50TCQ 3 to 6 Nominal Tons
Single Package Rooftop
Heat Pump
with Puron® (R−410A) Refrigerant
Sizes: 04−07

Carrier
turn to the experts

Electrical Data Supplement

FOR MODELS PRODUCED ON OR AFTER MAY 18, 2015 ONLY!

NOTE: Read the entire instruction manual before starting the installation

This supplement only applies to 50TCQ size 04 to 07 units manufactured on or after May 18, 2015. To confirm the date of manufacture of the unit, locate the unit nameplate and check the first four digits of the Serial Number which is located directly below the unit's Model Number at the top of the nameplate. If the number listed in the first 4 digits of the Serial Number is 2115 or higher KEEP THIS DOCUMENT and use it along with the furnished Installation Instructions.

SERIAL NUMBER NOMENCLATURE

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

Week of manufacture (fiscal calendar)

Year of manufacture ("15" = 2015)

Manufacturing location

Sequence number

C150230

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 07 units manufactured on or after May 18, 2015. Check the first 4 digits of the unit's Serial Number (located on the unit's nameplate) if the number listed is 2115 or higher keep this document.

⚠ 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.

Table 1 – 50TCQ 04-07 Unit Wire/Fuse or HACR Breaker Sizing Data

UNIT	NO M. V–Ph–HZ	IFMTYPE	ELEC. HTR			NO C.O. or UNPWR C.O.								w/ PWRD C.O.							
						NO P.E.				w/ P.E. (pwrd fr/unit)				NO P.E.				w/ P.E. (pwrd fr/unit)			
			CRHEATER***A00	Nom (kW)	FLA	MCA	MAX FUSE or HACR BRKR	DISC. SIZE		MCA	MAX FUSE or HACR BRKR	DISC. SIZE		MCA	MAX FUSE or HACR BRKR	DISC. SIZE		MCA	MAX FUSE or HACR BRKR	DISC. SIZE	
								FLA	LRA			FLA	LRA			FLA	LRA			FLA	LRA
50TCQ*04	208/230–3–60	DD–STD	NONE	–	–	25	30	25	97	27	30	27	99	30	40	30	102	32	40	32	104
			101A	3.3/4.4	9.2/10.6	37/39	45/45	35/37	106/108	39/40	45/50	37/39	108/110	42/43	50/50	41/42	111/113	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	44/47	50/50	43/45	113/115	47/50	50/50	46/48	116/118	49/51	50/60	48/50	118/120
			103B	6.5/8.7	18.1/20.9	48/51	50/60	46/49	115/118	50/53	50/60	48/51	117/120	53/56	60/60	51/54	120/123	55/58	60/60	53/56	122/125
			104B	7.9/10.5	21.9/25.3	53/57	60/60	50/54	119/122	55/59	60/60	52/56	121/124	57/62	60/70	55/59	124/127	59/64	60/70	58/62	126/129
			105A	12.0/16.0	33.4/38.5	67/73	70/80	63/69	130/136	69/75	70/80	65/71	132/138	72/78	80/80	69/75	135/141	74/80	80/80	71/77	137/143
		MED	NONE	–	–	23/23	30/30	22/22	126	25/25	30/30	24/24	128	28/28	40/40	28/27	131	30/29	40/40	30/30	133
