70	56/59	60/70	56/59	144/146
		102A	4.9/6.5	23.5/27.1	61/65	70/70	57/61	145/148	59/63	70/70	62/67	147/150	63/67	70/80	62/67	150/153	67/72	70/80	67/72	152/155	67/72	70/80	65/69	70/80	65/69	152/155
		103B	6.5/8.7	31.4/36.3	70/77	70/80	66/72	152/157	68/74	80/80	72/78	154/159	72/77	80/90	72/78	157/162	77/83	80/90	77/83	159/164	77/83	80/90	74/80	80/90	74/80	159/164
		104B	7.9/10.5	37.9/43.8	79/86	80/90	74/81	159/165	76/83	80/90	80/88	161/167	79/86	80/90	80/88	164/170	85/93	90/100	85/93	166/172	85/93	90/100	81/88	90/100	81/88	166/172
208/230-3-60	DD-STD	102A+102A	9.8/13.0	46.9/54.2	90/99	90/100	84/92	215/229	86/95	100/110	95/104	217/231	90/98	100/110	95/104	220/234	96/106	100/110	92/100	222/236	96/106	100/110	92/100	100/110	92/100	222/236
		NONE	-	-	25	30	25	97	27	30	27	99	30	40	30	102	32	40	32	104	32	40	32	40	32	104
		101A	3.3/4.4	9.2/10.6	37/39	45/45	35/37	106/108	37/39	45/50	39/40	108/110	42/43	50/50	42/43	111/113	43/45	50/50	43/45	113/115	43/45	50/50	43/45	50/50	43/45	113/115
		102A	4.9/6.5	13.6/15.6	42/45	50/50	40/43	111/113	43/45	50/50	44/47	113/115	47/50	50/50	47/50	116/118	49/51	50/50	48/50	118/120	49/51	50/60	48/50	50/60	48/50	118/120
		103B	6.5/8.7	18.1/20.9	48/51	50/60	46/49	115/118	48/51	50/60	50/53	117/120	53/56	60/60	53/56	120/123	55/58	60/60	53/56	122/125	55/58	60/60	53/56	60/60	53/56	122/125
50TCQ*04	208/230-3-60	104B	7.9/10.5	21.9/25.3	53/57	60/60	50/54	119/122	55/59	60/60	57/62	121/124	57/62	60/70	57/62	124/127	59/64	60/70	58/62	126/129	59/64	60/70	58/62	60/70	58/62	126/129
		105A	12.0/16.0	33.4/38.5	67/73	70/80	63/69	130/136	65/71	70/80	69/75	132/138	72/78	80/80	72/78	135/141	74/80	80/80	71/77	137/143	74/80	80/80	71/77	80/80	71/77	137/143
		NONE	-	-	29/23	30/30	22/22	126	24/24	30/30	25/25	128	28/28	40/40	28/27	131	30/29	40/40	30/30	133	30/29	40/40	30/30	40/40	30/30	133
		101A	3.3/4.4	9.2/10.6	35/36	45/45	33/34	135/137	35/36	45/45	36/38	137/139	39/41	45/50	39/41	140/142	41/43	45/50	40/42	142/144	41/43	45/50	40/42	45/50	40/42	142/144
		102A	4.9/6.5	13.6/15.6	40/42	45/50	38/40	140/142	40/42	50/50	42/44	142/144	45/47	50/50	45/47	145/147	47/49	50/50	46/47	147/149	47/49	50/50	46/47	50/50	46/47	147/149
HIGH	208/230-3-60	103B	6.5/8.7	18.1/20.9	46/49	50/50	43/46	144/147	45/48	50/60	48/51	146/149	50/54	50/60	49/51	149/152	52/56	60/60	51/54	151/154	52/56	60/60	51/54	60/60	51/54	151/154
		104B	7.9/10.5	21.9/25.3	50/54	50/60	47/51	148/151	50/53	60/60	52/56	150/153	55/59	60/60	55/59	153/156	57/61	60/70	55/59	155/158	57/61	60/70	55/59	60/70	55/59	155/158
		105A	12.0/16.0	33.4/38.5	65/71	70/80	61/66	159/165	63/68	70/80	67/73	161/167	70/76	80/80	70/76	164/170	72/78	80/80	68/74	166/172	72/78	80/80	68/74	80/80	68/74	166/172
		NONE	-	-	25/25	30/30	24/24	147	26/26	30/30	27/26	149	30/29	40/40	30/29	152	31/31	40/40	32/32	154	31/31	40/40	32/32	40/40	32/32	154
		101A	3.3/4.4	9.2/10.6	36/38	45/45	35/36	156/158	37/38	45/45	38/40	158/160	41/43	50/50	41/43	161/163	43/45	50/50	42/44	163/165	43/45	50/50	42/44	50/50	42/44	163/165
HIGH	208/230-3-60	102A	4.9/6.5	13.6/15.6	42/44	50/50	40/42	161/163	42/44	50/50	44/46	163/165	47/49	50/50	45/47	166/168	48/51	50/60	47/50	168/170	48/51	50/60	47/50	50/60	47/50	168/170
		103B	6.5/8.7	18.1/20.9	47/51	50/60	45/48	165/168	49/53	50/60	49/53	167/170	52/55	60/60	50/53	170/173	54/57	60/60	53/58	172/175	54/57	60/60	53/58	60/60	53/58	172/175
		104B	7.9/10.5	21.9/25.3	52/56	60/60	49/53	169/172	54/58	60/60	54/58	171/174	57/61	60/70	57/61	174/177	59/63	60/70	57/61	176/179	59/63	60/70	57/61	60/70	57/61	176/179
		105A	12.0/16.0	33.4/38.5	67/73	70/80	63/68	180/186	65/70	70/80	68/75	182/188	71/77	80/80	71/77	185/191	73/79	80/80	70/76	187/193	73/79	80/80	70/76	80/80	70/76	187/193
		NONE	-	-	25/25	30/30	24/24	147	26/26	30/30	27/26	149	30/29	40/40	30/29	152	31/31	40/40	32/32	154	31/31	40/40	32/32	40/40	32/32	154

See: "Legend and Notes for Tables 1 and 2" on page 21.

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.											
		IFM TYPE	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	MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	LRA		
50TCQ*04	DD-STD	NONE	-	-	-	12	15	12	49	13	15	13	50	15	20	15	20	15	51	16	20	16	52	16	20	16	52
		106A	6.0	7.2	21	20	20	56	22	25	22	25	57	25	25	23	25	25	58	25	25	25	59	25	25	24	59
		107A	8.8	10.6	26	24	30	60	25	30	25	30	61	30	30	27	30	30	62	29	30	29	63	30	30	28	63
		108A	11.5	13.8	30	28	30	63	29	35	29	35	64	35	35	30	35	35	65	33	35	33	66	35	35	32	66
		109A	14.0	16.8	33	31	35	66	33	35	33	35	67	36	40	34	40	34	68	37	40	37	69	40	40	35	69
	MED	NONE	-	-	11	10	10	63	12	15	12	15	64	13	15	13	15	13	65	14	20	14	66	14	20	14	66
		106A	6.0	7.2	20	19	20	70	20	21	20	21	71	22	25	21	25	21	72	23	25	23	73	25	25	22	73
		107A	8.8	10.6	24	23	25	74	24	25	24	25	75	26	30	25	30	25	76	27	30	27	77	30	30	26	77
		108A	11.5	13.8	28	26	30	77	27	29	27	30	78	30	30	29	30	29	79	31	35	31	80	35	35	30	80
		109A	14.0	16.8	32	30	35	80	31	33	31	35	81	34	35	32	35	32	82	35	35	35	83	35	35	33	83
HIGH	NONE	-	-	12	11	11	73	13	15	13	15	74	14	20	14	20	14	75	15	20	15	76	20	20	15	76	
	106A	6.0	7.2	21	20	20	80	21	25	21	25	81	23	25	22	25	22	82	24	25	24	83	25	25	23	83	
	107A	8.8	10.6	25	24	25	84	25	30	25	30	85	27	30	26	30	26	86	28	30	28	87	30	30	27	87	
	108A	11.5	13.8	29	27	30	87	28	30	28	30	88	31	35	30	35	30	89	32	35	32	90	35	35	31	90	
	109A	14.0	16.8	33	31	35	90	32	35	32	35	91	35	35	33	35	33	92	36	40	36	93	40	40	34	93	
575-3-60	DD-STD	-	-	10	10	10	35	12	15	12	15	37	12	15	12	15	12	37	14	15	14	39	15	15	14	39	
	MED	-	-	8	7	7	38	9	15	9	15	40	9	15	9	15	9	40	11	15	11	42	15	15	11	42	
	HIGH	-	-	8	8	8	42	10	15	10	15	44	10	15	10	15	10	44	12	15	12	46	15	15	12	46	

See: "Legend and Notes for Tables 1 and 2" on page 21.

