

**48/50HC 3 to 5 Nominal Tons
Single Package Rooftop
Gas Heating/Electric Cooling Unit
& Cooling Only/Electric Heat Unit
with Puron® (R-410A) Refrigerant
Sizes: 04-06**



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 48/50HC size 04 to 06 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)	Sequence number
Year of manufacture ("15" = 2015)	Manufacturing location

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.

C150230

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 48/50HC size 04 to 06 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 – 48HC 04-06 Unit Wire/Fuse or HACR Breaker Sizing Data

UNIT	NOM. V-Ph-Hz	IFM TYPE	NO C.O. or UNPWR C.O.						w/ PWRD C.O.							
			NO PE.			w/ PE. (pwrdr fr/ unit)			NO PE.			w/ PE. (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		
48HC*A04	208/230-1-60	DD-STD	30	45	29	88	32	45	31	90	34	36	50	36	95	
		STD	27	40	26	93	29	45	28	95	31	34	45	34	100	
		MED	27	40	26	93	29	45	28	95	31	34	45	34	100	
		DD-STD	22	30	22	82	24	30	24	84	27	29	35	29	89	
		STD	20	25	19	94	22	30	21	96	24	26	30	27	101	
	460-3-60	MED	20/19	25/25	19/19	111	22/21	30/30	21/21	113	24/24	25/24	26/26	30/30	27/26	118
		HIGH	23/23	30/30	23/23	147	25/25	30/30	25/25	149	28/28	28/28	30/29	35/35	30/30	154
		DD-STD	12	15	12	43	13	15	13	44	14	14	15	20	16	46
		STD	11	15	10	48	12	15	11	49	13	13	14	20	14	51
		MED	11	15	10	57	12	15	11	58	13	13	14	15	14	60
48HC*A05	208/230-1-60	HIGH	12	15	12	75	13	15	13	76	15	16	20	16	78	
		DD-STD	10	15	10	42	12	15	12	44	11	12	13	15	14	46
		STD	7	15	6	45	9	15	9	47	9	8	11	15	10	49
		MED	7	15	6	45	9	15	9	47	9	8	11	15	10	49
		HIGH	8	15	7	49	10	15	9	51	9	9	11	15	11	53
	460-3-60	DD-STD	37	50	35	127	38	50	37	129	41	43	60	43	134	
		STD	34	50	32	132	36	50	35	134	39	41	60	40	139	
		MED	34	50	32	132	36	50	35	134	39	41	60	40	139	
		DD-STD	26	30	26	93	28	40	28	95	31	31	45	34	100	
		STD	24	30	23	105	26	30	26	107	29	29	40	31	112	
48HC*A05	208/230-3-60	MED	24/24	30/30	23/23	122	26/26	30/30	26/25	124	29/29	31/31	40/40	31/31	129	
		HIGH	27/27	40/40	27/27	158	29/29	40/40	29/29	160	32/32	34/34	45/45	35/35	165	
		DD-STD	13	15	13	47	14	20	14	48	15	16	20	16	50	
		STD	12	15	11	52	13	15	12	53	14	15	20	15	55	
		MED	12	15	11	61	13	15	12	62	14	15	20	15	64	
	575-3-60	HIGH	13	15	13	79	14	20	14	80	16	17	20	17	82	
		DD-STD	11	15	11	39	13	15	13	41	13	13	15	20	15	43
		STD	9	15	8	42	10	15	10	44	10	12	15	12	46	
		MED	9	15	8	42	11	15	11	44	11	13	15	13	46	
		HIGH	10	15	10	57	12	15	12	59	12	14	15	14	61	

See: "Legend and Notes for Tables 1 - 4" on page 18.

Table 1 - 48HC 04-06 Unit Wire/Fuse or HACR Breaker Sizing Data (cont)

UNIT	NOM. V-Ph-Hz	IFM TYPE	NO C.O. or UNPWR C.O.						w/ PWRD C.O.									
			NO PE.			w/ PE. (pwrdr fr/ unit)			NO PE.			w/ PE. (pwrdr fr/ unit)						
			MCA	MAX FUSE or HACR BRKR	DISC. SIZE FLA LRA	MCA	MAX FUSE or HACR BRKR	DISC. SIZE FLA LRA	MCA	MAX FUSE or HACR BRKR	DISC. SIZE FLA LRA	MCA	MAX FUSE or HACR BRKR	DISC. SIZE FLA LRA				
48HC*A06	208/230-1-60	DD-STD	41	60	39	144	42	60	41	146	45	60	44	149	47	60	47	151
		STD	38	60	36	149	40	60	38	151	43	60	42	154	45	60	44	156
		MED	40	60	38	174	42	60	41	176	45	60	44	179	47	60	46	181
	208/230-3-60	DD-STD	29	40	28	120	31	45	31	122	34	45	34	125	36	50	36	127
		STD	27	40	26	132	29	40	28	134	32	45	31	137	34	45	34	139
		MED	30/30	45/45	30/29	185	32/32	45/45	32/32	187	35/35	50/50	35/35	190	37/37	50/50	37/37	192
48HC*A06	460-3-60	HIGH	30/30	45/45	30/29	185	32/32	45/45	32/32	187	35/35	50/50	35/35	190	37/37	50/50	37/37	192
		DD-STD	14	20	14	58	15	20	15	59	16	20	16	60	17	20	17	61
		STD	13	15	12	63	14	20	13	64	15	20	15	65	16	20	16	66
	575-3-60	MED	14	20	14	90	15	20	15	91	17	20	16	92	18	20	18	93
		HIGH	14	20	14	90	15	20	15	91	17	20	16	92	18	20	18	93
		DD-STD	12	15	12	46	14	15	14	48	13	15	13	48	15	20	16	50
575-3-60	STD	9	15	8	49	11	15	10	51	11	15	10	51	13	15	12	53	
	MED	10	15	9	53	12	15	11	55	11	15	11	55	13	15	13	57	
	HIGH	11	15	10	64	12	15	12	66	12	15	12	66	14	15	14	68	

See: "Legend and Notes for Tables 1 - 4" on page 18.