			101A	3.3/4.4	9.2/10.6	35/36	45/45	33/34	135/137	36/38	45/45	35/36	137/139	39/41	45/50	38/40	140/142	41/43	50/50	40/42	142/144
			102A	4.9/6.5	13.6/15.6	40/42	45/50	38/40	140/142	42/44	50/50	40/42	142/144	45/47	50/50	43/45	145/147	47/49	50/50	46/47	147/149
			103B	6.5/8.7	18.1/20.9	46/49	50/50	43/46	144/147	48/51	50/60	45/48	146/149	50/54	60/60	49/51	149/152	52/56	60/60	51/54	151/154
			104B	7.9/10.5	21.9/25.3	50/54	50/60	47/51	148/151	52/56	60/60	50/53	150/153	55/59	60/60	53/56	153/156	57/61	60/70	55/59	155/158
			105A	12.0/16.0	33.4/38.5	65/71	70/80	61/66	159/165	67/73	70/80	63/68	161/167	70/76	70/80	66/72	164/170	72/78	80/80	68/74	166/172
		HIGH	NONE	–	–	26/26	30/30	26/26	162	28/28	40/40	28/28	164	31/31	40/40	31/31	167	33/33	45/45	34/33	169
			101A	3.3/4.4	9.2/10.6	38/39	45/45	36/38	171/173	40/41	50/50	39/40	173/175	43/44	50/50	42/43	176/178	44/46	50/50	44/46	178/180
			102A	4.9/6.5	13.6/15.6	43/46	50/50	42/44	176/178	45/48	50/50	44/46	178/180	48/50	50/50	47/49	181/183	50/52	50/60	49/51	183/185
			103B	6.5/8.7	18.1/20.9	49/52	50/60	47/50	180/183	51/54	60/60	49/52	182/185	54/57	60/60	52/55	185/188	56/59	60/60	54/58	187/190
			104B	7.9/10.5	21.9/25.3	54/58	60/60	51/55	184/187	56/60	60/60	53/57	186/189	58/63	60/70	57/60	189/192	60/64	60/70	59/63	191/194
			105A	12.0/16.0	33.4/38.5	68/74	70/80	64/70	195/201	70/76	70/80	66/72	197/203	73/79	80/80	70/76	200/206	75/81	80/90	72/78	202/208
	460–3–60	DD–STD	NONE	–	–	12	15	12	49	13	15	13	50	15	20	15	51	16	20	16	52
			106A	6.0	7.2	21	25	20	56	22	25	22	57	24	25	23	58	25	25	24	59
			107A	8.8	10.6	26	30	24	60	27	30	25	61	28	30	27	62	29	30	28	63
			108A	11.5	13.8	30	30	28	63	31	35	29	64	32	35	30	65	33	35	32	66
			109A	14.0	16.8	33	35	31	66	34	35	33	67	36	40	34	68	37	40	35	69
		MED	NONE	–	–	11	15	10	63	12	15	12	64	13	15	13	65	14	20	14	66
			106A	6.0	7.2	20	20	19	70	21	25	20	71	22	25	21	72	23	25	22	73
			107A	8.8	10.6	24	25	23	74	25	25	24	75	26	30	25	76	27	30	26	77
			108A	11.5	13.8	28	30	26	77	29	30	27	78	30	30	29	79	31	35	30	80
			109A	14.0	16.8	32	35	30	80	33	35	31	81	34	35	32	82	35	35	33	83
		HIGH	NONE	–	–	13	15	12	81	14	15	13	82	15	20	15	83	16	20	16	84
			106A	6.0	7.2	22	25	21	88	23	25	22	89	24	25	23	90	25	25	24	91
			107A	8.8	10.6	26	30	24	92	27	30	26	93	28	30	27	94	29	30	28	95
			108A	11.5	13.8	30	30	28	95	31	35	29	96	32	35	31	97	33	35	32	98
			109A	14.0	16.8	34	35	32	98	35	35	33	99	36	40	34	100	37	40	35	101
	575–3–60	DD–STD	NONE	–	–	10	15	10	35	12	15	12	37	12	15	12	37	14	15	14	39
		MED	NONE	–	–	8	15	7	38	10	15	9	40	9	15	9	40	11	15	11	42
		HIGH	NONE	–	–	8	15	8	42	10	15	10	44	10	15	10	44	12	15	12	46

See: “Legend and Notes for Table 1” on page 6.