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. (pwrdr fr/unit)			NO PE.			w/ P.E. (pwrdr fr/unit)			NO PE.			w/ P.E. (pwrdr fr/unit)										
						MCA	FUSE or HACR BRKR	DISC. SIZE FLA LRA	MCA	FUSE or HACR BRKR	DISC. SIZE FLA LRA	MCA	FUSE or HACR BRKR	DISC. SIZE FLA LRA	MCA	FUSE or HACR BRKR	DISC. SIZE FLA LRA	MCA	FUSE or HACR BRKR	DISC. SIZE FLA LRA											
50TCQ*05	208/230-1-60	DD-STD	NONE	-	-	37	50	35	128	39	50	37	130	41	60	41	133	43	60	43	135	60	43	135	60	43	135				
			101A	3.3/4.4	15.9/18.3	56/59	60/60	54/56	144/146	58/61	60/70	56/59	148/148	59/62	70/80	59/62	149/151	63/66	80/80	61/64	80/80	61/64	151/153	80/80	61/64	151/153	80/80	61/64	151/153		
			103B	6.5/8.7	31.4/36.3	76/82	80/90	71/77	159/164	78/84	80/90	74/79	161/166	77/83	90/90	77/83	164/168	83/89	90/100	79/85	90/100	79/85	168/171	90/100	79/85	168/171	90/100	79/85	168/171		
			102A+102A	9.8/13.0	46.9/54.2	95/104	100/110	89/98	222/236	97/106	100/110	91/100	224/238	95/103	100/110	95/103	227/241	102/111	110/125	97/105	110/125	97/105	229/243	110/125	97/105	229/243	110/125	97/105	229/243		
			103B+103B	13.1/17.4	62.8/72.5	115/127	125/150	108/119	254/273	117/129	125/150	110/121	256/275	113/124	125/150	113/124	259/278	122/134	125/150	115/126	125/150	115/126	261/280	125/150	115/126	261/280	125/150	115/126	261/280		
			104B+104B	15.8/21.0	75.8/87.5	131/146	150/150	122/136	280/303	133/148	150/150	125/138	282/305	128/141	150/175	128/141	285/308	138/153	150/175	130/144	150/175	130/144	287/310	150/175	130/144	287/310	150/175	130/144	287/310		
			NONE	-	-	26	30	26	94	28	40	28	96	31	40	32	40	99	33	45	34	45	101	40	32	40	34	45	34	101	
			102A	4.9/6.5	13.6/15.6	43/46	50/50	42/44	108/110	45/48	50/50	44/46	110/112	48/51	50/60	47/49	50/60	113/115	50/53	60/60	49/52	60/60	49/52	115/117	50/60	47/49	50/60	49/52	60/60	49/52	115/117
			103B	6.5/8.7	18.1/20.9	49/53	50/60	47/50	112/115	51/55	60/60	49/52	114/117	54/57	60/60	52/56	60/60	117/120	56/59	60/60	55/58	60/60	55/58	119/122	60/60	52/56	60/60	55/58	60/60	55/58	119/122
			105A	12.0/16.0	33.4/38.5	66/75	70/80	64/70	127/133	70/77	70/80	67/72	129/135	73/79	80/80	70/76	80/80	132/138	75/81	80/90	72/78	80/90	72/78	134/140	80/90	70/76	80/90	72/78	80/90	72/78	134/140
104B+104B	15.8/21.0	43.8/50.5	81/90	90/90	76/84	182/195	83/92	90/100	79/86	184/197	86/94	90/100	82/90	90/100	187/200	88/96	90/100	84/92	90/100	84/92	189/202	90/100	82/90	90/100	84/92	90/100	84/92	189/202			
208/230-3-60	MED	NONE	-	-	24/24	30/30	23/23	123	26/26	30/30	26/25	125	29/29	40/40	29/29	128	31/31	40/40	31/31	130	40/40	29/29	128	40/40	31/31	130	40/40	31/31	130		
		102A	4.9/6.5	13.6/15.6	41/43	50/50	39/41	137/139	43/45	50/50	41/43	139/141	46/48	50/50	45/47	142/144	48/50	50/50	47/49	50/50	47/49	144/146	50/50	45/47	50/50	47/49	50/50	47/49	144/146		
		103B	6.5/8.7	18.1/20.9	47/50	50/50	44/47	141/144	49/52	50/60	46/49	143/146	52/55	60/60	50/53	146/149	54/57	60/60	52/55	60/60	52/55	148/151	60/60	50/53	60/60	52/55	60/60	52/55	148/151		
		105A	12.0/16.0	33.4/38.5	66/72	70/80	62/67	156/162	68/74	70/80	64/70	158/164	71/77	80/80	67/73	161/167	73/79	80/80	70/75	80/80	70/75	163/169	80/80	67/73	80/80	70/75	80/80	70/75	163/169		
		104B+104B	15.8/21.0	43.8/50.5	79/87	80/90	74/81	211/224	81/89	90/90	76/83	213/226	84/92	90/100	79/87	216/229	86/94	90/100	82/89	90/100	82/89	218/231	90/100	79/87	90/100	82/89	90/100	82/89	218/231		
		NONE	-	-	26/26	30/30	25/25	144	28/28	40/40	28/27	146	31/31	40/40	31/31	40/40	149	33/32	45/45	33/33	45/45	151	40/40	31/31	40/40	33/33	45/45	33/33	151		
		102A	4.9/6.5	13.6/15.6	43/45	50/50	41/43	158/160	45/47	50/50	43/45	160/162	48/50	50/50	47/49	50/50	163/165	50/52	60/60	49/51	50/60	49/51	165/167	50/60	47/49	50/60	49/51	50/60	49/51	165/167	
		103B	6.5/8.7	18.1/20.9	49/52	50/60	46/49	162/165	51/54	60/60	48/51	164/167	53/57	60/60	52/55	167/170	55/59	60/60	54/57	60/60	54/57	169/172	60/60	52/55	60/60	54/57	60/60	54/57	169/172		
		105A	12.0/16.0	33.4/38.5	66/74	70/80	64/69	177/183	70/76	70/80	66/72	179/185	73/79	80/80	69/75	182/188	74/81	80/90	72/77	80/90	72/77	184/190	80/90	69/75	80/90	72/77	80/90	72/77	184/190		
		104B+104B	15.8/21.0	43.8/50.5	81/89	90/90	76/83	232/245	83/91	90/100	78/85	234/247	86/94	90/100	81/89	237/250	87/96	90/100	83/91	90/100	83/91	239/252	90/100	81/89	90/100	83/91	90/100	83/91	239/252		

See: "Legend and Notes for Tables 1 and 2" on page 21.

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	MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	LRA		
50TCQ*05	DD-STD	NONE	-	-	13	15	13	47	14	20	14	48	15	20	15	20	15	49	16	20	16	50	16	20	16	50
		108A	6.0	7.2	21	25	21	54	22	25	22	55	24	25	22	25	23	56	25	25	25	57	25	25	25	57
		108A	11.5	13.8	29	30	29	61	30	35	30	62	32	35	31	35	31	63	33	35	33	64	35	35	33	64
		108A	14.0	16.8	32	35	32	64	33	35	33	65	36	40	35	40	35	66	37	40	37	67	40	40	36	67
		108A+108A	23.0	27.7	45	50	45	102	46	50	46	103	50	50	50	47	50	104	51	60	51	105	60	60	48	105
460-3-60	MED	NONE	-	-	11	15	11	61	12	15	12	62	14	15	13	15	63	15	20	15	64	20	20	15	64	
		108A	6.0	7.2	19	25	19	68	20	25	20	69	23	25	22	25	70	24	25	24	71	25	25	23	71	
		108A	11.5	13.8	27	30	27	75	28	30	28	76	31	35	29	35	77	32	35	32	78	35	35	30	78	
		108A	14.0	16.8	30	35	30	78	31	35	31	79	35	40	33	40	80	36	40	36	81	40	40	34	81	
		108A+108A	23.0	27.7	43	50	43	116	44	50	44	117	48	50	45	50	118	49	50	49	119	50	50	46	119	
575-3-60	HIGH	NONE	-	-	12	15	12	71	13	15	13	72	15	20	14	20	73	16	20	16	74	20	20	16	74	
		108A	6.0	7.2	20	25	20	78	21	25	21	79	24	25	23	25	80	25	25	25	81	25	25	24	81	
		108A	11.5	13.8	28	30	28	85	29	35	29	86	32	35	30	35	87	33	35	33	88	35	35	32	88	
		108A	14.0	16.8	31	35	31	88	32	35	32	89	36	40	34	40	90	37	40	37	91	40	40	35	91	
		108A+108A	23.0	27.7	44	50	44	126	45	50	45	127	49	50	46	50	128	50	50	50	129	50	50	47	129	
575-3-60	DD-STD	-	-	-	11	15	11	39	13	15	13	41	13	15	13	41	13	15	15	20	15	20	15	20	15	43
	MED	-	-	-	8	15	8	42	10	15	10	44	10	15	10	44	10	15	15	20	15	20	15	20	15	46
	HIGH	-	-	-	9	15	9	46	11	15	11	48	11	15	11	48	11	15	15	20	15	20	15	20	15	50

See: "Legend and Notes for Tables 1 and 2" on page 21.

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	FLA	DISC. SIZE	LRA	MCA	FUSE or BRKR	FLA	DISC. SIZE	LRA	MCA	FUSE or BRKR	FLA	DISC. SIZE	LRA			
50TCQ*06	208/230-1-60	DD-STD	NONE	-	-	42	60	40	145	44	60	43	147	47	60	46	150	49	60	48	152	
			102A	4.9/6.5	23.5/27.1	71/76	80/80	67/72	169/172	73/78	80/80	70/74	171/174	76/81	80/90	73/77	174/177	78/83	80/100	75/79	176/179	
			103B	6.5/8.7	31.4/36.3	81/87	90/100	76/82	176/181	83/89	100/100	79/84	178/183	86/92	100/100	82/88	181/186	88/94	100/100	84/90	183/188	
			102A+102A	9.8/13.0	46.9/54.2	101/110	110/110	94/103	239/253	103/112	110/125	96/105	241/255	106/115	110/125	100/108	244/258	107/117	110/125	102/110	246/260	
			103B+103B	13.1/17.4	62.8/72.5	121/133	125/150	113/124	271/290	123/135	125/150	115/126	273/292	125/138	125/150	118/129	276/295	127/139	150/150	120/131	278/297	
			104B+104B	15.8/21.0	75.8/87.5	137/151	150/175	128/141	297/320	139/153	150/175	130/143	299/322	142/156	150/175	133/147	302/325	144/158	150/175	135/149	304/327	
			NONE	-	-	29	40	28	121	31	45	30	123	34	45	34	126	36	50	36	50	128
			102A	4.9/6.5	13.6/15.6	46/48	50/50	44/46	135/137	48/50	50/60	46/48	137/139	51/53	60/60	49/52	140/142	53/55	60/60	52/54	60/60	142/144
			104B	7.9/10.5	21.9/25.3	56/60	60/70	53/57	143/146	58/62	60/70	56/59	145/148	61/65	70/70	59/63	148/151	63/67	70/70	61/65	70/70	150/153
			105A	12.0/16.0	33.4/38.5	71/77	80/80	67/72	154/160	73/79	80/80	69/75	156/162	75/82	80/90	72/78	159/165	77/84	80/90	74/80	80/90	161/167
208/230-3-60	DD-STD	104B+104B	15.8/21.0	43.8/50.5	84/92	90/100	79/86	209/222	86/94	90/100	81/88	211/224	88/97	90/100	84/92	214/227	90/99	90/100	86/94	216/229		
		104B+105A	19.9/26.5	55.2/63.8	98/109	100/110	92/102	231/249	100/111	100/125	94/104	233/251	103/113	110/125	97/107	236/254	105/115	110/125	99/109	238/256		
		NONE	-	-	28/28	40/40	28/27	171	30/30	45/45	30/30	173	33/33	45/45	33/33	176	35/35	50/50	35/35	178		
		102A	4.9/6.5	13.6/15.6	45/48	50/50	43/45	185/187	47/50	50/60	45/47	187/189	50/52	60/60	49/51	190/192	52/54	60/60	51/53	192/194		
		104B	7.9/10.5	21.9/25.3	56/60	60/60	53/56	193/196	58/62	60/70	55/59	195/198	61/65	70/70	58/62	198/201	62/66	70/70	60/64	200/203		
		105A	12.0/16.0	33.4/38.5	70/76	70/80	66/72	204/210	72/78	80/80	68/74	206/212	75/81	80/90	72/77	209/215	77/83	80/90	74/79	211/217		
		104B+104B	15.8/21.0	43.8/50.5	83/91	90/100	78/85	259/272	85/93	90/100	80/88	261/274	88/96	90/100	83/91	264/277	90/98	90/100	86/93	266/279		
		104B+105A	19.9/26.5	55.2/63.8	97/108	100/110	91/101	281/299	99/110	100/110	93/103	283/301	102/113	110/125	97/106	286/304	104/115	110/125	99/108	288/306		
		NONE	-	-	30/30	45/40	29/29	186	32/32	45/45	32/31	188	35/35	45/45	35/35	191	37/36	50/50	37/37	183		
		102A	4.9/6.5	13.6/15.6	47/49	50/60	45/47	200/202	49/51	60/60	47/49	202/204	52/54	60/60	50/53	205/207	54/56	60/60	53/55	207/209		
HIGH	104B+104B	104B	7.9/10.5	21.9/25.3	57/61	60/70	55/58	208/211	59/63	60/70	57/60	210/213	62/66	70/70	60/64	213/216	64/68	70/70	62/66	215/218		
		105A	12.0/16.0	33.4/38.5	72/78	80/80	68/73	219/225	74/80	80/80	70/76	221/227	76/83	80/90	73/79	224/230	78/85	80/90	75/81	226/232		
		104B+104B	15.8/21.0	43.8/50.5	85/93	90/100	80/87	274/287	87/95	90/100	82/89	276/289	89/98	90/100	85/93	279/292	91/100	100/100	87/95	281/294		
		104B+105A	19.9/26.5	55.2/63.8	99/110	100/110	93/103	296/314	101/111	110/125	95/105	298/316	104/114	110/125	98/108	301/319	106/116	110/125	101/110	303/321		

See: "Legend and Notes for Tables 1 and 2" on page 21.