Table 2 – 48HC 04-06 Unit Wire Sizing Data with Factory Installed HACR Breaker

UNIT	NOM. V-Ph-Hz	IFM TYPE	NO C.O. or UNPWR C.O.												w/ PWRD C.O.											
			NO PE.						w/ PE. (pwrd fr/ unit)						NO PE.						w/ PE. (pwrd fr/ unit)					
			MCA	HACR BRKR	FLA	DISC. SIZE	LRA	MCA	HACR BRKR	FLA	DISC. SIZE	LRA	MCA	HACR BRKR	FLA	DISC. SIZE	LRA	MCA	HACR BRKR	FLA	DISC. SIZE	LRA				
48HC*A04	208/230-1-60	DD-STD	30	45	29	88	32	45	31	90	34	50	34	34	93	36	50	36	34	95	36	50	36	36	95	
		STD	27	40	26	93	29	45	28	95	32	45	31	98	34	34	45	34	34	100	34	45	34	34	100	
		MED	27	40	26	93	29	45	28	95	32	45	31	98	34	34	45	34	34	100	34	45	34	34	100	
		DD-STD	22	30	22	82	24	30	24	84	27	30	27	29	29	87	29	35	29	29	89	29	35	29	29	89
		STD	20	25	19	94	22	30	21	96	24	30	25	99	26	26	30	30	27	27	101	27	30	27	27	101
		MED	20/20	25/25	19/19	111	22/22	30/30	21/21	113	24/24	30/30	25/24	116	26/26	30/30	27/26	30/30	27/26	30/30	118	27/26	30/30	27/26	30/30	118
	460-3-60	HIGH	23/23	30/30	23/23	147	25/25	30/30	25/25	149	28/28	30/30	28/28	152	30/30	35/35	30/30	35/35	30/30	154	30/30	35/35	30/30	30/30	154	
		DD-STD	12	15	12	43	13	15	13	44	14	20	14	45	15	20	16	20	16	46	15	20	16	16	46	
		STD	11	15	10	48	12	15	11	49	13	15	13	50	14	20	14	20	14	51	14	20	14	14	51	
		MED	11	15	10	57	12	15	11	58	13	15	13	59	14	20	14	20	14	60	14	20	14	14	60	
		HIGH	12	15	12	75	13	15	13	76	15	20	15	77	16	20	16	20	16	78	16	20	16	16	78	
		DD-STD	10	15	10	42	12	15	12	44	11	15	12	44	11	15	14	15	14	46	11	15	14	14	46	
48HC*A05	208/230-1-60	STD	7	15	6	45	9	15	9	47	9	15	9	47	8	15	10	8	49	8	15	10	8	49		
		MED	7	15	6	45	9	15	9	47	9	15	9	47	8	15	10	8	49	8	15	10	8	49		
		HIGH	8	15	7	49	10	15	9	51	11	15	9	51	11	15	11	11	53	11	15	11	11	53		
		DD-STD	37	50	35	127	38	50	37	129	41	60	41	132	43	60	43	60	43	134	43	60	43	43	134	
		STD	34	50	32	132	36	50	35	134	39	60	38	137	41	60	40	40	139	41	60	40	40	139		
		MED	34	50	32	132	36	50	35	134	39	60	38	137	41	60	40	40	139	41	60	40	40	139		
	208/230-3-60	DD-STD	26	30	26	93	28	40	28	95	31	40	31	98	33	45	34	45	34	100	33	45	34	34	100	
		STD	24	30	23	105	26	30	26	107	29	40	29	110	31	40	31	40	31	112	31	40	31	31	112	
		MED	24/24	30/30	23/23	122	26/26	30/30	26/25	124	29/29	40/40	29/29	127	31/31	40/40	31/31	40/40	31/31	129	31/31	40/40	31/31	31/31	129	
		HIGH	27/27	40/40	27/27	158	29/29	40/40	29/29	160	32/32	45/45	33/32	163	34/34	45/45	35/35	45/45	35/35	165	34/34	45/45	35/35	35/35	165	
		DD-STD	13	15	13	47	14	20	14	48	15	20	15	49	16	20	16	20	16	50	16	20	16	16	50	
		STD	12	15	11	52	13	15	12	53	14	20	14	54	15	20	15	20	15	55	15	20	15	15	55	
460-3-60	MED	12	15	11	61	13	15	12	62	14	20	14	63	15	20	15	20	15	64	15	20	15	15	64		
	HIGH	13	15	13	79	14	20	14	80	16	20	16	81	17	20	17	20	17	82	17	20	17	17	82		
	DD-STD	11	15	11	39	13	15	13	41	13	15	13	41	13	15	13	15	13	43	13	15	13	13	43		
	STD	9	15	8	42	10	15	10	44	10	15	10	44	10	15	12	15	12	46	10	15	12	12	46		
	MED	9	15	8	42	10	15	10	44	10	15	10	44	10	15	12	15	12	46	10	15	12	12	46		
	HIGH	10	15	10	57	12	15	12	59	12	15	12	59	12	15	14	15	14	61	12	15	14	14	61		

See: "Legend and Notes for Tables 1 - 4" on page 18.

Table 2 - 48HC 04-06 Unit Wire Sizing Data with Factory Installed HACR Breaker (cont)

UNIT	NOM. V-Ph-Hz	IFM TYPE	NO C.O. or UNPWR C.O.												w/ PWRD C.O.											
			NO PE.						w/ PE. (pwrd fr/ unit)						NO PE.						w/ PE. (pwrd fr/ unit)					
			MCA	HACR BRKR	FLA	DISC. SIZE	LRA	MCA	HACR BRKR	FLA	DISC. SIZE	LRA	MCA	HACR BRKR	FLA	DISC. SIZE	LRA	MCA	HACR BRKR	FLA	DISC. SIZE	LRA				
48HC*A06	208/230-1-60	DD-STD	41	60	39	144	42	60	41	146	45	60	44	149	47	60	47	151	47	151	47	60	47	151		
		STD	38	60	36	149	40	60	38	151	43	60	42	154	45	60	44	156	45	156	44	60	44	156		
		MED	40	60	38	174	42	60	41	176	45	60	44	179	47	60	46	181	47	181	46	60	46	181		
	208/230-3-60	DD-STD	29	40	28	120	31	45	31	122	34	45	34	125	36	50	36	127	36	127	36	50	36	127		
		STD	27	40	26	132	29	40	28	134	32	45	31	137	34	45	34	139	34	139	34	45	34	139		
		MED	30/30	45/45	30/29	185	32/32	45/45	32/32	187	35/35	50/50	35/35	190	37/37	50/50	37/37	192	37/37	192	37/37	50/50	37/37	192		
460-3-60	HIGH	30/30	45/45	30/29	185	32/32	45/45	32/32	187	35/35	50/50	35/35	190	37/37	50/50	37/37	192	37/37	192	37/37	50/50	37/37	192			
	DD-STD	14	20	14	58	15	20	15	59	16	20	16	60	17	20	17	61	17	61	17	20	17	61			
	STD	13	15	12	63	14	20	13	64	15	20	15	65	16	20	16	66	16	66	16	20	16	66			
575-3-60	MED	14	20	14	90	15	20	15	91	17	20	16	92	18	20	18	93	18	93	18	20	18	93			
	HIGH	14	20	14	90	15	20	15	91	17	20	16	92	18	20	18	93	18	93	18	20	18	93			
	DD-STD	12	15	12	46	14	15	14	48	13	15	13	48	15	20	16	50	15	50	16	20	16	50			
575-3-60	STD	9	15	8	49	11	15	10	51	11	15	10	51	13	15	12	53	13	53	12	15	12	53			
	MED	10	15	9	53	12	15	11	55	11	15	11	55	13	15	13	57	13	57	13	15	13	57			
	HIGH	11	15	10	64	12	15	12	66	12	15	12	66	14	15	14	68	14	68	14	15	14	68			

See: "Legend and Notes for Tables 1 - 4" on page 18.