Table 1 - 50TCQ 04-07 Unit Wire/Fuse or HACR Breaker Sizing Data (cont)

UNIT	NO M. V-Ph-HZ	IFMTYPE	ELEC. HTR			NO C.O. or UNPWR C.O.								w/ PWRD C.O.							
						NO P.E.				w/ P.E. (pwrd fr/unit)				NO P.E.				w/ P.E. (pwrd fr/unit)			
			CRHEATER***A00	Nom (kW)	FLA	MCA	MAX FUSE or HACR BRKR	DISC. SIZE		MCA	MAX FUSE or HACR BRKR	DISC. SIZE		MCA	MAX FUSE or HACR BRKR	DISC. SIZE		MCA	MAX FUSE or HACR BRKR	DISC. SIZE	
								FLA	LRA			FLA	LRA			FLA	LRA			FLA	LRA
50TCQ*05	208/230-3-60	DD-STD	NONE	–	–	26	30	26	94	28	40	28	96	31	40	32	99	33	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	113/115	50/53	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	117/120	56/59	60/60	55/58	119/122
			105A	12.0/16.0	33.4/38.5	68/75	70/80	64/70	127/133	70/77	70/80	67/72	129/135	73/79	80/80	70/76	132/138	75/81	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	187/200	88/96	90/100	84/92	189/202
		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
			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	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	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	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	218/231
		HIGH	NONE	–	–	27/27	40/40	27/27	159	29/29	40/40	29/29	161	32/32	45/45	33/33	164	34/34	45/45	35/35	166
			102A	4.9/6.5	13.6/15.6	44/47	50/50	43/45	173/175	46/49	50/50	45/47	175/177	49/52	50/60	48/50	178/180	51/54	60/60	50/53	180/182
			103B	6.5/8.7	18.1/20.9	50/54	50/60	48/51	177/180	52/55	60/60	50/53	179/182	55/58	60/60	53/57	182/185	57/60	60/60	56/59	184/187
			105A	12.0/16.0	33.4/38.5	69/76	70/80	66/71	192/198	71/77	80/80	68/73	194/200	74/80	80/80	71/77	197/203	76/82	80/90	73/79	199/205
			104B+104B	15.8/21.0	43.8/50.5	82/91	90/100	78/85	247/260	84/92	90/100	80/87	249/262	87/95	90/100	83/91	252/265	89/97	90/100	85/93	254/267
	460-3-60	DD-STD	NONE	–	–	13	15	13	47	14	20	14	48	15	20	15	49	16	20	16	50
			106A	6.0	7.2	22	25	21	54	23	25	22	55	24	25	23	56	25	25	25	57
			108A	11.5	13.8	30	30	29	61	31	35	30	62	32	35	31	63	33	35	32	64
			109A	14.0	16.8	34	35	32	64	35	35	33	65	36	40	35	66	37	40	36	67
			108A+108A	23.0	27.7	48	50	45	102	49	50	46	103	50	50	47	104	51	60	48	105
		MED	NONE	–	–	12	15	11	61	13	15	12	62	14	15	13	63	15	20	15	64
			106A	6.0	7.2	21	25	19	68	22	25	20	69	23	25	22	70	24	25	23	71
			108A	11.5	13.8	29	30	27	75	30	30	28	76	31	35	29	77	32	35	30	78
			109A	14.0	16.8	33	35	30	78	34	35	31	79	35	35	33	80	36	40	34	81
			108A+108A	23.0	27.7	46	50	43	116	47	50	44	117	48	50	45	118	49	50	46	119
		HIGH	NONE	–	–	13	15	13	79	14	20	14	80	15	20	15	81	16	20	17	82
			106A	6.0	7.2	22	25	21	86	23	25	22	87	24	25	24	88	25	25	25	89
			108A	11.5	13.8	30	30	29	93	31	35	30	94	33	35	31	95	34	35	32	96
			109A	14.0	16.8	34	35	32	96	35	35	33	97	36	40	35	98	37	40	36	99
			108A+108A	23.0	27.7	48	50	45	134	49	50	46	135	50	50	47	136	51	60	48	137
	575-3-60	DD-STD	NONE	–	–	11	15	11	39	13	15	13	41	13	15	13	41	15	20	15	43
		MED	NONE	–	–	9	15	8	42	11	15	10	44	10	15	10	44	12	15	12	46
		HIGH	NONE	–	–	9	15	9	46	11	15	11	48	11	15	10	48	13	15	13	50

See: “Legend and Notes for Table 1” on page 6.