50TCQ*04-14

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	DISC. SIZE FLA LRA	MCA	FUSE or HACR BRKR	DISC. SIZE FLA LRA	MCA	FUSE or HACR BRKR	DISC. SIZE FLA LRA	MCA	FUSE or HACR BRKR	DISC. SIZE FLA LRA						
50TCQ*06	460-3-60	DD-STD	NONE	-	-	20	14	58	16	20	16	59	17	20	17	60	18	25	18	61		
			108A	6.0	7.2	25	23	65	24	30	24	66	25	30	25	30	27	30	26	30	68	
			108A	11.5	13.8	35	30	72	33	40	31	73	33	35	33	35	34	35	35	34	35	75
			108A	14.0	16.8	40	34	75	37	40	35	76	36	40	36	40	39	39	40	37	40	78
			108A+108A	23.0	27.7	50	46	113	51	60	47	114	49	60	49	60	53	53	60	50	60	116
			108A+109A	25.5	30.7	60	50	119	54	60	51	120	52	60	52	60	56	56	60	53	60	122
			NONE	-	-	20	14	82	15	20	15	83	16	83	16	20	16	84	17	20	17	85
			108A	6.0	7.2	25	22	89	24	25	23	90	24	91	24	30	24	91	26	30	26	92
			108A	11.5	13.8	35	30	96	33	35	31	97	32	98	32	35	32	98	35	35	33	99
			108A	14.0	16.8	40	33	99	36	40	34	100	36	101	36	40	36	101	38	40	37	102
50TCQ*06	460-3-60	HIGH	108A+108A	23.0	27.7	50	46	137	50	50	47	138	51	60	48	139	52	60	49	140		
			108A+109A	25.5	30.7	60	49	143	54	60	50	144	55	60	52	60	145	56	60	53	146	
			NONE	-	-	20	15	90	16	20	16	91	17	91	17	20	17	92	25	18	93	
			108A	6.0	7.2	25	23	97	25	30	24	98	26	98	25	30	25	99	27	30	27	100
			108A	11.5	13.8	35	30	104	33	35	32	105	35	105	33	35	33	106	36	40	34	107
			108A	14.0	16.8	40	34	107	37	40	35	108	38	108	36	40	36	109	39	40	38	110
			108A+108A	23.0	27.7	50	46	145	51	60	48	146	52	146	49	60	49	147	53	60	50	148
			108A+109A	25.5	30.7	60	50	151	54	60	51	152	56	152	52	60	52	153	57	60	54	154
			NONE	-	-	15	12	45	14	20	14	47	14	47	14	15	14	47	16	20	16	49
			NONE	-	-	15	10	52	12	15	12	54	12	54	12	15	12	54	14	15	14	56
575-3-60	575-3-60	HIGH	-	-	15	11	63	13	15	13	65	13	15	13	65	15	20	15	20	67		

See: "Legend and Notes for Tables 1 and 2" on page 21.

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 BRKR	DISC. SIZE	MCA	FUSE or BRKR	DISC. SIZE	MCA	FUSE or BRKR	DISC. SIZE	MCA	FUSE or BRKR	DISC. SIZE					
50TCQ*07	208/230-3-60	STD	NONE	-	-	31/31	45/45	30/29	163	33/33	50/50	32/31	165	36/35	50/50	35/35	188	38/37	50/50	35/35	170	
			102A	4.9/6.5	13.6/15.6	48/50	60/60	45/47	177/179	50/52	60/60	47/49	179/181	53/55	60/60	60/60	51/53	182/184	55/57	60/60	53/55	184/186
			104B	7.9/10.5	21.9/25.3	59/62	80/70	55/58	185/188	60/64	60/70	57/60	187/190	63/67	70/70	70/70	60/64	190/193	65/69	70/80	62/66	192/195
			105A	12.0/16.0	33.4/38.5	73/79	80/80	68/73	198/202	75/81	80/90	70/76	198/204	77/81	80/90	80/90	73/79	201/207	79/85	80/90	76/81	203/209
			104B+104B	15.8/21.0	43.8/50.5	86/94	90/100	80/87	251/264	88/96	90/100	82/89	253/266	90/99	90/100	90/100	85/93	256/268	92/100	100/100	88/95	258/271
			104B+105A	19.9/26.5	55.2/63.8	100/110	100/110	93/103	273/291	102/112	110/125	95/105	275/293	105/115	110/125	110/125	99/108	278/296	107/117	110/125	101/110	280/298
			NONE	-	-	34/34	50/50	33/33	199	36/36	50/50	35/35	201	39/39	204	50/50	39/39	204	41/41	50/50	41/41	206
			102A	4.9/6.5	13.6/15.6	51/54	60/60	49/51	213/215	53/55	60/60	51/53	215/217	56/58	60/60	60/60	54/57	218/220	58/60	60/70	57/59	220/222
			104B	7.9/10.5	21.9/25.3	61/66	70/70	58/62	221/224	63/68	70/70	61/64	223/226	66/70	70/80	70/80	64/68	226/229	68/72	80/80	66/70	228/231
			105A	12.0/16.0	33.4/38.5	76/82	80/90	72/77	232/238	78/84	80/90	74/80	234/240	81/87	90/90	90/90	77/83	237/243	83/89	90/90	79/85	239/245
104B+104B	15.8/21.0	43.8/50.5	89/97	90/100	84/91	287/300	91/99	100/100	86/93	289/302	94/102	100/110	100/110	89/97	292/305	96/104	100/110	91/99	294/307			
104B+105A	19.9/26.5	55.2/63.8	103/114	110/125	97/106	309/327	105/116	110/125	99/109	311/329	108/119	110/125	110/125	102/112	314/332	110/120	110/125	104/114	316/334			
460-3-60	460-3-60	STD	NONE	-	-	16	25	15	82	33/33	50/50	35/35	201	39/39	50/50	39/39	204	41/41	50/50	41/41	206	
			102A	4.9/6.5	13.6/15.6	51/54	60/60	49/51	213/215	53/55	60/60	51/53	215/217	56/58	60/60	60/60	54/57	218/220	58/60	60/70	57/59	220/222
			104B	7.9/10.5	21.9/25.3	61/66	70/70	58/62	221/224	63/68	70/70	61/64	223/226	66/70	70/80	70/80	64/68	226/229	68/72	80/80	66/70	228/231
			105A	12.0/16.0	33.4/38.5	76/82	80/90	72/77	232/238	78/84	80/90	74/80	234/240	81/87	90/90	90/90	77/83	237/243	83/89	90/90	79/85	239/245
			104B+104B	15.8/21.0	43.8/50.5	89/97	90/100	84/91	287/300	91/99	100/100	86/93	289/302	94/102	100/110	100/110	89/97	292/305	96/104	100/110	91/99	294/307
			104B+105A	19.9/26.5	55.2/63.8	103/114	110/125	97/106	309/327	105/116	110/125	99/109	311/329	108/119	110/125	110/125	102/112	314/332	110/120	110/125	104/114	316/334
			NONE	-	-	18	25	17	100	36/36	50/50	35/35	201	39/39	204	50/50	39/39	204	41/41	50/50	41/41	206
			102A	4.9/6.5	13.6/15.6	51/54	60/60	49/51	213/215	53/55	60/60	51/53	215/217	56/58	60/60	60/60	54/57	218/220	58/60	60/70	57/59	220/222
			104B	7.9/10.5	21.9/25.3	61/66	70/70	58/62	221/224	63/68	70/70	61/64	223/226	66/70	70/80	70/80	64/68	226/229	68/72	80/80	66/70	228/231
			105A	12.0/16.0	33.4/38.5	76/82	80/90	72/77	232/238	78/84	80/90	74/80	234/240	81/87	90/90	90/90	77/83	237/243	83/89	90/90	79/85	239/245
104B+104B	15.8/21.0	43.8/50.5	89/97	90/100	84/91	287/300	91/99	100/100	86/93	289/302	94/102	100/110	100/110	89/97	292/305	96/104	100/110	91/99	294/307			
104B+105A	19.9/26.5	55.2/63.8	103/114	110/125	97/106	309/327	105/116	110/125	99/109	311/329	108/119	110/125	110/125	102/112	314/332	110/120	110/125	104/114	316/334			
575-3-60	575-3-60	STD	NONE	-	-	18	25	17	100	36/36	50/50	35/35	201	39/39	50/50	39/39	204	41/41	50/50	41/41	206	
			102A	4.9/6.5	13.6/15.6	51/54	60/60	49/51	213/215	53/55	60/60	51/53	215/217	56/58	60/60	60/60	54/57	218/220	58/60	60/70	57/59	220/222
			104B	7.9/10.5	21.9/25.3	61/66	70/70	58/62	221/224	63/68	70/70	61/64	223/226	66/70	70/80	70/80	64/68	226/229	68/72	80/80	66/70	228/231
			105A	12.0/16.0	33.4/38.5	76/82	80/90	72/77	232/238	78/84	80/90	74/80	234/240	81/87	90/90	90/90	77/83	237/243	83/89	90/90	79/85	239/245
			104B+104B	15.8/21.0	43.8/50.5	89/97	90/100	84/91	287/300	91/99	100/100	86/93	289/302	94/102	100/110	100/110	89/97	292/305	96/104	100/110	91/99	294/307
			104B+105A	19.9/26.5	55.2/63.8	103/114	110/125	97/106	309/327	105/116	110/125	99/109	311/329	108/119	110/125	110/125	102/112	314/332	110/120	110/125	104/114	316/334
			NONE	-	-	18	25	17	100	36/36	50/50	35/35	201	39/39	204	50/50	39/39	204	41/41	50/50	41/41	206
			102A	4.9/6.5	13.6/15.6	51/54	60/60	49/51	213/215	53/55	60/60	51/53	215/217	56/58	60/60	60/60	54/57	218/220	58/60	60/70	57/59	220/222
			104B	7.9/10.5	21.9/25.3	61/66	70/70	58/62	221/224	63/68	70/70	61/64	223/226	66/70	70/80	70/80	64/68	226/229	68/72	80/80	66/70	228/231
			105A	12.0/16.0	33.4/38.5	76/82	80/90	72/77	232/238	78/84	80/90	74/80	234/240	81/87	90/90	90/90	77/83	237/243	83/89	90/90	79/85	239/245
104B+104B	15.8/21.0	43.8/50.5	89/97	90/100	84/91	287/300	91/99	100/100	86/93	289/302	94/102	100/110	100/110	89/97	292/305	96/104	100/110	91/99	294/307			
104B+105A	19.9/26.5	55.2/63.8	103/114	110/125	97/106	309/327	105/116	110/125	99/109	311/329	108/119	110/125	110/125	102/112	314/332	110/120	110/125	104/114	316/334			
575-3-60	575-3-60	MED	NONE	-	-	12	15	11	59	14	20	13	61	14	20	13	61	16	20	15	63	
			102A	4.9/6.5	13.6/15.6	51/54	60/60	49/51	213/215	53/55	60/60	51/53	215/217	56/58	60/60	60/60	54/57	218/220	58/60	60/70	57/59	220/222
			104B	7.9/10.5	21.9/25.3	61/66	70/70	58/62	221/224	63/68	70/70	61/64	223/226	66/70	70/80	70/80	64/68	226/229	68/72	80/80	66/70	228/231
575-3-60	575-3-60	HIGH	NONE	-	-	13	20	12	74	15	20	15	76	15	20	14	76	17	20	17	78	
			102A	4.9/6.5	13.6/15.6	51/54	60/60	49/51	213/215	53/55	60/60	51/53	215/217	56/58	60/60	60/60	54/57	218/220	58/60	60/70	57/59	220/222
			104B	7.9/10.5	21.9/25.3	61/66	70/70	58/62	221/224	63/68	70/70	61/64	223/226	66/70	70/80	70/80	64/68	226/229	68/72	80/80	66/70	228/231

See: *Legend and Notes for Tables 1 and 2 * on page 21.