Table 3 – 50HC 04-06 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	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
50HC-A04		NONE	-	-	30	45	29	88	32	45	31	90	34	93	36	95
		101A	3.3/4.4	15.9/18.3	30/33	45/45	29/30	88/88	32/35	45/45	31/32	90/90	34/35	93/93	36/37	95/95
		102A	4.9/6.5	23.5/27.1	39/44	45/45	36/40	88/88	41/46	45/50	38/42	90/90	41/45	93/93	43/47	95/95
		103B	6.5/8.7	31.4/36.3	49/55	50/60	45/50	88/88	51/57	60/60	47/52	90/90	50/56	93/93	52/58	95/95
		104B	7.9/10.5	37.9/43.8	57/64	60/70	52/59	88/88	59/67	60/70	54/61	90/90	63/70	93/93	60/67	95/95
		102A+102A	9.8/13.0	46.9/54.2	68/77	70/80	62/71	88/88	71/80	80/80	65/73	90/90	68/76	93/93	70/79	95/95
		NONE	-	-	27	40	26	93	29	45	28	95	31	98	34	100
		101A	3.3/4.4	15.9/18.3	27/29	40/40	26/27	93/93	29/32	45/45	28/29	95/95	31/32	98/98	34/34	100/100
		102A	4.9/6.5	23.5/27.1	36/40	40/45	33/37	93/93	38/43	45/45	35/39	95/95	38/42	98/98	40/45	100/100
		103B	6.5/8.7	31.4/36.3	46/52	50/60	42/47	93/93	48/54	50/60	44/50	95/95	47/53	98/98	49/55	100/100
		104B	7.9/10.5	37.9/43.8	54/61	60/70	49/56	93/93	56/64	60/70	51/58	95/95	55/62	98/98	57/64	100/100
		102A+102A	9.8/13.0	46.9/54.2	65/74	70/80	60/68	93/93	68/77	70/80	62/70	95/95	65/73	98/98	67/76	100/100
		NONE	-	-	22	30	22	82	24	45	28	84	27	87	29	89
		101A	3.3/4.4	15.9/18.3	22/23	30/30	22/22	82/82	24/25	45/45	28/29	84/84	27/29	87/87	29/29	89/89
		102A	4.9/6.5	23.5/27.1	27/29	30/30	24/26	82/82	29/32	30/35	26/29	84/84	30/32	87/87	32/34	89/89
103B	6.5/8.7	31.4/36.3	32/36	35/40	29/33	82/82	35/38	35/40	32/35	84/84	35/38	87/87	37/40	89/89		
104B	7.9/10.5	37.9/43.8	37/41	40/45	34/38	82/82	39/44	40/45	36/40	84/84	39/43	87/87	41/45	89/89		
105A	12.0/16.0	33.4/38.5	51/58	60/60	47/53	82/82	54/60	60/60	49/55	84/84	52/58	87/87	55/60	89/89		
NONE	-	-	20	25	19	94	22	30	21	96	24	99	27	101		
101A	3.3/4.4	15.9/18.3	20/20	25/25	19/19	94/94	22/23	30/30	21/21	96/96	24/26	99/99	27/27	101/101		
102A	4.9/6.5	23.5/27.1	24/26	25/30	22/24	94/94	26/29	30/30	24/26	96/96	30/32	99/99	29/32	101/101		
103B	6.5/8.7	31.4/36.3	30/33	30/35	27/30	94/94	32/35	35/40	29/32	96/96	36/39	99/99	35/38	101/101		
104B	7.9/10.5	37.9/43.8	34/39	35/40	31/35	94/94	37/41	40/45	33/37	96/96	40/45	99/99	39/43	101/101		
105A	12.0/16.0	33.4/38.5	49/55	50/60	44/50	94/94	51/57	60/60	47/52	96/96	55/61	99/99	52/58	101/101		
NONE	-	-	23/23	25/25	19/19	111	22/21	30/30	21/21	113	24/24	30/30	25/24	118		
101A	3.3/4.4	15.9/18.3	20/20	25/25	19/19	111/111	22/22	30/30	21/21	113/113	24/26	30/30	25/24	118/118		
102A	4.9/6.5	23.5/27.1	24/26	25/30	22/24	111/111	26/28	30/30	24/26	113/113	30/32	30/35	27/29	118/118		
103B	6.5/8.7	31.4/36.3	30/33	30/35	27/30	111/111	32/35	35/35	29/32	113/113	36/39	40/40	32/35	118/118		
104B	7.9/10.5	37.9/43.8	34/38	35/40	31/35	111/111	37/41	40/45	33/37	113/113	40/44	40/45	37/40	118/118		
105A	12.0/16.0	33.4/38.5	49/55	50/60	44/50	111/111	51/57	60/60	47/52	113/113	55/61	60/70	50/55	118/118		
NONE	-	-	23/23	25/25	19/19	147	25/25	30/30	25/25	149	28/28	30/30	28/28	154		
101A	3.3/4.4	15.9/18.3	23/24	30/30	23/23	147/147	25/26	30/30	25/25	149/149	28/30	30/30	28/28	154/154		
102A	4.9/6.5	23.5/27.1	28/30	30/30	25/27	147/147	30/33	30/35	27/30	149/149	34/36	36/39	31/33	154/154		
103B	6.5/8.7	31.4/36.3	34/37	35/40	30/34	147/147	36/39	40/40	33/36	149/149	40/43	40/45	36/39	154/154		
104B	7.9/10.5	37.9/43.8	38/42	40/45	35/39	147/147	41/45	45/45	37/41	149/149	44/48	45/50	40/44	154/154		
105A	12.0/16.0	33.4/38.5	53/59	60/60	48/54	147/147	55/61	60/70	50/56	149/149	59/65	60/70	54/59	154/154		

See: "Legend and Notes for Tables 1 - 4" on page 18.

Table 3 - 50HC 04-06 Unit Wire/Fuse or HACR Breaker Sizing Data (cont)

UNIT	NO M, V-Pn-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	MAX FUSE or HACR BRKR	FLA	DISC. SIZE	LRA	MCA	MAX FUSE or HACR BRKR	FLA	DISC. SIZE	LRA	MCA	MAX FUSE or HACR BRKR	FLA	DISC. SIZE	LRA	MCA	MAX FUSE or HACR BRKR	FLA	DISC. SIZE	LRA							
50HC-A04	460-3-60	DD-STD	NONE	-	-	12	43	13	44	15	15	13	44	14	20	20	14	45	15	20	16	46	20	20	14	45	15	20	16	46		
			106A	6.0	7.2	13	43	14	44	15	15	14	44	16	44	20	20	15	45	18	20	17	46	20	20	15	45	18	20	17	46	
			107A	8.8	10.6	17	43	20	44	21	20	18	44	20	44	25	25	19	45	23	20	19	46	25	20	19	45	23	20	19	46	
			108A	11.5	13.8	20	43	24	44	25	25	22	44	24	44	25	25	23	45	27	24	23	46	30	24	23	45	27	24	23	46	
		109A	14.0	16.8	24	43	28	44	29	30	25	44	28	44	30	30	26	45	30	27	27	46	30	28	26	45	30	27	27	46		
		NONE	-	-	10	48	12	49	13	15	15	11	49	13	15	15	13	50	14	14	20	14	51	20	20	13	50	14	20	14	51	
		106A	6.0	7.2	11	48	14	49	15	15	11	49	14	49	15	15	14	50	17	17	20	15	51	20	20	14	50	17	20	15	51	
		107A	8.8	10.6	15	48	18	48	20	20	16	49	18	48	20	20	18	50	21	21	25	19	51	25	20	18	50	21	25	19	51	
		108A	11.5	13.8	19	48	22	48	24	25	19	49	22	48	24	25	21	50	25	25	25	21	51	25	23	21	50	25	23	21	51	
		109A	14.0	16.8	22	48	26	49	27	30	23	49	26	49	27	30	25	50	29	29	30	25	51	30	26	25	50	29	30	26	51	
50HC-A04	460-3-60	MED	NONE	-	-	10	57	11	58	15	15	11	58	13	15	13	59	14	14	20	14	60	15	15	13	59	14	15	14	60		
			106A	6.0	7.2	11	57	14	58	15	15	11	58	14	58	15	15	14	59	17	17	20	15	60	20	18	59	17	20	15	60	
			107A	8.8	10.6	15	57	18	58	20	20	16	58	18	58	20	20	18	59	21	21	25	19	60	20	18	59	21	25	19	60	
			108A	11.5	13.8	19	57	22	58	24	25	19	58	22	58	24	25	21	59	25	25	25	21	60	25	22	21	59	25	22	21	60
		109A	14.0	16.8	22	57	26	58	27	30	23	58	26	58	27	30	25	59	29	29	30	25	60	30	26	25	59	29	30	26	60	
		NONE	-	-	12	75	13	76	15	15	13	76	15	76	15	15	13	77	16	16	20	16	78	20	20	15	77	16	20	16	78	
		106A	6.0	7.2	13	75	16	76	17	17	14	76	16	76	17	17	14	77	19	19	20	17	78	20	20	16	77	19	20	17	78	
		107A	8.8	10.6	17	75	20	76	22	25	18	76	20	76	22	25	20	77	23	23	25	20	78	25	21	20	77	23	25	21	78	
		108A	11.5	13.8	21	75	24	76	26	30	21	76	24	76	26	30	23	77	27	27	30	23	78	30	24	23	77	27	30	24	78	
		109A	14.0	16.8	24	75	28	76	29	30	24	76	28	76	29	30	25	77	31	31	35	27	78	35	28	27	77	31	35	28	78	
575-3-60	575-3-60	DD-STD	NONE	-	-	10	42	12	44	15	15	12	44	11	15	12	44	11	15	15	12	44	11	15	12	44	11	15	14	46		
			297A	9.2	9.2	15	42	19	44	20	20	17	44	19	44	20	20	17	44	21	21	25	19	46	20	20	17	44	21	25	19	46
			298A	13.8	13.8	20	42	25	44	25	25	23	44	25	44	25	25	22	44	27	27	30	22	46	25	25	22	44	27	30	25	46
			NONE	-	-	6	45	9	47	15	15	9	47	9	47	9	15	8	47	11	15	10	49	15	10	8	47	11	15	10	49	
		297A	9.2	9.2	12	45	16	47	20	20	14	47	16	47	16	20	14	47	18	20	16	49	20	16	14	47	18	20	16	49		
		298A	13.8	13.8	17	45	22	47	25	25	19	47	21	47	21	25	19	47	24	25	21	49	25	21	19	47	24	25	21	49		
		NONE	-	-	6	45	9	47	15	15	9	47	9	47	9	15	8	47	11	15	10	49	15	10	8	47	11	15	10	49		
		297A	9.2	9.2	12	45	16	47	20	20	14	47	16	47	16	20	14	47	18	20	16	49	20	16	14	47	18	20	16	49		
		298A	13.8	13.8	17	45	22	47	25	25	19	47	21	47	21	25	19	47	24	25	21	49	25	21	19	47	24	25	21	49		
		NONE	-	-	7	49	10	51	15	15	9	51	9	51	9	15	9	51	11	15	11	53	15	11	9	51	11	15	11	53		
297A	9.2	9.2	13	49	17	51	20	20	15	51	17	51	17	20	15	51	19	20	17	53	20	17	15	51	19	20	17	53				
298A	13.8	13.8	18	49	23	51	25	25	20	51	22	51	22	25	20	51	25	25	22	53	25	22	20	51	25	25	22	53				