Table 1 – 50TCQ 04–07 Unit Wire/Fuse or HACR Breaker Sizing Data (cont)

UNIT	NO M. V–Ph–HZ	IFMTYPE	ELEC. HTR			NO C.O. or UNPWR C.O.								w/ PWRD C.O.							
						NO P.E.				w/ P.E. (pwrd fr/unit)				NO P.E.				w/ P.E. (pwrd fr/unit)			
			CRHEATER***A00	Nom (kW)	FLA	MCA	MAX FUSE or HACR BRKR	DISC. SIZE		MCA	MAX FUSE or HACR BRKR	DISC. SIZE		MCA	MAX FUSE or HACR BRKR	DISC. SIZE		MCA	MAX FUSE or HACR BRKR	DISC. SIZE	
								FLA	LRA			FLA	LRA			FLA	LRA			FLA	LRA
50TCQ*06	208/230–3–60	DD–STD	NONE	–	–	29	40	28	121	31	45	30	123	34	45	34	126	36	50	36	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	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	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	161/167
			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
		MED	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	193
			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
			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
		HIGH	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	193
			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
			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
	460–3–60	DD–STD	NONE	–	–	15	20	14	58	16	20	16	59	17	20	17	60	18	25	18	61
			106A	6.0	7.2	24	25	23	65	25	30	24	66	26	30	25	67	27	30	26	68
			108A	11.5	13.8	32	35	30	72	33	35	31	73	34	35	33	74	35	35	34	75
			109A	14.0	16.8	36	40	34	75	37	40	35	76	38	40	36	77	39	40	37	78
			108A+108A	23.0	27.7	50	50	46	113	51	60	47	114	52	60	49	115	53	60	50	116
			108A+109A	25.5	30.7	53	60	50	119	54	60	51	120	55	60	52	121	56	60	53	122
		MED	NONE	–	–	15	20	15	90	16	20	16	91	17	20	17	92	18	25	18	93
			106A	6.0	7.2	24	25	23	97	25	30	24	98	26	30	25	99	27	30	27	100
			108A	11.5	13.8	32	35	30	104	33	35	32	105	35	35	33	106	36	40	34	107
			109A	14.0	16.8	36	40	34	107	37	40	35	108	38	40	36	109	39	40	38	110
			108A+108A	23.0	27.7	50	50	46	145	51	60	48	146	52	60	49	147	53	60	50	148
			108A+109A	25.5	30.7	53	60	50	151	54	60	51	152	56	60	52	153	57	60	54	154
		HIGH	NONE	–	–	15	20	15	90	16	20	16	91	17	20	17	92	18	25	18	93
			106A	6.0	7.2	24	25	23	97	25	30	24	98	26	30	25	99	27	30	27	100
			108A	11.5	13.8	32	35	30	104	33	35	32	105	35	35	33	106	36	40	34	107
			109A	14.0	16.8	36	40	34	107	37	40	35	108	38	40	36	109	39	40	38	110
			108A+108A	23.0	27.7	50	50	46	145	51	60	48	146	52	60	49	147	53	60	50	148
			108A+109A	25.5	30.7	53	60	50	151	54	60	51	152	56	60	52	153	57	60	54	154
	575–3–60	DD–STD	NONE	–	–	12	15	12	45	14	20	14	47	14	15	14	47	16	20	16	49
		MED	NONE	–	–	10	15	10	52	12	15	12	54	12	15	12	54	14	15	14	56
		HIGH	NONE	–	–	11	15	11	63	13	15	13	65	13	15	13	65	15	20	15	67

See: “Legend and Notes for Table 1” on page 6.