50TCQ*04-14

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. (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	
50TCQD08	208/230-3-60	STD	NONE	-	-	38/38	50/50	40/39	210	42/42	50/50	44/44	214	43/43	50/50	45/45	215	47/46	50/50	49/49	219	
			117A	7.8/10.4	21.7/25.0	65/69	70/70	65/68	232/235	69/73	70/80	69/73	236/239	70/74	70/80	70/80	237/240	74/78	80/80	74/78	241/244	
			110A	12.0/16.0	33.4/38.5	80/86	80/90	78/83	243/249	84/90	80/90	84/90	247/253	85/91	90/100	90/100	248/254	88/95	90/100	88/95	252/258	
			111A	18.6/24.8	51.7/59.7	103/112	110/125	99/108	262/270	107/116	110/125	103/112	103/112	266/274	108/117	110/125	105/113	109/118	111/121	125/125	109/118	271/279
			112A	24.0/32.0	66.7/77.0	122/134	125/150	116/128	277/287	125/138	125/150	121/132	125/150	281/291	126/139	150/150	122/133	282/292	130/143	150/150	126/138	286/296
			112A+117A	31.8/42.4	88.4/102.0	149/165	150/175	141/157	387/414	152/169	175/175	146/161	152/169	391/418	153/170	175/175	147/162	392/419	157/174	175/175	151/166	396/423
	460-3-60	MED	NONE	-	-	41/41	50/50	43/43	246	45/45	50/50	48/47	250	46/46	50/50	49/49	251	50/50	53/53	255		
			117A	7.8/10.4	21.7/25.0	68/72	70/80	68/72	268/271	72/76	80/80	69/73	272/275	73/77	80/80	74/77	80/80	273/276	77/81	80/90	78/82	
			110A	12.0/16.0	33.4/38.5	83/89	90/90	82/87	279/285	87/93	90/100	86/92	283/289	88/94	90/100	87/93	284/290	92/98	100/100	92/97	288/294	
			111A	18.6/24.8	51.7/59.7	106/116	110/125	103/112	298/306	110/120	110/125	107/116	302/310	111/121	125/125	108/117	115/124	303/311	115/124	125/125	113/122	307/315
			112A	24.0/32.0	66.7/77.0	125/137	125/150	120/132	313/323	129/141	150/150	124/136	317/327	130/142	150/150	125/137	318/328	133/146	150/150	130/142	322/332	
			112A+117A	31.8/42.4	88.4/102.0	152/169	175/175	145/160	423/450	156/173	175/175	149/165	427/454	157/174	175/175	150/166	428/455	160/177	175/200	155/170	432/459	
575-3-60	460-3-60	STD	NONE	-	-	18	20	19	104	20	25	21	106	20	25	21	106	22	25	23		
			116A	13.9	16.7	39	40	38	121	41	45	40	123	41	45	42	124	43	45	43		
			113A	16.5	19.8	43	45	42	124	45	45	126	45	126	45	45	126	47	45	46		
			114A	27.8	33.4	60	60	57	137	62	70	139	62	144	64	70	139	64	70	62		
			115A	33.0	39.7	68	70	64	144	70	70	146	70	146	70	70	146	72	80	69		
			114A+116A	41.7	50.2	81	90	76	204	83	90	206	83	206	85	90	206	85	90	81		
	575-3-60	MED	NONE	-	-	20	25	21	122	22	25	23	124	22	25	23	124	24	30	25		
			116A	13.9	16.7	41	45	40	139	43	45	42	141	43	45	42	141	45	45	45		
			113A	16.5	19.8	45	45	43	142	47	50	144	47	144	47	50	144	49	50	48		
			114A	27.8	33.4	62	70	59	155	64	70	157	64	157	64	70	157	66	70	64		
			115A	33.0	39.7	70	70	66	162	71	80	164	71	164	72	80	164	74	80	71		
			114A+116A	41.7	50.2	83	90	78	222	85	90	224	85	224	85	90	224	87	90	83		
575-3-60	HIGH	NONE	-	-	13	15	13	77	17	20	18	81	15	20	15	81	19	20	20			
		118A	17.0	20.4	39	40	37	97	42	45	41	101	42	45	40	99	44	45	43			
		119A	34.0	40.9	64	70	60	118	68	70	65	122	66	70	62	120	70	70	67			
		NONE	-	-	14	20	15	92	18	20	19	96	16	20	17	94	20	25	21			
		118A	17.0	20.4	40	40	38	112	44	45	43	116	42	45	40	114	45	45	45			
		119A	34.0	40.9	65	70	62	133	69	70	66	137	67	70	64	135	71	80	68			
575-3-60	HIGH	NONE	-	-	14	20	15	92	18	20	19	96	16	20	17	94	20	25	21			
		118A	17.0	20.4	40	40	38	112	44	45	43	116	42	45	40	114	45	45	45			
		119A	34.0	40.9	65	70	62	133	69	70	66	137	67	70	64	135	71	80	68			
		NONE	-	-	14	20	15	92	18	20	19	96	16	20	17	94	20	25	21			
		118A	17.0	20.4	40	40	38	112	44	45	43	116	42	45	40	114	45	45	45			
		119A	34.0	40.9	65	70	62	133	69	70	66	137	67	70	64	135	71	80	68			

See: "Legend and Notes for Tables 1 and 2" on page 21.

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.						NO P.E.						w/ PWRD C.O.								
		IFM TYPE	Nom (kW)	FLA	NO RE.			w/ P.E. (pwrd fr/unit)			NO P.E.			w/ PWRD C.O.			w/ P.E. (pwrd 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	MCA	FUSE or BRKR	DISC. SIZE FLA LRA						
50TCQ09	208/230-3-60	STD	NONE	-	-	42/42	50/50	44/43	218	46/46	60/60	48/48	222	47/47	60/60	49/49	60/60	49/49	223	51/51	60/60	53/53	227		
			117A	7.8/10.4	21.7/25.0	69/73	70/80	69/72	240/243	73/77	80/80	73/77	73/76	244/247	74/78	80/80	74/78	80/80	74/78	245/248	78/82	80/90	78/82	249/252	
			110A	12.0/16.0	33.4/38.5	84/90	90/90	82/88	251/257	88/94	90/100	88/94	90/100	86/92	255/261	89/95	90/100	89/95	90/100	256/262	93/99	100/100	92/97	260/266	
			111A	18.6/24.8	51.7/59.7	107/117	110/120	103/112	270/278	111/120	125/125	111/120	125/125	107/116	274/282	112/121	125/125	109/117	125/125	116/125	275/283	113/122	125/125	113/122	279/287
			112A	24.0/32.0	66.7/77.0	126/138	150/150	120/132	285/295	130/142	150/150	130/142	150/150	125/136	289/299	131/143	150/150	126/137	150/150	134/147	290/300	134/147	150/150	130/142	294/304
			112A+117A	31.8/42.4	88.4/102.0	153/170	175/175	145/161	395/422	157/173	175/175	157/173	175/175	150/165	399/426	158/174	175/175	151/166	175/200	161/178	400/427	161/178	175/200	155/170	404/431
	460-3-60	HIGH	NONE	-	-	46/45	60/60	47/47	254	49/49	60/60	52/52	258	47/47	60/60	53/53	60/60	53/53	259	54/54	60/60	57/57	263		
			117A	7.8/10.4	21.7/25.0	73/77	80/80	72/76	276/279	76/81	80/90	77/80	280/283	77/82	281/284	80/90	78/81	80/90	78/81	281/284	81/85	90/90	82/86	285/288	
			110A	12.0/16.0	33.4/38.5	87/94	90/100	86/91	287/293	91/97	100/100	91/97	90/96	291/297	92/98	100/100	91/97	100/100	92/98	292/298	96/102	100/110	96/101	296/302	
			111A	18.6/24.8	51.7/59.7	110/120	110/120	107/116	306/314	114/124	125/125	114/124	111/120	310/318	115/125	125/125	112/121	125/125	119/129	125/150	311/319	117/126	125/150	117/126	315/323
			112A	24.0/32.0	66.7/77.0	129/142	150/150	124/136	321/331	133/146	150/150	133/146	128/140	325/335	134/147	150/150	129/141	150/150	138/150	150/150	326/336	138/150	150/150	134/146	330/340
			112A+117A	31.8/42.4	88.4/102.0	156/173	175/175	149/164	431/458	160/177	175/200	160/177	153/169	435/462	161/178	175/200	154/170	175/200	165/182	175/200	436/463	165/182	175/200	159/174	440/467
575-3-60	460-3-60	STD	NONE	-	-	20	25	20	109	21	25	22	111	22	25	25	22	111	24	24	30	24	113		
			116A	13.9	16.7	40	40	39	126	42	45	41	128	43	44	45	44	45	128	44	46	50	44	130	
			113A	16.5	19.8	44	45	43	129	46	50	45	131	46	47	50	47	50	149	48	50	49	49	133	
			114A	27.8	33.4	61	70	58	142	63	70	60	144	63	144	70	61	70	144	65	70	63	63	146	
			115A	33.0	39.7	69	70	66	149	71	80	68	151	151	151	80	68	80	151	73	73	80	70	153	
			114A+116A	41.7	50.2	82	90	78	209	84	90	80	211	169	169	80	80	90	169	86	88	90	82	213	
	575-3-60	HIGH	NONE	-	-	21	25	22	127	23	25	24	129	23	25	25	24	129	25	25	30	26	131		
			116A	13.9	16.7	42	45	41	144	44	45	146	44	146	44	45	44	46	46	46	50	46	148		
			113A	16.5	19.8	46	50	45	147	48	50	47	149	48	49	50	47	50	50	50	49	49	151		
			114A	27.8	33.4	63	70	60	160	65	70	62	162	65	70	63	70	62	162	67	70	65	65	164	
			115A	33.0	39.7	71	80	68	167	73	80	70	169	73	169	80	70	80	169	75	75	80	72	171	
			114A+116A	41.7	50.2	84	90	80	227	86	90	82	229	86	229	86	90	82	229	88	88	90	84	231	
575-3-60	STD	NONE	-	-	15	20	15	81	19	20	20	85	17	20	20	17	83	21	21	25	22	87			
		118A	17.0	20.4	41	45	39	101	44	45	103	44	103	44	45	44	46	46	46	50	45	107			
		119A	34.0	40.9	66	70	62	122	70	70	67	126	68	70	70	64	72	72	72	80	69	128			
		NONE	-	-	16	20	17	96	20	25	21	100	18	20	20	19	98	22	22	25	23	102			
		118A	17.0	20.4	42	45	40	116	46	50	44	120	43	45	45	42	118	47	47	50	46	102			
		119A	34.0	40.9	67	70	64	137	71	80	68	141	69	70	70	66	139	73	73	80	70	143			
575-3-60	HIGH	NONE	-	-	16	20	17	96	20	25	21	100	18	20	20	19	98	22	22	25	23	102			
		118A	17.0	20.4	42	45	40	116	46	50	44	120	43	45	45	42	118	47	47	50	46	102			
		119A	34.0	40.9	67	70	64	137	71	80	68	141	69	70	70	66	139	73	73	80	70	143			
		NONE	-	-	16	20	17	96	20	25	21	100	18	20	20	19	98	22	22	25	23	102			
		118A	17.0	20.4	42	45	40	116	46	50	44	120	43	45	45	42	118	47	47	50	46	102			
		119A	34.0	40.9	67	70	64	137	71	80	68	141	69	70	70	66	139	73	73	80	70	143			

See: *Legend and Notes for Tables 1 and 2 * on page 21.