See: "Legend and Notes for Tables 1 - 4" on page 18.

Table 3 - 50HC 04-06 Unit Wire/Fuse or HACR Breaker Sizing Data (cont)

UNIT	NO M, V-Pn-HZ	ELEC. HTR				NO C.O. or UNPWR C.O.										w/ PWRD C.O.									
		IFM-TYPE	Nom (kW)	FLA	NO PE.			w/ P.E. (pwrd fr/unit)			NO PE.			w/ P.E. (pwrd fr/unit)			NO PE.			w/ P.E. (pwrd fr/unit)					
					MCA	MAX FUSE or HACR BRKR	DISC. SIZE FLA LRA	MCA	MAX FUSE or HACR BRKR	DISC. SIZE FLA LRA	MCA	MAX FUSE or HACR BRKR	DISC. SIZE FLA LRA	MCA	MAX FUSE or HACR BRKR	DISC. SIZE FLA LRA	MCA	MAX FUSE or HACR BRKR	DISC. SIZE FLA LRA	MCA	MAX FUSE or HACR BRKR	DISC. SIZE FLA LRA			
50HC-A05	DD-STD	NONE	-	-	37	50	35	127	38	50	37	129	41	60	41	132	43	60	43	60	43	134			
		101A	3.3/4.4	15.9/18.3	37/37	50/50	35/35	127/127	38/38	50/50	37/37	129/129	41/41	60/60	41/41	132/132	43/43	60/60	43/43	60/60	43/43	134/134			
		103B	6.5/8.7	31.4/36.3	49/55	50/60	45/50	127/127	51/57	60/60	47/52	129/129	55/61	60/70	50/56	132/132	57/63	60/70	52/58	60/70	52/58	134/134			
		102A+102A	9.8/13.0	46.9/54.2	68/77	70/80	62/71	127/127	71/80	80/80	65/73	129/129	74/83	80/90	68/76	132/132	77/86	80/90	70/79	80/90	70/79	134/134			
		103B+103B	13.1/17.4	62.8/72.5	88/100	90/100	81/92	127/127	91/103	100/110	83/94	129/129	94/106	100/110	86/97	132/132	97/109	100/110	88/100	100/110	88/100	134/134			
		104B+104B	15.8/21.0	75.8/87.5	104/119	110/125	96/109	127/127	107/121	110/125	98/111	129/129	110/125	125/125	101/115	132/132	113/127	125/150	103/117	125/150	103/117	134/134			
		NONE	-	-	34	50	32	132	36	50	35	134	39	60	38	137	41	60	40	60	40	139			
		101A	3.3/4.4	15.9/18.3	34/34	50/50	32/32	132/132	36/36	50/50	35/35	134/134	39/39	60/60	38/38	137/137	41/41	60/60	40/40	60/60	40/40	139/139			
		103B	6.5/8.7	31.4/36.3	46/52	50/60	42/47	132/132	48/54	50/60	44/50	134/134	52/58	60/60	47/53	137/137	54/60	60/60	49/55	60/60	49/55	139/139			
		102A+102A	9.8/13.0	46.9/54.2	65/74	70/80	60/68	132/132	68/77	70/80	62/70	134/134	71/80	80/80	65/73	137/137	74/83	80/90	67/76	80/90	67/76	139/139			
103B+103B	13.1/17.4	62.8/72.5	85/97	90/100	78/89	132/132	87/100	90/100	80/91	134/134	91/103	100/110	83/95	137/137	93/106	100/110	86/97	100/110	86/97	139/139					
104B+104B	15.8/21.0	75.8/87.5	101/116	110/125	93/106	132/132	104/118	110/125	95/108	134/134	107/122	110/125	98/112	137/137	110/124	110/125	101/114	110/125	101/114	139/139					
208/230-1-60	DD-STD	NONE	-	-	26	30	26	93	28	40	28	95	31	40	31	98	33	45	34	45	34	100			
		102A	4.9/6.5	13.6/15.6	27/29	30/30	26/26	93/93	29/32	40/40	28/29	95/95	33/35	40/40	31/32	98/98	35/38	45/45	34/34	45/45	34/34	100/100			
		103B	6.5/8.7	18.1/20.9	32/36	35/40	29/33	93/93	35/38	40/40	32/35	95/95	38/42	40/45	35/38	98/98	41/44	45/45	37/40	45/45	37/40	100/100			
		105A	12.0/16.0	33.4/38.5	51/58	60/60	47/53	93/93	54/60	60/60	49/55	95/95	57/64	60/70	52/58	98/98	60/66	60/70	55/60	60/70	55/60	100/100			
		104B+104B	15.8/21.0	43.8/50.5	64/73	70/80	59/67	93/93	67/75	70/80	61/69	95/95	70/79	80/80	64/72	98/98	73/81	80/90	67/74	80/90	67/74	100/100			
		NONE	-	-	24	30	23	105	26	30	26	107	29	40	29	110	31	40	31	40	31	112			
		102A	4.9/6.5	13.6/15.6	24/26	30/30	23/24	105/105	26/29	30/30	26/26	107/107	30/32	40/40	29/29	110/110	32/35	40/40	31/32	40/40	31/32	112/112			
		103B	6.5/8.7	18.1/20.9	30/33	30/35	27/30	105/105	32/35	35/40	29/32	107/107	36/39	40/40	32/36	110/110	38/41	40/45	35/38	40/45	35/38	112/112			
		105A	12.0/16.0	33.4/38.5	49/55	50/60	44/50	105/105	51/57	60/60	47/52	107/107	55/61	60/70	50/56	110/110	57/63	60/70	52/58	60/70	52/58	112/112			
		104B+104B	15.8/21.0	43.8/50.5	62/70	70/70	56/64	105/105	64/72	70/80	59/66	107/107	68/76	70/80	62/70	110/110	70/78	70/80	64/72	70/80	64/72	112/112			
208/230-3-60	STD	NONE	-	-	24/24	30/30	23/23	122	26/26	30/30	26/25	124	29/29	40/40	29/29	127	31/31	40/40	31/31	40/40	31/31	129			
		102A	4.9/6.5	13.6/15.6	24/26	30/30	23/24	122/122	26/28	30/30	26/26	124/124	30/32	40/40	29/29	127/127	32/34	40/40	31/31	40/40	31/31	129/129			
		103B	6.5/8.7	18.1/20.9	30/33	30/35	27/30	122/122	32/35	35/35	29/32	124/124	36/39	40/40	32/35	127/127	38/41	40/45	35/37	40/45	35/37	129/129			
		105A	12.0/16.0	33.4/38.5	49/55	50/60	44/50	122/122	51/57	60/60	47/52	124/124	55/61	60/70	50/55	127/127	57/63	60/70	52/58	60/70	52/58	129/129			
		104B+104B	15.8/21.0	43.8/50.5	62/70	70/70	56/64	122/122	64/72	70/80	59/66	124/124	68/76	70/80	62/69	127/127	70/78	70/80	64/71	70/80	64/71	129/129			
		NONE	-	-	27/27	40/40	27/27	158	29/29	40/40	29/29	160	32/32	45/45	33/32	163	34/34	45/45	35/35	45/45	35/35	165			
		102A	4.9/6.5	13.6/15.6	28/30	40/40	27/27	158/158	30/33	40/40	29/30	160/160	34/36	45/45	33/33	163/163	36/38	45/45	35/35	45/45	35/35	165/165			
		103B	6.5/8.7	18.1/20.9	34/37	40/40	30/34	158/158	36/39	40/40	33/36	160/160	40/43	45/45	36/39	163/163	42/45	45/45	38/41	45/45	38/41	165/165			
		105A	12.0/16.0	33.4/38.5	53/59	60/60	48/54	158/158	55/61	60/70	50/56	160/160	59/65	60/70	54/59	163/163	61/67	70/70	56/62	70/70	56/62	165/165			
		104B+104B	15.8/21.0	43.8/50.5	66/74	70/80	60/68	158/158	68/76	70/80	62/70	160/160	72/80	80/80	66/73	163/163	74/82	80/90	68/75	80/90	68/75	165/165			