Table 1 - 50TCQ 04-07 Unit Wire/Fuse or HACR Breaker Sizing Data (cont)

UNIT	NO M. V-Ph-HZ	IFMTYPE	ELEC. HTR			NO C.O. or UNPWR C.O.								w/ PWRD C.O.							
						NO P.E.				w/ P.E. (pwrd fr/unit)				NO P.E.				w/ P.E. (pwrd fr/unit)			
			CRHEATER***A00	Nom (kW)	FLA	MCA	MAX FUSE or HACR BRKR	DISC. SIZE		MCA	MAX FUSE or HACR BRKR	DISC. SIZE		MCA	MAX FUSE or HACR BRKR	DISC. SIZE		MCA	MAX FUSE or HACR BRKR	DISC. SIZE	
								FLA	LRA			FLA	LRA			FLA	LRA			FLA	LRA
50TCQ*07	208/230-3-60	STD	NONE	–	–	32	50	30	159	34	50	32	161	36	50	36	164	38	50	38	166
			102A	4.9/6.5	13.6/15.6	49/51	60/60	46/48	173/175	51/53	60/60	48/50	175/177	53/56	60/60	51/54	178/180	55/58	60/60	54/56	180/182
			104B	7.9/10.5	21.9/25.3	59/63	60/70	55/59	181/184	61/65	70/70	58/62	183/186	64/68	70/80	61/65	186/189	66/70	70/80	63/67	188/191
			105A	12.0/16.0	33.4/38.5	73/80	80/80	69/75	192/198	75/82	80/90	71/77	194/200	78/85	80/90	74/80	197/203	80/86	80/90	76/82	199/205
			104B+104B	15.8/21.0	43.8/50.5	86/95	90/100	81/88	247/260	88/97	90/100	83/91	249/262	91/100	100/100	86/94	252/265	93/101	100/110	88/96	254/267
			104B+105A	19.9/26.5	55.2/63.8	101/111	110/125	94/104	269/287	103/113	110/125	96/106	271/289	105/116	110/125	99/109	274/292	107/118	110/125	101/111	276/294
		MED	NONE	–	–	35/35	50/50	34/34	212	37/37	50/50	36/36	214	40/40	50/50	39/39	217	42/41	60/60	42/42	219
			102A	4.9/6.5	13.6/15.6	52/54	60/60	50/52	226/228	54/56	60/60	52/54	228/230	57/59	60/60	55/57	231/233	59/61	60/70	57/59	233/235
			104B	7.9/10.5	21.9/25.3	62/66	70/70	59/63	234/237	64/68	70/80	61/65	236/239	67/71	80/80	65/68	239/242	69/73	80/80	67/71	241/244
			105A	12.0/16.0	33.4/38.5	77/83	80/90	72/78	245/251	79/85	80/90	75/80	247/253	81/88	90/90	78/84	250/256	83/90	90/90	80/86	252/258
			104B+104B	15.8/21.0	43.8/50.5	90/98	90/100	84/92	300/313	92/100	100/100	86/94	302/315	94/103	100/110	90/97	305/318	96/105	100/110	92/100	307/320
			104B+105A	19.9/26.5	55.2/63.8	104/115	110/125	97/107	322/340	106/116	110/125	100/109	324/342	109/119	110/125	103/113	327/345	111/121	125/125	105/115	329/347
		HIGH	NONE	–	–	35/35	50/50	34/34	212	37/37	50/50	36/36	214	40/40	50/50	39/39	217	42/41	60/60	42/42	219
			102A	4.9/6.5	13.6/15.6	52/54	60/60	50/52	226/228	54/56	60/60	52/54	228/230	57/59	60/60	55/57	231/233	59/61	60/70	57/59	233/235
			104B	7.9/10.5	21.9/25.3	62/66	70/70	59/63	234/237	64/68	70/80	61/65	236/239	67/71	80/80	65/68	239/242	69/73	80/80	67/71	241/244
			105A	12.0/16.0	33.4/38.5	77/83	80/90	72/78	245/251	79/85	80/90	75/80	247/253	81/88	90/90	78/84	250/256	83/90	90/90	80/86	252/258