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.															
		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	LRA	MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	LRA	MCA	FUSE or HACR BRKR	FLA	DISC. SIZE	LRA	
50TCQD12	208/230-3-60	STD	NONE	-	-	49/49	60/60	51/51	56/55	313	54/54	60/60	60/60	57/57	314	58/57	70/70	61/61	318		
			117A	7.8/10.4	21.7/25.0	76/80	80/80	76/80	331/334	81/84	335/338	81/85	80/90	80/90	82/85	336/339	85/89	90/90	86/90	340/343	
			110A	12.0/16.0	33.4/38.5	91/97	100/100	90/95	342/348	95/101	346/352	96/102	100/110	100/110	95/101	347/353	99/106	100/110	100/105	351/357	
			112A	24.0/32.0	66.7/77.0	132/145	150/150	128/144	376/386	136/149	380/390	137/150	150/150	150/150	134/145	381/391	141/154	150/175	138/150	385/395	
			112A+117A	31.8/42.4	88.4/102.0	160/176	175/200	153/168	486/513	163/180	490/517	164/181	175/200	175/200	157/173	491/518	168/185	175/200	167/183	495/522	
			112A+110A	37.6/50.0	104.2/120.3	179/169	200/175	171/189	517/550	183/173	521/554	184/174	200/200	200/200	177/195	522/555	188/178	200/200	181/199	526/559	
	460-3-60	MED	NONE	-	-	53	60	56	338	342	58	70	70	61	343	61	70	65	347		
			117A	7.8/10.4	21.7/25.0	80/84	80/90	81/84	360/363	84/88	364/367	85/89	90/90	90/90	86/90	365/368	88/93	90/100	90/94	369/372	
			110A	12.0/16.0	33.4/38.5	94/101	100/110	94/100	371/377	98/105	375/381	99/106	100/110	100/110	99/105	376/382	103/109	110/110	104/110	380/386	
			112A	24.0/32.0	66.7/77.0	136/149	150/150	132/144	405/415	140/153	409/419	141/154	150/175	150/175	137/148	414/424	145/158	150/175	142/154	414/424	
			112A+117A	31.8/42.4	88.4/102.0	163/180	175/200	157/173	515/542	167/184	519/546	168/185	175/200	175/200	162/177	520/547	172/189	175/200	167/183	524/551	
			112A+110A	37.6/50.0	104.2/120.3	183/173	200/200	175/194	549/579	187/177	550/583	188/178	200/200	200/200	181/199	551/584	192/182	200/200	185/204	555/588	
575-3-60	STD	NONE	-	-	56/55	60/60	59/58	340	344	61/60	70/70	70/70	65/63	345	64/63	70/70	69/68	349			
		117A	7.8/10.4	21.7/25.0	83/86	80/90	84/87	362/365	87/90	366/369	88/91	90/100	90/100	89/92	367/370	91/95	100/100	94/97	371/374		
		110A	12.0/16.0	33.4/38.5	97/103	100/110	97/102	373/379	101/107	377/383	102/108	110/110	110/110	103/108	378/384	106/112	110/125	107/112	382/388		
		112A	24.0/32.0	66.7/77.0	139/151	150/175	136/147	407/417	143/155	411/421	144/156	150/175	150/175	141/152	412/422	148/160	150/175	146/156	416/426		
		112A+117A	31.8/42.4	88.4/102.0	166/182	175/200	161/175	517/544	170/186	521/548	171/187	175/200	175/200	166/181	522/549	175/191	175/200	171/185	526/553		
		112A+110A	37.6/50.0	104.2/120.3	186/175	200/200	179/196	549/581	190/179	552/585	191/180	200/200	200/200	184/202	553/586	195/184	200/200	189/206	557/590		
	HIGH	NONE	-	-	24	30	25	148	150	27	26	30	30	27	150	28	30	30	152		
		116A	13.9	16.7	45	45	44	165	167	46	47	50	50	46	167	49	50	49	169		
		113A	16.5	19.8	49	50	48	168	170	51	51	60	60	50	170	53	60	53	172		
		115A	33.0	39.7	74	80	71	188	190	76	76	80	80	73	190	78	80	75	192		
		114A+116A	41.7	50.2	87	90	83	248	250	89	89	90	90	85	250	91	100	88	252		
		115A+119A	50.0	60.1	84	90	94	268	270	86	86	90	90	96	270	88	90	99	272		
575-3-60	STD	NONE	-	-	26	30	27	163	165	28	30	30	29	165	30	30	30	167			
		116A	13.9	16.7	47	45	47	180	182	49	49	50	50	182	51	60	51	184			
		113A	16.5	19.8	51	60	50	183	185	53	53	60	60	52	185	55	60	55	187		
		115A	33.0	39.7	76	80	73	203	205	78	78	80	80	75	205	80	80	78	207		
		114A+116A	41.7	50.2	89	90	85	263	265	91	91	100	100	88	265	93	100	90	267		
		115A+119A	50.0	60.1	86	90	96	283	285	88	88	90	90	99	285	90	100	101	287		
	MED	NONE	-	-	27	30	29	164	166	29	29	35	35	31	166	31	35	33	168		
		116A	13.9	16.7	48	50	48	181	183	50	50	50	50	50	183	52	60	52	185		
		113A	16.5	19.8	52	60	51	184	186	54	54	60	60	54	186	56	60	56	188		
		115A	33.0	39.7	77	80	74	204	206	79	79	80	80	77	206	81	90	79	208		
		114A+116A	41.7	50.2	90	90	86	264	266	92	92	100	100	89	266	94	100	91	268		
		115A+119A	50.0	60.1	87	90	98	284	286	89	89	90	90	100	286	91	100	102	288		

See: "Legend and Notes for Tables 1 and 2" on page 21.

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.												
		ORHEATER**A00	Nom (kW)	FLA	NO RE.						w/ P.E. (pwrd fr/unit)						NO PE.						w/ P.E. (pwrd fr/unit)					
					MCA	FUSE or BRKR	DISC. SIZE		MCA	FUSE or BRKR	FLA	DISC. SIZE		MCA	FUSE or BRKR	FLA	DISC. SIZE		MCA	FUSE or BRKR	FLA	DISC. SIZE						
							FLA	LRA				FLA	LRA				FLA	LRA				FLA	LRA	FLA	LRA			
50TCDD14	208/230-3-60	STD	NONE	-	-	64/64	80/80	66/66	382	68/67	80/80	71/71	386	69/68	80/80	72/72	387	72/72	80/80	76/76	391							
			291A	12.4/16.5	34.4/39.7	107/113	110/125	106/112	416/422	111/117	125/125	110/116	420/426	112/118	125/125	111/117	421/427	115/122	125/125	116/122	425/431							
			288A+291A	19.9/26.5	55.3/63.8	133/143	150/150	130/140	493/510	137/147	150/150	134/144	497/514	138/148	150/150	135/145	498/515	141/152	150/175	140/150	502/519							
			294A	25.2/33.5	69.9/80.6	151/164	175/175	147/159	452/463	155/168	175/175	151/163	456/467	156/169	175/175	152/164	457/468	160/173	175/175	157/169	461/472							
			288A+294A	32.7/43.5	90.7/104.7	177/195	200/200	171/187	563/591	181/198	200/200	175/191	567/595	182/199	200/200	176/192	568/596	186/203	200/225	181/197	572/600							
			291A+294A	37.6/50.0	104.3/120.3	194/184	200/200	186/205	591/623	198/188	200/200	191/209	595/627	199/189	200/200	192/210	596/628	203/193	225/200	196/214	600/632							
			NONE	-	-	64/64	80/80	66/66	382	68/67	80/80	71/71	386	69/68	80/80	72/72	387	72/72	80/80	76/76	391							
			291A	12.4/16.5	34.4/39.7	107/113	110/125	106/112	416/422	111/117	125/125	110/116	420/426	112/118	125/125	111/117	421/427	115/122	125/125	116/122	425/431							
			288A+291A	19.9/26.5	55.3/63.8	133/143	150/150	130/140	493/510	137/147	150/150	134/144	497/514	138/148	150/150	135/145	498/515	141/152	150/175	140/150	502/519							
			294A	25.2/33.5	69.9/80.6	151/164	175/175	147/159	452/463	155/168	175/175	151/163	456/467	156/169	175/175	152/164	457/468	160/173	175/175	157/169	461/472							
			288A+294A	32.7/43.5	90.7/104.7	177/195	200/200	171/187	563/591	181/198	200/200	175/191	567/595	182/199	200/200	176/192	568/596	186/203	200/225	181/197	572/600							
			291A+294A	37.6/50.0	104.3/120.3	194/184	200/200	186/205	591/623	198/188	200/200	191/209	595/627	199/189	200/200	192/210	596/628	203/193	225/200	196/214	600/632							
			460-3-60	HIGH	NONE	-	-	76	90	402	80	33	80	85	406	81	100	86	407	84	100	90	411					
					291A	12.4/16.5	34.4/39.7	119/125	125/125	124/130	440/446	123/129	125/150	124/130	440/446	124/130	125/150	125/131	441/447	127/134	150/150	130/136	445/451					
					288A+291A	19.9/26.5	55.3/63.8	145/156	150/175	144/154	513/530	149/159	150/175	148/158	517/534	150/160	150/175	149/159	518/535	153/164	175/175	154/163	522/539					
294A	25.2/33.5	69.9/80.6			163/177	175/200	161/173	472/483	167/180	175/200	165/177	476/487	168/181	175/200	166/178	477/488	172/185	175/200	170/183	481/492								
288A+294A	32.7/43.5	90.7/104.7			189/207	200/225	184/201	583/611	193/210	200/225	189/205	587/615	194/211	200/225	190/206	588/616	198/215	200/225	194/210	592/620								
291A+294A	37.6/50.0	104.3/120.3			208/196	225/225	200/219	611/643	210/200	225/225	204/223	615/647	211/201	225/225	206/224	616/648	215/205	225/225	210/228	620/652								
NONE	-	-			31	40	32	192	33	40	34	194	33	40	35	194	35	45	37	196								
292A	16.5	19.9			56	60	55	212	58	60	57	214	58	60	57	214	60	60	59	216								
288A+292A	26.5	31.9			71	80	69	256	73	80	71	258	73	80	71	258	75	80	73	280								
295A	33.5	40.3			81	90	78	232	83	90	80	234	83	90	81	234	85	90	83	286								
288A+295A	43.5	52.3			96	100	92	297	98	100	94	299	98	100	95	299	100	100	97	301								
292A+295A	50.0	60.2			91	100	101	312	93	100	103	314	93	100	104	314	95	100	106	316								
NONE	-	-			31	40	32	192	33	40	34	194	33	40	35	194	35	45	37	196								
292A	16.5	19.9			56	60	55	212	58	60	57	214	58	60	57	214	60	60	59	216								
288A+292A	26.5	31.9			71	80	69	256	73	80	71	258	73	80	71	258	75	80	73	280								
295A	33.5	40.3	81	90	78	232	83	90	80	234	83	90	81	234	85	90	83	286										
288A+295A	43.5	52.3	96	100	92	297	98	100	94	299	98	100	95	299	100	100	97	301										
292A+295A	50.0	60.2	91	100	101	312	93	100	103	314	93	100	104	314	95	100	106	316										
NONE	-	-	37	45	39	202	39	45	41	204	39	45	41	204	41	50	43	206										
292A	16.5	19.9	62	70	62	222	64	70	64	224	64	70	64	224	66	70	66	226										
288A+292A	26.5	31.9	77	80	76	266	79	80	78	268	79	80	78	268	81	90	80	270										
295A	33.5	40.3	87	90	85	242	89	90	87	244	89	90	88	244	91	100	90	246										
288A+295A	43.5	52.3	102	110	99	307	104	110	101	309	104	110	102	309	106	110	104	311										
292A+295A	50.0	60.2	97	100	108	322	99	110	110	324	99	110	111	324	101	110	113	326										

See: * Legend and Notes for Tables 1 and 2 * on page 21.