See: *Legend and Notes for Tables 1 - 4* on page 18.

Table 3 - 50HC 04-06 Unit Wire/Fuse or HACR Breaker Sizing Data (cont)

UNIT	NO M, V-Pn-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	MAX FUSE or HACR BRKR	FLA	DISC. SIZE	LRA	MCA	MAX FUSE or HACR BRKR	FLA	DISC. SIZE	LRA	MCA	MAX FUSE or HACR BRKR	FLA	DISC. SIZE
50HC-A05	460-3-60	NONE	-	-	13	47	14	20	14	48	15	20	15	49	16	20	16	50
		106A	6.0	7.2	13	47	16	20	14	48	15	20	15	49	18	20	17	50
		108A	11.5	13.8	23	47	24	25	23	48	25	25	23	49	27	30	24	50
		109A	14.0	16.8	26	47	28	30	25	48	29	30	26	49	30	30	28	50
		108A+108A	23.0	27.7	40	47	41	45	38	48	43	45	39	49	44	45	40	50
		NONE	-	-	12	52	13	15	12	53	14	20	14	54	15	20	15	55
		106A	6.0	7.2	13	52	14	15	12	53	15	20	14	54	17	20	15	55
		108A	11.5	13.8	21	52	22	25	20	53	24	25	21	54	25	25	23	55
		109A	14.0	16.8	25	52	26	30	23	53	27	30	25	54	29	30	26	55
		108A+108A	23.0	27.7	38	52	40	40	36	53	41	45	37	54	42	45	39	55
50HC-A05	460-3-60	NONE	-	-	11	61	13	15	12	62	14	15	14	63	15	20	15	64
		106A	6.0	7.2	13	61	14	15	12	62	15	15	14	63	17	20	15	64
		108A	11.5	13.8	21	61	22	25	20	62	24	25	21	63	25	25	22	64
		109A	14.0	16.8	25	61	26	30	23	62	27	30	25	63	29	30	26	64
		108A+108A	23.0	27.7	38	61	39	40	36	62	41	45	37	63	42	45	38	64
		NONE	-	-	13	79	14	20	14	80	16	20	16	81	17	20	17	82
		106A	6.0	7.2	15	79	16	20	14	80	17	20	16	81	19	20	17	82
		108A	11.5	13.8	23	79	24	25	22	80	26	30	23	81	27	30	24	82
		109A	14.0	16.8	27	79	28	30	25	80	29	30	27	81	31	35	28	82
		108A+108A	23.0	27.7	40	79	42	40	38	80	43	45	39	81	44	45	40	82
50HC-A05	460-3-60	NONE	-	-	11	39	13	15	13	41	13	15	13	41	15	20	15	43
		297A	9.2	9.2	17	39	19	20	17	41	19	20	17	41	21	25	19	43
		298A	13.8	13.8	23	39	25	25	23	41	25	25	22	41	27	30	25	43
		NONE	-	-	9	42	10	15	10	44	10	15	10	44	12	15	12	46
		297A	9.2	9.2	13	42	16	20	14	44	16	20	14	44	18	20	16	46
		298A	13.8	13.8	19	42	22	25	19	44	21	25	19	44	24	25	21	46
		NONE	-	-	9	42	11	15	11	44	11	15	10	44	13	15	13	46
		297A	9.2	9.2	14	42	16	20	15	44	16	20	14	44	18	20	17	46
		298A	13.8	13.8	20	42	22	25	20	44	22	25	20	44	24	25	22	46
		NONE	-	-	10	57	12	15	12	59	12	15	12	59	14	15	14	61
297A	9.2	9.2	15	57	18	20	16	59	18	20	16	59	20	20	18	61		
298A	13.8	13.8	21	57	24	25	21	59	23	25	21	59	26	30	23	61		

See: "Legend and Notes for Tables 1 - 4" on page 18.

Table 3 - 50HC 04-06 Unit Wire/Fuse or HACR Breaker Sizing Data (cont)