			104B+104B	15.8/21.0	43.8/50.5	90/98	90/100	84/92	300/313	92/100	100/100	86/94	302/315	94/103	100/110	90/97	305/318	96/105	100/110	92/100	307/320
			104B+105A	19.9/26.5	55.2/63.8	104/115	110/125	97/107	322/340	106/116	110/125	100/109	324/342	109/119	110/125	103/113	327/345	111/121	125/125	105/115	329/347
	460-3-60	STD	NONE	–	–	14	20	13	77	15	20	14	78	16	20	16	79	17	25	17	80
			106A	6.0	7.2	23	25	22	84	24	30	23	85	25	30	24	86	26	30	25	87
			108A	11.5	13.8	31	35	29	91	32	35	30	92	34	35	32	93	35	35	33	94
			109A	14.0	16.8	35	35	33	94	36	40	34	95	37	40	35	96	38	40	36	97
			108A+108A	23.0	27.7	49	50	45	132	50	50	46	133	51	60	48	134	52	60	49	135
			108A+109A	25.5	30.7	52	60	49	138	53	60	50	139	55	60	51	140	56	60	52	141
		MED	NONE	–	–	16	20	15	104	17	20	16	105	18	25	18	106	19	25	19	107
			106A	6.0	7.2	25	30	23	111	26	30	25	112	27	30	26	113	28	30	27	114
			108A	11.5	13.8	33	35	31	118	34	35	32	119	35	35	34	120	36	40	35	121
			109A	14.0	16.8	37	40	35	121	38	40	36	122	39	40	37	123	40	40	38	124
			108A+108A	23.0	27.7	50	50	47	159	51	60	48	160	53	60	50	161	54	60	51	162
			108A+109A	25.5	30.7	54	60	50	165	55	60	52	166	56	60	53	167	57	60	54	168
		HIGH	NONE	–	–	16	20	15	104	17	20	16	105	18	25	18	106	19	25	19	107
			106A	6.0	7.2	25	30	23	111	26	30	25	112	27	30	26	113	28	30	27	114
			108A	11.5	13.8	33	35	31	118	34	35	32	119	35	35	34	120	36	40	35	121
			109A	14.0	16.8	37	40	35	121	38	40	36	122	39	40	37	123	40	40	38	124
			108A+108A	23.0	27.7	50	50	47	159	51	60	48	160	53	60	50	161	54	60	51	162
			108A+109A	25.5	30.7	54	60	50	165	55	60	52	166	56	60	53	167	57	60	54	168
	575-3-60	STD	NONE	–	–	11	15	10	64	13	15	12	66	13	15	12	66	15	20	14	68
		MED	NONE	–	–	12	15	12	79	14	20	14	81	14	15	13	81	16	20	16	83
		HIGH	NONE	–	–	12	15	12	79	14	20	14	81	14	15	13	81	16	20	16	83

See: “Legend and Notes for Table 1” on page 6.

Legend and Notes for Table 1

LEGEND:

BRKR	–	Circuit breaker
CO	–	Convenience outlet
DD	–	Direct drive (indoor fan motor)
DISC	–	Disconnect
FLA	–	Full load amps
IFM	–	Indoor fan motor
LRA	–	Locked rotor amps
MCA	–	Minimum circuit amps
MOCP	–	MAX FUSE or HACR Breaker
PE	–	Power exhaust
PWRD CO	–	Powered convenient outlet
UNPWR CO	–	Unpowered convenient outlet

NOTES:

1. 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

$$\text{Average Voltage} = \frac{(224 + 231 + 226)}{3} = \frac{681}{3}$$

$$= 227$$

Determine maximum deviation from average voltage.
(AB) 227 – 224 = 3 v
(BC) 231 – 227 = 4 v
(AC) 227 – 226 = 1 v
Maximum deviation is 4 v.
Determine percent of voltage imbalance.

$$\% \text{ Voltage Imbalance} = 100 \times \frac{4}{227}$$

$$= 1.76\%$$

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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