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)			NO PE.			w/ P.E. (pwrdr fr/unit)							
					MCA	FUSE or HACR 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			
STD		NONE	-	-	30	25	136	28	30	30	30	140	26	30	27	138	30	35	32	32	142	30	35	32	32	142	
		293A	16.5	15.9	45	43	152	48	50	48	156	46	50	45	50	45	154	50	50	50	50	158	50	50	50	50	158
		290A+293A	26.5	25.5	60	55	187	60	60	59	191	58	60	56	60	56	189	62	70	61	61	193	62	70	61	61	193
		296A	33.5	32.2	70	62	168	69	70	67	172	66	70	66	70	64	170	70	70	69	69	174	70	70	69	69	174
		290A+296A	43.5	41.8	80	73	220	81	90	78	224	78	80	75	80	75	222	82	90	80	80	226	82	90	80	80	226
293A+296A	50.0	48.1	80	81	232	76	80	85	236	74	80	82	80	82	234	78	80	87	87	238	78	80	87	87	238		
MED	575-3-60	NONE	-	-	30	25	136	28	30	30	140	26	30	27	138	30	35	32	32	32	142	30	35	32	32	142	
		293A	16.5	15.9	45	43	152	48	50	48	156	46	50	45	50	45	154	50	50	50	50	158	50	50	50	50	158
		290A+293A	26.5	25.5	60	55	187	60	60	59	191	58	60	56	60	56	189	62	70	61	61	193	62	70	61	61	193
		296A	33.5	32.2	70	62	168	69	70	67	172	66	70	66	70	64	170	70	70	69	69	174	70	70	69	69	174
		290A+296A	43.5	41.8	80	73	220	81	90	78	224	78	80	75	80	75	222	82	90	80	80	226	82	90	80	80	226
293A+296A	50.0	48.1	80	81	232	76	80	85	236	74	80	82	80	82	234	78	80	87	87	238	78	80	87	87	238		
HIGH		NONE	-	-	35	32	148	35	40	37	152	33	40	34	40	34	150	36	40	39	40	154	36	40	39	40	154
		293A	16.5	15.9	60	51	164	54	60	55	168	52	60	53	60	53	166	56	60	57	60	170	56	60	57	60	170
		290A+293A	26.5	25.5	70	62	199	66	70	66	203	64	70	64	70	64	201	68	70	68	70	205	68	70	68	70	205
		296A	33.5	32.2	80	69	180	75	80	74	184	73	80	71	80	71	182	77	80	77	80	186	77	80	77	80	186
		290A+296A	43.5	41.8	90	80	232	87	90	85	236	85	90	85	90	85	234	89	90	89	90	238	89	90	89	90	238
293A+296A	50.0	48.1	90	88	244	83	90	88	248	81	90	92	90	90	246	84	90	94	90	250	84	90	94	90	250		

See: "Legend and Notes for Tables 1 and 2" on page 21.

Table 2 – Unit Wire/Fuse or HACR Breaker Sizing Data with Factory Installed 2 Speed Indoor Fan Option

UNIT	NO M, V-PH-HZ	ELEC. HTR				NO C.O. or UNPWR C.O.																	
		IFM TYPE	CRHEATER***A00	Nom (kW)	FLA	NO RE.				w/ P.E. (pwrd 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		
50TCD08	208/230-3-60	STD	NONE	-	-	39/39	50/50	40/40	197	43/42	50/50	45/44	201	44/43	50/50	46/46	202	47/47	60/60	50/50	206		
			117A	7.8/10.4	21.7/25.0	66/70	70/70	65/69	219/222	70/74	70/80	70/73	70/73	223/226	71/75	80/80	71/74	224/227	74/78	80/80	75/79	228/231	
			110A	12.0/16.0	33.4/38.5	80/87	90/90	79/84	230/236	84/90	90/90	90/90	83/89	234/240	85/91	90/100	84/90	235/241	89/95	90/100	89/94	239/245	
			111A	18.6/24.8	51.7/59.7	103/113	110/125	100/109	249/257	107/117	110/125	110/125	101/113	253/261	108/118	110/125	105/114	254/262	112/122	110/125	110/119	110/119	258/266
			112A	24.0/32.0	66.7/77.0	122/135	125/150	117/129	264/274	126/139	150/150	150/150	121/133	268/278	127/140	150/150	122/134	269/279	131/143	150/150	127/138	127/138	273/283
			112A+117A	31.8/42.4	88.4/102.0	149/166	150/175	142/157	374/401	153/170	175/175	175/175	146/162	378/405	154/171	175/175	147/163	379/406	158/175	175/175	152/167	152/167	383/410
	460-3-60	MED	NONE	-	-	42/41	50/50	43/43	227	45/45	50/50	48/47	231	46/46	50/50	49/48	232	50/49	60/60	53/52	236		
			117A	7.8/10.4	21.7/25.0	69/72	70/80	68/71	249/252	72/76	80/80	73/76	253/256	73/77	80/80	74/77	254/257	77/81	80/90	78/81	258/261		
			110A	12.0/16.0	33.4/38.5	83/89	90/90	82/87	260/266	87/93	90/100	86/91	264/270	88/94	90/100	87/92	265/271	92/97	100/100	92/97	269/275		
			111A	18.6/24.8	51.7/59.7	106/115	110/125	103/111	279/287	110/119	110/125	107/116	283/291	111/120	125/125	108/117	125/125	284/292	115/124	125/125	113/121	288/296	
			112A	24.0/32.0	66.7/77.0	125/137	125/150	120/131	294/304	129/141	150/150	125/135	298/308	130/142	150/150	126/137	299/309	134/146	150/150	130/141	130/141	303/313	
			112A+117A	31.8/42.4	88.4/102.0	152/168	175/175	145/160	404/431	156/172	175/175	150/164	408/435	157/173	175/175	151/165	409/436	161/177	175/200	155/170	155/170	413/440	
575-3-60	STD	NONE	-	-	19	20	19	97	20	20	48/47	231	46/46	50/50	49/48	232	50/49	60/60	53/52	236			
		116A	13.9	16.7	40	40	38	114	41	45	40	116	42	43	45	116	44	45	43	118			
		113A	16.5	19.8	43	44	42	117	45	45	119	46	119	46	46	119	47	50	47	121			
		114A	27.8	33.4	60	60	58	130	62	70	60	132	63	64	70	60	132	64	70	62	134		
		115A	33.0	39.7	68	70	65	137	70	70	139	67	139	71	80	67	139	72	80	69	141		
		114A+116A	41.7	50.2	81	90	77	197	83	80	79	199	84	85	90	79	199	85	90	82	201		
	HIGH	NONE	-	-	20	25	20	113	21	25	22	115	22	22	25	23	115	24	25	25	117		
		116A	13.9	16.7	40	40	39	130	42	45	42	132	43	43	45	42	132	44	45	44	134		
		113A	16.5	19.8	44	45	43	133	46	50	45	135	47	47	50	46	135	48	50	48	137		
		114A	27.8	33.4	61	70	59	146	63	70	61	148	64	64	70	61	148	65	70	63	150		
		115A	33.0	39.7	69	70	66	153	71	80	68	155	71	71	80	68	155	73	80	70	157		
		114A+116A	41.7	50.2	82	90	78	213	84	80	80	215	85	85	90	81	215	86	90	83	217		
575-3-60	STD	NONE	-	-	14	20	15	79	18	20	19	83	16	20	17	81	20	25	21	85			
		118A	17.0	20.4	40	40	38	99	44	45	40	103	42	42	45	40	101	45	45	105			
		119A	34.0	40.9	65	70	62	120	69	70	66	124	67	67	70	64	122	71	80	68	126		
		NONE	-	-	16	20	17	92	20	25	21	96	18	20	20	19	94	22	25	23	98		
		118A	17.0	20.4	42	45	40	112	45	45	45	116	43	43	45	42	114	47	50	46	118		
		119A	34.0	40.9	67	70	64	133	71	80	68	137	69	69	70	66	135	73	80	70	139		
575-3-60	HIGH	NONE	-	-	16	20	17	92	20	25	21	96	18	20	19	94	22	25	23	98			
		118A	17.0	20.4	42	45	40	112	45	45	45	116	43	43	45	42	114	47	50	46	118		
		119A	34.0	40.9	67	70	64	133	71	80	68	137	69	69	70	66	135	73	80	70	139		
		NONE	-	-	16	20	17	92	20	25	21	96	18	20	20	19	94	22	25	23	98		
		118A	17.0	20.4	42	45	40	112	45	45	45	116	43	43	45	42	114	47	50	46	118		
		119A	34.0	40.9	67	70	64	133	71	80	68	137	69	69	70	66	135	73	80	70	139		

See: "Legend and Notes for Tables 1 and 2" on page 21.

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.																	
		IFM TYPE	CRHEATER**A00	Nom (kW)	FLA	NO P.E.				w/ P.E. (p.wrd fr/unit)				NO P.E.				w/ P.E. (p.wrd fr/unit)					
						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		
50TCQD09	208/230-3-60	STD	NONE	-	-	43/43	50/50	44/44	205	47/47	60/60	49/48	209	48/48	60/60	50/50	210	52/51	60/60	54/54	214		
			117A	7.8/10.4	21.7/25.0	70/74	80/80	69/73	227/230	74/78	80/80	77/80	80/80	75/78	231/234	75/79	80/80	232/235	79/83	80/90	79/83	236/239	
			110A	12.0/16.0	33.4/38.5	85/91	90/100	83/88	238/244	89/95	90/100	91/97	90/100	87/93	242/248	90/96	90/100	243/249	93/99	100/100	93/98	247/253	
			111A	18.6/24.8	51.7/59.7	108/117	110/125	104/113	257/265	111/121	125/125	111/120	125/125	108/117	261/268	112/122	125/125	109/118	262/270	114/123	125/150	114/123	266/274
			112A	24.0/32.0	66.7/77.0	126/139	150/150	121/133	272/282	130/143	150/150	129/139	150/150	125/137	276/286	131/144	150/150	127/138	277/287	135/148	150/150	131/142	281/291
			112A+117A	31.8/42.4	88.4/102.0	153/170	175/175	146/161	382/409	157/174	175/175	154/168	175/200	150/166	386/413	158/177	175/200	151/167	387/414	162/179	175/200	156/171	391/418
	460-3-60	MED	NONE	-	-	46/45	60/60	47/47	235	50/49	60/60	52/51	239	51/50	60/60	53/52	240	54/54	60/60	57/56	244		
			117A	7.8/10.4	21.7/25.0	73/76	80/80	72/75	257/260	77/80	80/80	77/80	80/80	78/81	261/264	78/81	80/90	262/265	81/85	90/90	82/85	266/269	
			110A	12.0/16.0	33.4/38.5	88/93	90/100	86/91	268/274	91/97	100/100	90/95	90/95	272/278	92/98	100/100	91/96	273/279	96/102	100/110	96/101	277/283	
			111A	18.6/24.8	51.7/59.7	110/120	110/125	107/115	287/295	114/123	125/125	111/120	125/125	111/120	291/299	115/124	125/125	112/121	292/300	119/128	125/150	117/125	296/304
			112A	24.0/32.0	66.7/77.0	129/141	150/150	124/135	302/312	133/145	150/150	129/139	150/150	129/139	306/316	134/146	150/150	130/141	307/317	138/150	150/150	134/145	311/321
			112A+117A	31.8/42.4	88.4/102.0	158/172	175/175	149/164	412/439	160/176	175/200	154/168	175/200	154/168	416/443	161/177	175/200	155/169	417/444	165/181	175/200	159/174	421/448
575-3-60	460-3-60	STD	NONE	-	-	20	25	20	102	22	25	22	104	22	25	23	104	24	30	25	106		
			116A	13.9	16.7	41	45	40	119	43	45	42	121	43	124	44	45	124	45	45	44	123	
			113A	16.5	19.8	45	45	43	122	46	50	45	124	47	124	47	50	124	49	50	48	126	
			114A	27.8	33.4	62	70	59	135	63	70	61	137	64	137	64	70	137	66	70	63	139	
			115A	33.0	39.7	70	70	66	142	71	80	68	144	72	144	71	80	144	74	80	71	146	
			114A+116A	41.7	50.2	83	90	78	202	84	90	80	204	85	204	85	90	204	87	90	83	206	
	575-3-60	MED	NONE	-	-	21	25	21	118	23	25	23	120	23	25	25	120	25	30	25	122		
			116A	13.9	16.7	42	45	41	135	43	45	43	137	44	137	44	45	137	46	45	139		
			113A	16.5	19.8	46	50	44	138	47	50	46	140	48	140	48	50	140	50	49	142		
			114A	27.8	33.4	63	70	60	151	64	70	62	153	65	153	67	70	153	67	70	64	155	
			115A	33.0	39.7	70	70	67	158	72	80	69	160	73	160	74	80	160	74	80	72	162	
			114A+116A	41.7	50.2	84	90	79	218	85	90	81	220	86	220	86	90	220	88	90	84	222	
575-3-60	HIGH	NONE	-	-	16	20	17	83	20	25	21	87	18	20	25	85	22	25	23	89			
		118A	17.0	20.4	42	45	40	103	46	50	44	107	43	107	44	45	105	47	50	46	109		
		119A	34.0	40.9	67	70	64	124	71	80	68	128	69	126	73	80	126	73	80	70	130		
		NONE	-	-	18	20	19	96	22	25	23	100	20	98	23	25	98	23	25	25	102		
		118A	17.0	20.4	43	45	42	116	47	50	46	120	45	118	49	50	118	48	50	48	122		
		119A	34.0	40.9	69	70	66	137	73	80	70	141	71	139	75	80	139	75	80	72	143		
575-3-60	HIGH	NONE	-	-	18	20	19	96	22	25	23	100	20	98	23	100	20	98	23	102			
		118A	17.0	20.4	43	45	42	116	47	50	46	120	45	118	49	50	118	48	50	48	122		
		119A	34.0	40.9	69	70	66	137	73	80	70	141	71	139	75	80	139	75	80	72	143		
		NONE	-	-	18	20	19	96	22	25	23	100	20	98	23	25	98	23	25	25	102		
		118A	17.0	20.4	43	45	42	116	47	50	46	120	45	118	49	50	118	48	50	48	122		
		119A	34.0	40.9	69	70	66	137	73	80	70	141	71	139	75	80	139	75	80	72	143		