UNIT	NO M, V-Pn-HZ	ELEC. HTR			NO C.O. or UNPWR C.O.										w/ PWRD C.O.									
		IFM-TYPE	Nom (kW)	FLA	NO PE.					w/ P.E. (pwrd fr/unit)					NO PE.					w/ P.E. (pwrd fr/unit)				
					MCA	MAX FUSE or HACR BRKR	FLA	DISC. SIZE	LRA	MCA	MAX FUSE or HACR BRKR	FLA	DISC. SIZE	LRA	MCA	MAX FUSE or HACR BRKR	FLA	DISC. SIZE	LRA	MCA	MAX FUSE or HACR BRKR	FLA	DISC. SIZE	LRA
50HC-A06	DD-STD	NONE	-	-	14	20	14	58	15	20	15	59	16	20	16	60	17	20	17	61	17	20	17	61
		106A	6.0	7.2	14	20	14	58	16	20	15	59	16	20	16	60	17	20	17	61	17	20	17	61
		108A	11.5	13.8	23	25	20	58	24	25	22	59	25	25	23	60	27	30	24	61	23	30	24	61
		109A	14.0	16.8	26	30	24	58	28	30	25	59	29	30	26	60	30	30	28	61	26	30	28	61
		108A+108A	23.0	27.7	40	40	36	58	41	45	38	59	43	45	39	60	44	45	40	61	39	44	40	61
		108A+109A	25.5	30.7	44	45	40	58	45	45	41	59	47	50	42	60	48	50	44	61	42	44	44	61
	STD	NONE	-	-	13	15	12	63	14	20	13	64	15	20	15	65	16	20	16	66	16	20	16	66
		106A	6.0	7.2	13	15	12	63	14	20	13	64	15	20	15	65	16	20	16	66	16	20	16	66
		108A	11.5	13.8	21	25	19	63	22	25	20	64	24	25	21	65	25	25	23	66	21	25	23	66
		109A	14.0	16.8	25	25	22	63	26	30	23	64	27	30	25	65	29	30	26	66	25	29	26	66
		108A+108A	23.0	27.7	38	40	35	63	40	40	36	64	41	45	37	65	42	45	39	66	37	42	39	66
		108A+109A	25.5	30.7	42	45	38	63	43	45	39	64	45	45	41	65	46	50	42	66	41	45	42	66
MED	NONE	-	-	14	20	14	90	15	20	15	91	17	20	16	92	18	20	18	93	16	20	18	93	
	106A	6.0	7.2	15	20	14	90	16	20	15	91	17	20	16	92	19	20	18	93	16	20	18	93	
	108A	11.5	13.8	23	25	21	90	24	25	22	91	26	30	23	92	27	30	24	93	23	27	24	93	
	109A	14.0	16.8	27	30	24	90	28	30	25	91	29	30	27	92	31	35	28	93	27	31	28	93	
	108A+108A	23.0	27.7	40	40	37	90	42	45	38	91	43	45	39	92	44	45	40	93	39	44	40	93	
	108A+109A	25.5	30.7	44	45	40	90	45	45	41	91	47	50	43	92	48	50	44	93	43	48	44	93	
HIGH	NONE	-	-	14	20	14	90	15	20	15	91	17	20	16	92	18	20	18	93	16	20	18	93	
	106A	6.0	7.2	15	20	14	90	16	20	15	91	17	20	16	92	19	20	18	93	16	20	18	93	
	108A	11.5	13.8	23	25	21	90	24	25	22	91	26	30	23	92	27	30	24	93	23	27	24	93	
	109A	14.0	16.8	27	30	24	90	28	30	25	91	29	30	27	92	31	35	28	93	27	31	28	93	
	108A+108A	23.0	27.7	40	40	37	90	42	45	38	91	43	45	39	92	44	45	40	93	39	44	40	93	
	108A+109A	25.5	30.7	44	45	40	90	45	45	41	91	47	50	43	92	48	50	44	93	43	48	44	93	
DD-STD	NONE	-	-	12	15	12	46	14	15	14	48	13	15	13	48	15	15	16	50	13	15	16	50	
	298A	13.8	13.8	23	25	20	46	25	25	23	48	25	25	22	48	27	30	25	50	22	27	25	50	
	301A	23.0	23.1	34	35	31	46	37	40	33	48	36	40	33	48	39	40	35	50	33	37	40	50	
STD	NONE	-	-	9	15	8	49	11	15	10	51	11	15	10	51	13	15	15	53	10	13	15	53	
	298A	13.8	13.8	19	20	17	49	22	25	19	51	21	25	19	51	24	25	21	53	19	24	25	53	
	301A	23.0	23.1	31	35	28	49	33	35	30	51	33	35	30	51	35	35	32	53	30	35	32	53	
MED	NONE	-	-	10	15	9	53	12	15	11	55	11	15	11	55	13	15	15	57	11	13	15	57	
	298A	13.8	13.8	20	20	18	53	23	25	20	55	22	25	20	55	25	25	22	57	20	25	25	57	
	301A	23.0	23.1	32	35	29	53	34	35	31	55	34	35	31	55	36	40	33	57	31	36	40	57	
HIGH	NONE	-	-	11	15	10	64	12	15	12	66	12	15	12	66	14	15	14	68	12	14	15	68	
	298A	13.8	13.8	21	25	19	64	24	25	21	66	23	25	21	66	26	30	23	68	21	26	30	68	
	301A	23.0	23.1	33	35	30	64	35	35	32	66	35	35	32	66	37	40	34	68	32	37	40	68	

See: "Legend and Notes for Tables 1 - 4" on page 18.

Table 4 - 50HC 04-06 Unit Wire Sizing Data with Factory Installed HACR Breaker (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/ PE. (pwrdr fr/unit)			NO PE.			w/ PE. (pwrdr fr/unit)			NO PE.			w/ PE. (pwrdr fr/unit)						
						MCA	HACR BRKR	DISC. SIZE FLA LRA	MCA	HACR BRKR	DISC. SIZE FLA LRA	MCA	HACR BRKR	DISC. SIZE FLA LRA	MCA	HACR BRKR	DISC. SIZE FLA LRA	MCA	HACR BRKR	DISC. SIZE FLA LRA							
50HC-A04	460-3-60	DD-STD	NONE	-	-	12	15	12	43	13	15	13	44	14	20	14	45	15	20	14	46	15	20	14	46		
			106A	6.0	7.2	14	15	13	43	16	20	14	20	44	17	20	15	45	18	20	15	46	18	20	15	46	
			107A	8.8	10.6	19	20	17	43	20	20	18	25	44	21	25	19	45	23	25	19	46	23	25	20	46	
			108A	11.5	13.8	23	25	20	43	24	25	22	24	25	44	25	25	20	45	27	30	24	46	27	30	24	46
			109A	14.0	16.8	26	30	24	43	28	30	25	24	44	29	30	26	45	30	30	28	46	30	30	28	46	
			NONE	-	-	11	15	10	48	12	15	11	49	13	15	15	13	50	14	20	14	51	14	20	14	51	
			106A	6.0	7.2	13	15	11	48	14	15	12	49	15	15	14	15	50	17	20	15	51	17	20	15	51	
			107A	8.8	10.6	17	20	15	48	18	20	16	49	20	20	18	20	50	21	25	19	51	21	25	19	51	
			108A	11.5	13.8	21	25	19	48	22	25	21	49	24	25	21	25	50	25	25	23	51	25	25	23	51	
			109A	14.0	16.8	25	25	22	48	26	30	23	49	27	30	25	30	50	29	30	26	51	29	30	26	51	
50HC-A04	460-3-60	MED	NONE	-	-	11	15	10	57	11	15	11	58	13	15	13	59	14	15	13	60	14	15	14	60		
			106A	6.0	7.2	13	15	11	57	14	15	12	58	15	15	14	15	59	17	20	15	60	17	20	15	60	
			107A	8.8	10.6	17	20	15	57	18	20	16	58	20	20	18	20	59	21	25	19	60	21	25	19	60	
			108A	11.5	13.8	21	25	19	57	22	25	20	58	24	25	21	25	59	25	25	21	60	25	25	21	60	
			109A	14.0	16.8	25	25	22	57	26	30	25	58	27	30	25	30	59	29	30	26	60	29	30	26	60	
			NONE	-	-	12	15	12	75	13	15	13	76	15	20	15	20	77	16	20	16	78	16	20	16	78	
			106A	6.0	7.2	15	15	13	75	16	20	14	76	17	20	16	20	77	19	20	17	78	19	20	17	78	
			107A	8.8	10.6	19	20	17	75	20	20	18	76	22	25	20	25	77	23	25	20	78	23	25	21	78	
			108A	11.5	13.8	23	25	21	75	24	25	22	76	26	28	23	25	77	27	27	23	78	27	27	23	78	
			109A	14.0	16.8	27	30	24	75	28	30	25	76	29	30	25	30	77	31	30	27	78	31	30	28	78	
575-3-60	DD-STD	NONE	-	-	10	15	10	42	12	15	12	44	11	15	11	44	13	15	11	46	13	15	11	46			
		297A	9.2	9.2	17	20	15	42	19	20	17	44	19	20	17	44	21	25	19	46	21	25	19	46			
		298A	13.8	13.8	23	25	20	42	25	25	23	44	25	25	22	44	27	30	25	46	27	30	25	46			
		NONE	-	-	7	15	6	45	9	15	9	47	9	15	8	47	11	15	8	49	11	15	10	49			
		297A	9.2	9.2	13	15	12	45	16	20	14	47	16	20	14	47	18	20	16	49	18	20	16	49			
		298A	13.8	13.8	19	20	17	45	22	25	19	47	21	25	19	47	24	25	21	49	24	25	21	49			
		NONE	-	-	7	15	6	45	9	15	9	47	9	15	8	47	11	15	8	49	11	15	10	49			
		297A	9.2	9.2	13	15	12	45	16	20	14	47	16	20	14	47	18	20	16	49	18	20	16	49			
		298A	13.8	13.8	19	20	17	45	22	25	19	47	21	25	19	47	24	25	21	49	24	25	21	49			
		575-3-60	MED	NONE	-	-	8	15	7	49	10	15	9	51	9	15	9	51	11	15	9	53	11	15	11	53	
297A	9.2			9.2	14	15	13	49	17	20	15	51	17	20	15	51	19	20	17	53	19	20	17	53			
298A	13.8			13.8	20	20	18	49	23	25	20	51	22	25	20	51	25	25	22	53	25	25	22	53			
NONE	-			-	8	15	7	49	10	15	9	51	9	15	9	51	11	15	9	53	11	15	11	53			