See: "Legend and Notes for Tables 1 and 2" on page 21.

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.									
		CRHEATER***A00	Nom (kW)	FLA	NO P.E.			w/ P.E. (pwrd fr/unit)			NO P.E.			w/ P.E. (pwrd fr/unit)			NO P.E.			w/ P.E. (pwrd fr/unit)					
					MCA	FUSE or BRKR	DISC. SIZE	MCA	FUSE or BRKR	DISC. SIZE	MCA	FUSE or BRKR	DISC. SIZE	MCA	FUSE or BRKR	DISC. SIZE	MCA	FUSE or BRKR	DISC. SIZE	MCA	FUSE or BRKR	DISC. SIZE			
IFM TYPE			FLA	FLA	LRA	FLA	LRA	FLA	LRA	FLA	LRA	FLA	LRA	FLA	LRA	FLA	LRA	FLA	LRA	FLA	LRA				
50TCQD12	208/230-3-60	NONE	-	-	279	52/51	60/60	60/60	53/53	60/60	56/56	283	54/54	60/60	60/60	57/57	284	58/58	70/70	70/70	59/59	288			
		117A	7.8/10.4	21.7/25.0	301/304	76/80	80/80	81/84	80/84	80/84	80/90	81/84	305/308	81/85	90/90	90/90	82/85	306/309	85/89	90/90	90/100	86/90	310/313		
		110A	12.0/16.0	33.4/38.5	312/318	91/97	100/100	90/95	95/101	95/101	100/110	94/100	316/322	96/102	100/110	100/110	95/101	317/323	100/106	100/110	100/110	100/105	321/327		
		112A	24.0/32.0	66.7/77.0	346/356	133/145	150/150	128/140	136/149	136/149	150/150	133/144	350/360	137/150	150/150	150/150	134/145	351/361	141/154	150/175	150/175	138/150	355/365		
		112A+117A	31.8/42.4	88.4/102.0	458/483	160/176	175/200	153/168	164/180	164/180	175/200	158/173	460/487	165/181	175/200	175/200	159/174	461/488	168/185	175/200	175/200	163/178	465/492		
		112A+110A	37.6/50.0	104.2/120.3	487/520	179/169	200/175	171/190	183/173	183/173	200/200	176/194	491/524	184/174	200/200	200/200	177/195	492/525	188/178	200/200	200/200	181/199	496/529		
	460-3-60	NONE	-	-	329	56/55	60/60	60/60	57/56	70/60	60/60	60/60	333	58/57	70/70	70/70	61/60	334	62/61	70/70	70/70	66/65	338		
		117A	7.8/10.4	21.7/25.0	351/354	81/83	80/90	84/87	84/87	90/90	85/88	355/358	85/88	90/90	90/90	86/89	356/359	89/92	90/100	90/100	91/93	360/363			
		110A	12.0/16.0	33.4/38.5	362/368	94/99	100/100	94/99	98/104	98/104	100/110	99/103	366/372	99/105	100/110	100/110	100/104	367/373	103/109	110/110	104/109	371/377			
		112A	24.0/32.0	66.7/77.0	396/406	136/148	150/150	132/143	136/148	140/152	150/175	137/148	400/410	141/153	150/175	150/175	138/149	401/411	145/157	150/175	150/175	142/153	405/415		
		112A+117A	31.8/42.4	88.4/102.0	508/533	163/179	175/200	157/172	167/183	167/183	175/200	162/176	510/537	168/184	175/200	175/200	163/177	511/538	172/188	175/200	175/200	167/182	515/542		
		112A+110A	37.6/50.0	104.2/120.3	537/570	183/172	200/200	176/193	187/176	187/176	200/200	180/197	541/574	188/177	200/200	200/200	181/198	542/575	192/181	200/200	200/200	185/203	546/579		
50TCQD12	208/230-3-60	NONE	-	-	340	59/58	60/60	60/59	70/70	70/70	63/62	344	61/60	70/70	70/70	65/63	345	64/63	70/70	70/70	69/68	349			
		117A	7.8/10.4	21.7/25.0	362/365	84/87	90/90	87/90	87/90	90/90	88/91	366/369	88/91	90/100	90/100	89/92	367/370	91/95	100/100	100/100	94/97	371/374			
		110A	12.0/16.0	33.4/38.5	373/379	97/102	100/110	97/102	101/107	101/107	110/110	102/107	377/383	102/108	110/110	110/110	103/108	378/384	106/112	110/112	107/112	382/388			
		112A	24.0/32.0	66.7/77.0	407/417	136/147	150/175	136/147	143/155	143/155	150/175	140/151	411/421	144/156	150/175	150/175	141/152	412/422	148/160	150/175	150/175	146/156	416/426		
		112A+117A	31.8/42.4	88.4/102.0	517/544	161/175	175/200	161/175	170/186	170/186	175/200	165/180	521/548	171/187	175/200	175/200	166/181	522/549	175/191	175/200	175/200	171/185	526/553		
		112A+110A	37.6/50.0	104.2/120.3	548/581	189/175	200/200	179/196	190/179	190/179	200/200	183/201	552/585	191/180	200/200	200/200	184/202	553/586	195/184	200/200	200/200	189/206	557/590		
	460-3-60	NONE	-	-	26	26	30	25	26	30	30	28	136	27	30	30	28	136	29	35	30	138			
		116A	13.9	16.7	151	45	50	47	47	50	47	153	48	50	50	47	153	50	50	50	49	155			
		113A	16.5	19.8	154	48	50	50	51	60	60	156	52	60	60	51	156	53	60	60	53	158			
		115A	33.0	39.7	174	71	80	73	76	80	80	176	77	80	80	74	176	78	80	80	76	178			
		114A+116A	41.7	50.2	234	83	90	83	89	90	90	236	236	90	90	86	236	91	100	100	88	238			
		115A+113A	50.0	60.1	254	95	90	95	87	88	90	256	256	88	90	90	256	89	100	100	99	258			
50TCQD12	208/230-3-60	NONE	-	-	159	27	30	26	30	30	29	161	28	30	30	29	161	30	35	30	163				
		116A	13.9	16.7	176	46	50	48	48	50	48	178	49	50	50	49	178	51	60	60	51	180			
		113A	16.5	19.8	179	50	60	52	52	60	60	181	53	60	60	52	181	55	60	60	54	183			
		115A	33.0	39.7	199	73	80	75	77	80	80	201	78	80	80	75	201	79	80	80	77	203			
		114A+116A	41.7	50.2	259	85	90	85	90	90	90	261	261	91	100	100	261	93	100	100	89	263			
		115A+113A	50.0	60.1	279	96	90	96	88	88	90	281	281	88	90	90	281	90	100	100	99	283			
	460-3-60	NONE	-	-	164	29	30	27	29	30	30	166	29	30	30	31	166	31	35	35	33	168			
		116A	13.9	16.7	181	48	50	48	48	50	50	183	50	50	50	50	183	52	60	60	52	185			
		113A	16.5	19.8	184	51	60	53	54	60	60	186	54	60	60	54	186	56	60	60	56	188			
		115A	33.0	39.7	204	74	80	74	79	80	80	206	79	80	80	77	206	81	90	90	79	208			
		114A+116A	41.7	50.2	264	86	90	86	92	90	90	266	266	92	100	100	266	94	100	100	91	268			
		115A+113A	50.0	60.1	284	98	90	98	89	89	90	288	288	89	100	100	288	91	100	100	102	288			

See: "Legend and Notes for Tables 1 and 2" on page 21.



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 PE.				w/ P.E. (pwrdr 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							
50TCQD12	575-3-60	STD	NONE	-	-	19	25	20	107	23	25	24	111	21	25	22	109	25	30	26	113	26	30	26	113		
			118A	17.0	20.4	45	44	127	49	50	48	131	47	50	46	129	47	50	46	129	50	50	50	50	50	133	
			119A	34.0	40.9	71	80	67	148	74	80	72	152	72	80	69	150	72	80	69	150	76	80	73	80	73	154
50TCQD12	575-3-60	MED	NONE	-	-	20	25	21	116	24	30	26	120	22	25	23	118	22	30	23	122	26	30	28	122		
			118A	17.0	20.4	46	50	45	136	50	50	49	140	48	50	47	138	48	50	47	138	51	60	51	142		
			119A	34.0	40.9	72	80	68	157	75	80	73	161	73	80	70	159	77	80	70	159	77	80	75	80	75	163
50TCQD12	575-3-60	HIGH	118A+119A	51.0	61.3	82	90	92	239	86	90	96	243	83	90	94	241	87	90	94	245	87	90	98	245		
			NONE	-	-	22	25	23	130	26	30	28	134	24	30	25	132	24	30	25	132	28	30	30	136		
			118A	17.0	20.4	48	50	47	150	52	60	51	154	49	50	49	152	49	50	49	152	53	60	53	60	156	
50TCQD12	575-3-60	HIGH	119A	34.0	40.9	73	80	70	171	77	80	75	175	75	80	72	173	79	80	72	177	79	80	77	80	177	
			118A+119A	51.0	61.3	84	90	94	253	87	90	98	257	85	90	96	255	89	100	96	259	89	100	100	100	259	

See: "Legend and Notes for Tables 1 and 2" on page 21.