See: "Legend and Notes for Tables 1 - 4" on page 18.

Table 4 - 50HC 04-06 Unit Wire Sizing Data with Factory Installed HACR Breaker (cont)

UNIT	NO M. V-PH-HZ	ELEC. HTR			NO C.O. or UNPWR C.O.										w/ PWRD C.O.													
		IFM-TYPE	Nom (kW)	FLA	NO PE.			w/ PE. (pwrdr fr/unit)			NO PE.			w/ PE. (pwrdr fr/unit)			NO PE.			w/ PE. (pwrdr fr/unit)								
					MCA	HACR BRKR	FLA	DISC. SIZE	LRA	MCA	HACR BRKR	FLA	DISC. SIZE	LRA	MCA	HACR BRKR	FLA	DISC. SIZE	LRA	MCA	HACR BRKR	FLA	DISC. SIZE	LRA				
50HC-A05	460-3-60	DD-STD	NONE	-	-	13	13	47	14	48	15	20	20	14	15	20	15	49	16	20	16	50	20	20	16	50		
			106A	6.0	7.2	14	15	47	16	48	17	20	20	17	49	18	20	17	49	18	20	17	50	20	20	17	50	
			108A	11.5	13.8	20	25	47	24	48	25	25	25	23	49	27	30	24	49	27	30	24	50	30	30	24	50	
			109A	14.0	16.8	24	30	47	28	48	29	30	30	26	49	30	30	28	50	30	30	28	50	30	30	28	50	
			108A+108A	23.0	27.7	36	40	47	41	48	43	45	45	38	49	44	45	44	49	44	45	44	45	50	45	45	40	50
			NONE	-	-	11	15	52	13	53	14	20	20	14	54	15	20	15	55	15	20	15	55	20	20	15	55	
	460-3-60	STD	106A	6.0	7.2	13	15	52	14	53	15	15	20	14	54	17	20	15	55	17	20	15	55	20	20	15	55	
			108A	11.5	13.8	19	25	52	22	53	24	25	25	21	54	25	25	23	55	25	25	23	55	30	30	23	55	
			109A	14.0	16.8	22	25	52	26	53	27	30	30	23	54	29	30	25	55	29	30	25	55	30	30	26	55	
			108A+108A	23.0	27.7	35	40	52	40	53	41	45	45	37	54	42	45	39	55	42	45	39	55	45	45	39	55	
			NONE	-	-	11	15	61	13	62	14	15	15	14	63	15	15	15	64	15	15	14	64	20	20	15	64	
			106A	6.0	7.2	11	15	61	14	62	15	15	15	14	63	17	15	15	64	17	15	14	64	20	20	15	64	
50HC-A05	MED	108A	11.5	13.8	19	25	61	22	62	24	25	20	62	24	25	21	63	25	25	21	63	30	30	22	64			
		109A	14.0	16.8	22	25	61	26	62	27	30	30	23	63	29	30	25	64	29	30	25	64	30	30	26	64		
		108A+108A	23.0	27.7	35	40	61	39	62	41	40	40	36	63	41	45	37	64	42	45	37	64	45	45	38	64		
		NONE	-	-	13	15	79	14	80	16	20	20	16	81	17	20	17	82	17	20	16	82	20	20	17	82		
		106A	6.0	7.2	13	15	79	16	80	17	20	20	14	80	17	20	16	81	19	20	16	81	20	20	17	82		
		108A	11.5	13.8	21	25	79	24	80	26	25	25	22	80	26	30	23	81	27	30	23	81	30	30	24	82		
575-3-60	DD-STD	109A	14.0	16.8	24	30	79	28	80	29	30	25	80	29	30	27	81	31	30	27	81	35	35	28	82			
		108A+108A	23.0	27.7	37	40	79	42	80	43	40	40	38	80	43	45	39	81	44	45	39	82	45	45	40	82		
		NONE	-	-	11	15	39	13	41	13	15	15	13	41	15	15	13	43	15	15	13	43	20	20	15	43		
		297A	9.2	9.2	15	20	39	19	41	19	20	20	17	41	19	20	17	41	21	21	17	41	25	25	19	43		
		298A	13.8	13.8	20	25	39	25	41	25	25	25	23	41	25	25	22	41	27	27	22	41	30	30	25	43		
		NONE	-	-	8	15	42	10	44	10	15	15	10	44	10	15	10	44	12	15	10	44	15	15	12	46		
575-3-60	STD	297A	9.2	9.2	12	15	42	16	44	16	20	14	44	16	20	14	44	18	20	14	44	20	20	16	46			
		298A	13.8	13.8	17	20	42	22	44	21	25	19	44	21	25	19	44	24	25	19	44	25	25	21	46			
		NONE	-	-	8	15	42	11	44	11	15	15	11	44	11	15	10	44	13	15	10	44	15	15	13	46		
		297A	9.2	9.2	12	15	42	16	44	16	20	15	44	16	20	14	44	18	20	14	44	20	20	17	46			
		298A	13.8	13.8	18	20	42	22	44	22	25	20	44	22	25	20	44	24	25	20	44	25	25	22	46			
		NONE	-	-	10	15	57	12	59	12	15	15	12	59	12	15	12	59	14	15	12	59	15	15	14	61		
575-3-60	MED	297A	9.2	9.2	14	15	42	16	44	16	20	15	44	16	20	14	44	18	20	14	44	20	20	17	46			
		298A	13.8	13.8	18	20	42	22	44	22	25	20	44	22	25	20	44	24	25	20	44	25	25	22	46			
		NONE	-	-	10	15	57	12	59	12	15	15	12	59	12	15	12	59	14	15	12	59	15	15	14	61		
		297A	9.2	9.2	14	15	57	18	59	18	20	20	16	59	18	20	16	59	20	20	16	59	20	20	18	61		
		298A	13.8	13.8	19	25	57	24	59	24	25	25	21	59	23	25	21	59	26	25	21	59	30	30	23	61		
		NONE	-	-	21	25	57	21	59	21	25	25	21	59	21	25	21	59	23	25	21	59	30	30	23	61		

See: "Legend and Notes for Tables 1 - 4" on page 18.