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	IFM TYPE	ELEC. HTR		NO C.O. or UNPWR C.O.						w/ PWRD C.O.																	
			CRHEATER***A00	Nom (kW)	FLA	NO P.E.			w/ P.E. (pwrdr fr/unit)			NO P.E.			w/ P.E. (pwrdr fr/unit)													
						MCA	FUSE or BRKR	DISC. SIZE	MCA	FUSE or BRKR	DISC. SIZE	MCA	FUSE or BRKR	DISC. SIZE	MCA	FUSE or BRKR	DISC. SIZE											
FLA	FLA	FLA	FLA	FLA	FLA	FLA	FLA	FLA	FLA	FLA	FLA	FLA	FLA	FLA	FLA	FLA	FLA	FLA	FLA	FLA	FLA	FLA						
50TCD14		STD	NONE	-	-	64/63	80/80	67/66	363	68/67	80/80	71/70	367	69/68	80/80	72/71	368	73/72	80/80	76/76	372	80/80	76/76	372				
			291A	12.4/16.5	34.4/39.7	107/113	110/125	106/111	397/403	111/117	125/125	111/116	401/407	401/407	112/118	125/125	112/117	402/408	116/121	125/125	116/121	406/412	125/125	116/121	406/412			
			288A+291A	19.9/26.5	55.3/63.8	133/143	150/150	130/139	474/491	137/147	150/150	135/143	478/495	478/495	138/148	150/150	136/145	479/496	142/152	150/175	140/149	150/175	140/149	150/175	140/149	483/500		
			294A	25.2/33.5	69.9/80.6	151/164	175/175	147/158	433/444	155/168	175/175	151/163	437/448	437/448	156/169	200/200	175/175	152/164	438/449	160/173	175/175	157/168	175/175	157/168	175/175	157/168	442/453	
			288A+294A	32.7/43.5	90.7/104.7	177/194	200/200	171/186	544/572	181/198	200/200	175/190	548/576	548/576	182/199	200/200	176/192	549/577	549/577	186/203	200/225	181/196	200/225	181/196	200/225	181/196	200/225	181/196
		291A+294A	37.6/50.0	104.3/120.3	194/183	200/200	187/204	572/604	198/187	200/200	191/208	576/608	576/608	199/188	200/200	192/210	577/609	577/609	203/192	225/200	196/214	225/200	196/214	225/200	196/214	225/200	196/214	581/613
		MED	NONE	-	64/63	80/80	67/66	363	68/67	80/80	71/70	367	69/68	80/80	72/71	368	73/72	80/80	76/76	372	80/80	76/76	372	80/80	76/76	372		
			291A	12.4/16.5	34.4/39.7	107/113	110/125	106/111	397/403	111/117	125/125	111/116	401/407	401/407	112/118	125/125	112/117	402/408	116/121	125/125	116/121	125/125	406/412	125/125	116/121	406/412		
			288A+291A	19.9/26.5	55.3/63.8	133/143	150/150	130/139	474/491	137/147	150/150	135/143	478/495	478/495	138/148	150/150	136/145	479/496	142/152	150/175	140/149	150/175	140/149	150/175	140/149	483/500		
			294A	25.2/33.5	69.9/80.6	151/164	175/175	147/158	433/444	155/168	175/175	151/163	437/448	437/448	156/169	200/200	175/175	152/164	438/449	160/173	175/175	157/168	175/175	157/168	175/175	157/168	442/453	
288A+294A	32.7/43.5		90.7/104.7	177/194	200/200	171/186	544/572	181/198	200/200	175/190	548/576	548/576	182/199	200/200	176/192	549/577	549/577	186/203	200/225	181/196	200/225	181/196	200/225	181/196	200/225	181/196	553/581	
291A+294A	37.6/50.0	104.3/120.3	194/183	200/200	187/204	572/604	198/187	200/200	191/208	576/608	576/608	199/188	200/200	192/210	577/609	577/609	203/192	225/200	196/214	225/200	196/214	225/200	196/214	225/200	196/214	581/613		
460-3-60		HIGH	NONE	-	-	76	90	80	402	80	100	85	406	81	100	86	407	84	100	90	411	100	90	411				
			291A	12.4/16.5	34.4/39.7	119/125	125/125	120/126	436/442	123/129	125/150	124/130	440/446	440/446	124/130	125/150	125/131	441/447	127/134	150/150	130/136	150/150	130/136	150/150	130/136	150/150		
			288A+291A	19.9/26.5	55.3/63.8	145/156	175/175	144/154	513/530	149/159	150/175	148/158	517/534	517/534	150/160	150/175	149/159	518/535	153/164	175/175	154/163	175/175	154/163	175/175	154/163	175/175		
			294A	25.2/33.5	69.9/80.6	163/177	175/200	161/173	472/483	167/180	175/200	165/177	476/487	476/487	168/181	175/200	166/178	477/488	172/185	175/200	170/183	175/200	170/183	175/200	170/183	175/200		
			288A+294A	32.7/43.5	90.7/104.7	189/207	200/225	184/201	563/611	193/210	200/225	189/205	587/615	587/615	194/211	200/225	190/206	588/616	198/215	200/225	194/210	200/225	194/210	200/225	194/210	200/225		
		291A+294A	37.6/50.0	104.3/120.3	206/196	225/225	200/219	611/643	210/200	225/225	204/223	615/647	615/647	211/201	225/225	206/224	616/648	215/205	225/225	210/228	225/225	210/228	225/225	210/228	225/225	210/228		
		STD	NONE	-	31	40	32	183	32	40	183	40	34	185	33	40	34	185	35	40	36	187	40	36	187			
			292A	16.5	19.9	55	60	54	203	57	60	56	205	205	58	60	57	205	59	60	59	207	60	59	207			
			288A+292A	26.5	31.9	70	70	68	247	72	80	70	249	249	73	80	71	249	74	80	73	251	80	73	251			
			295A	33.5	40.3	81	90	78	223	83	90	80	225	225	83	90	80	225	85	90	82	227	90	82	227			
288A+295A	43.5		52.3	96	100	92	288	98	100	94	290	290	98	100	94	290	100	100	96	292	100	96	292					
292A+295A	50.0	60.2	91	100	101	303	93	100	103	305	305	93	100	103	305	95	100	105	307	100	105	307						
MED	NONE	-	31	40	32	183	32	40	183	40	34	185	33	40	34	185	35	40	36	187	40	36	187					
	292A	16.5	19.9	55	60	54	203	57	60	56	205	205	58	60	57	205	59	60	59	207	60	59	207					
	288A+292A	26.5	31.9	70	70	68	247	72	80	70	249	249	73	80	71	249	74	80	73	251	80	73	251					
	295A	33.5	40.3	81	90	78	223	83	90	80	225	225	83	90	80	225	85	90	82	227	90	82	227					
	288A+295A	43.5	52.3	96	100	92	288	98	100	94	290	290	98	100	94	290	100	100	96	292	100	96	292					
292A+295A	50.0	60.2	91	100	101	303	93	100	103	305	305	93	100	103	305	95	100	105	307	100	105	307						
HIGH	NONE	-	37	45	39	202	39	45	202	45	41	204	39	45	41	204	41	45	43	206	45	43	206					
	292A	16.5	19.9	62	70	62	222	64	70	64	224	224	64	70	64	224	66	70	66	226	70	66	226					
	288A+292A	26.5	31.9	77	80	76	266	79	80	78	268	268	79	80	78	268	81	90	80	270	90	80	270					
	295A	33.5	40.3	87	90	85	242	89	90	87	244	244	89	90	88	244	91	100	90	246	100	90	246					
	288A+295A	43.5	52.3	102	110	99	307	104	110	101	309	309	104	110	102	309	106	110	104	311	110	104	311					
292A+295A	50.0	60.2	97	100	108	322	99	100	110	324	324	99	100	111	324	101	110	113	326	110	113	326						

See: "Legend and Notes for Tables 1 and 2" on page 21.



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	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. (pwrdr fr/unit)			NO PE.			w/ P.E. (pwrdr fr/unit)			NO PE.			w/ P.E. (pwrdr fr/unit)											
						MCA	FUSE or HACR BRKR	DISC. SIZE	FLA	LRA	MCA	FUSE or HACR BRKR	DISC. SIZE	FLA	LRA	MCA	FUSE or HACR BRKR	DISC. SIZE	FLA	LRA	MCA	FUSE or HACR BRKR	DISC. SIZE	FLA	LRA							
50TCQD14	575-3-60	STD	NONE	-	-	30	27	136	30	32	140	35	32	140	30	28	140	30	29	138	35	33	142	30	28	140	30	29	138	35	33	142
			293A	16.5	15.9	50	45	152	50	50	156	50	50	156	50	48	156	50	47	154	60	52	158	50	48	156	50	47	154	60	52	158
			290A+293A	26.5	25.5	60	56	187	60	61	191	70	62	191	70	60	191	60	58	189	70	63	193	60	60	191	60	58	189	70	63	193
			296A	33.5	32.2	70	64	168	70	69	172	70	68	172	70	68	172	70	66	170	80	70	174	70	68	172	70	66	170	80	70	174
			290A+296A	43.5	41.8	80	75	220	80	80	224	80	82	224	80	80	224	80	77	222	80	82	226	80	80	226	80	77	222	80	82	226
293A+296A	50.0	48.1	80	82	232	80	87	236	80	78	236	80	80	236	80	84	234	80	84	238	80	80	238	80	84	234	80	89	238			
50TCQD14	575-3-60	MED	NONE	-	-	30	27	136	30	32	140	35	32	140	30	28	140	30	29	138	35	33	142	30	28	140	30	29	138	35	33	142
			293A	16.5	15.9	50	45	152	50	50	156	50	50	156	50	48	156	50	47	154	60	52	158	50	48	156	50	47	154	60	52	158
			290A+293A	26.5	25.5	60	56	187	60	61	191	70	62	191	70	60	191	60	58	189	70	63	193	60	60	191	60	58	189	70	63	193
			296A	33.5	32.2	70	64	168	70	69	172	70	68	172	70	68	172	70	66	170	80	70	174	70	68	172	70	66	170	80	70	174
			290A+296A	43.5	41.8	80	75	220	80	80	224	80	82	224	80	80	224	80	77	222	80	82	226	80	80	226	80	77	222	80	82	226
293A+296A	50.0	48.1	80	82	232	80	87	236	80	78	236	80	80	236	80	84	234	80	84	238	80	80	238	80	84	234	80	89	238			
50TCQD14	575-3-60	HIGH	NONE	-	-	35	32	148	35	37	152	40	37	152	40	33	152	40	34	150	40	39	154	40	33	152	40	34	150	40	39	154
			293A	16.5	15.9	60	51	164	60	55	168	60	54	168	60	52	168	60	53	166	60	57	170	60	52	168	60	53	166	60	57	170
			290A+293A	26.5	25.5	70	62	199	70	66	203	70	66	203	70	64	203	70	64	201	70	68	205	70	64	203	70	64	201	70	68	205
			296A	33.5	32.2	80	69	180	80	74	184	80	75	184	80	73	184	80	71	182	80	76	186	80	73	184	80	71	182	80	76	186
			290A+296A	43.5	41.8	90	80	232	90	85	236	90	87	236	90	85	236	90	82	234	90	87	186	90	85	236	90	82	234	90	87	186
293A+296A	50.0	48.1	90	88	244	90	92	248	90	83	248	90	81	248	90	84	246	90	89	186	90	81	248	90	84	246	90	89	186			

See: *Legend and Notes for Tables 1 and 2 * on page 21.

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.

50TCQ*04-14