Table 4 - 50HC 04-06 Unit Wire Sizing Data with Factory Installed HACR Breaker (cont)

UNIT	IFM-TYPE	ELEC. HTR			NO C.O. or UNPWR C.O.						w/ PWRD C.O.								
		ORHEATER**A00	Nom (kW)	FLA	NO PE.			w/ P.E. (pwrd fr/unit)			NO PE.			w/ P.E. (pwrd fr/unit)					
					MCA	HACR BRKR	DISC. SIZE		MCA	HACR BRKR	DISC. SIZE		MCA	HACR BRKR	DISC. SIZE				
							FLA	LRA			FLA	LRA			FLA	LRA			
50HC-A06	DD-STD	NONE	-	-	39	144	41	146	60	45	60	44	149	47	60	47	151		
		102A	4.9/6.5	23.5/27.1	44/44	39/40	144/144	41/42	146/146	60/60	50/50	60/60	44/45	149/149	52/52	60/60	47/47	151/151	
		103B	6.5/8.7	31.4/36.3	55/55	45/50	144/144	47/52	146/146	60/60	61/61	70/70	50/56	149/149	63/63	70/70	52/58	151/151	
		102A+102A	9.8/13.0	46.9/54.2	77/77	62/71	144/144	80/80	146/146	80/80	83/83	90/90	68/76	149/149	86/86	90/90	70/79	151/151	
		103B+103B	13.1/17.4	62.8/72.5	100/100	81/92	144/144	103/103	146/146	110/110	106/106	110/110	88/97	149/149	109/109	110/110	88/100	151/151	
		104B+104B	15.8/21.0	75.8/87.5	119/119	96/109	144/144	121/121	146/146	125/125	125/125	125/125	101/115	149/149	127/127	150/150	103/117	151/151	
		NONE	-	-	38	149	38	151	60	43	60	42	154	45	60	44	156		
		102A	4.9/6.5	23.5/27.1	40/40	36/37	149/149	43/43	151/151	60/60	46/46	60/60	42/42	154/154	49/49	60/60	44/45	156/156	
		103B	6.5/8.7	31.4/36.3	52/52	42/47	149/149	54/54	151/151	60/60	58/58	60/60	47/53	154/154	60/60	60/60	49/55	156/156	
		102A+102A	9.8/13.0	46.9/54.2	74/74	60/68	149/149	77/77	151/151	80/80	80/80	80/80	65/73	154/154	83/83	90/90	67/76	156/156	
		103B+103B	13.1/17.4	62.8/72.5	97/97	78/89	149/149	100/100	151/151	100/100	103/103	110/110	83/95	154/154	106/106	110/110	86/97	156/156	
		104B+104B	15.8/21.0	75.8/87.5	116/116	93/106	149/149	118/118	151/151	125/125	122/122	125/125	98/112	154/154	124/124	125/125	101/114	156/156	
		208/230-1-60	MED	NONE	-	-	38	174	41	176	60	45	60	44	179	47	60	46	181
				102A	4.9/6.5	23.5/27.1	49/43	38/39	174/174	45/45	176/176	60/60	49/49	60/60	44/45	179/179	51/51	60/60	46/47
103B	6.5/8.7			31.4/36.3	55/55	44/50	174/174	57/57	176/176	60/60	61/61	70/70	50/55	179/179	63/63	70/70	52/58	181/181	
102A+102A	9.8/13.0			46.9/54.2	77/77	62/70	174/174	79/79	176/176	80/80	83/83	90/90	68/76	179/179	85/85	90/90	70/78	181/181	
103B+103B	13.1/17.4			62.8/72.5	100/100	80/91	174/174	102/102	176/176	110/110	106/106	110/110	86/97	179/179	108/108	110/110	88/99	181/181	
104B+104B	15.8/21.0			75.8/87.5	119/119	95/109	174/174	121/121	176/176	125/125	125/125	125/125	101/114	179/179	127/127	150/150	103/116	181/181	
NONE	-			-	29	40	28	120	31	122	40	34	45	125	36	50	36	127	
102A	4.9/6.5			13.6/15.6	29/29	28/28	120/120	32/32	122/122	40/40	35/35	45/45	34/34	125/125	38/38	50/50	36/36	127/127	
104B	7.9/10.5			21.9/25.3	41/41	34/38	120/120	44/44	122/122	45/45	47/47	50/50	39/43	125/125	50/50	50/50	41/45	127/127	
105A	12.0/16.0			33.4/38.5	59/58	47/53	120/120	60/60	122/122	60/60	64/64	70/70	52/58	125/125	66/66	70/70	55/60	127/127	
104B+104B	15.8/21.0			43.8/50.5	73/73	59/67	120/120	75/75	122/122	80/80	79/79	80/80	64/72	125/125	81/81	90/90	67/74	127/127	
104B+105A	19.9/26.5			55.2/63.8	89/89	72/82	120/120	92/92	122/122	100/100	95/95	100/100	78/87	125/125	98/98	100/100	80/90	127/127	
208/230-3-60	STD			NONE	-	-	26	132	28	134	40	32	45	31	137	34	45	34	139
				102A	4.9/6.5	13.6/15.6	27/27	26/26	132/132	29/29	134/134	40/40	32/32	45/45	31/31	137/137	35/35	45/45	34/34
		104B	7.9/10.5	21.9/25.3	39/39	31/35	132/132	41/41	134/134	45/45	45/45	45/45	37/41	137/137	47/47	50/50	39/43	139/139	
		105A	12.0/16.0	33.4/38.5	55/55	44/50	132/132	57/57	134/134	60/60	61/61	70/70	50/56	137/137	63/63	70/70	52/58	139/139	
		104B+104B	15.8/21.0	43.8/50.5	70/70	56/64	132/132	72/72	134/134	80/80	76/76	80/80	62/70	137/137	78/78	80/80	64/72	139/139	
		104B+105A	19.9/26.5	55.2/63.8	87/87	69/79	132/132	89/89	134/134	90/90	93/93	100/100	75/85	137/137	95/95	100/100	77/87	139/139	
		NONE	-	-	30/30	45/45	185	32/32	187	45/45	35/35	50/50	35/35	190	37/37	50/50	37/37	192	
		102A	4.9/6.5	13.6/15.6	30/30	30/29	185/185	33/33	187/187	45/45	36/36	50/50	35/35	190/190	39/39	50/50	37/37	192/192	
		104B	7.9/10.5	21.9/25.3	42/42	35/39	185/185	45/45	187/187	45/45	48/48	50/50	40/44	190/190	51/51	60/60	43/46	192/192	
		105A	12.0/16.0	33.4/38.5	59/59	48/54	185/185	61/61	187/187	70/70	65/65	70/70	54/59	190/190	67/67	70/70	56/62	192/192	
		104B+104B	15.8/21.0	43.8/50.5	74/74	60/68	185/185	76/76	187/187	80/80	80/80	80/80	68/73	190/190	82/82	90/90	68/75	192/192	
		104B+105A	19.9/26.5	55.2/63.8	91/91	73/83	185/185	93/93	187/187	100/100	97/97	100/100	79/88	190/190	99/99	100/100	81/91	192/192	
		HIGH	NONE	-	-	30/30	45/45	185	32/32	187	45/45	35/35	50/50	35/35	190	37/37	50/50	37/37	192
			102A	4.9/6.5	13.6/15.6	30/30	30/29	185/185	33/33	187/187	45/45	36/36	50/50	35/35	190/190	39/39	50/50	37/37	192/192
104B	7.9/10.5		21.9/25.3	42/42	35/39	185/185	45/45	187/187	45/45	48/48	50/50	40/44	190/190	51/51	60/60	43/46	192/192		
105A	12.0/16.0		33.4/38.5	59/59	48/54	185/185	61/61	187/187	70/70	65/65	70/70	54/59	190/190	67/67	70/70	56/62	192/192		
104B+104B	15.8/21.0		43.8/50.5	74/74	60/68	185/185	76/76	187/187	80/80	80/80	80/80	68/73	190/190	82/82	90/90	68/75	192/192		

See: "Legend and Notes for Tables 1 - 4" on page 18.

Table 4 - 50HC 04-06 Unit Wire Sizing Data with Factory Installed HACR Breaker (cont)

UNIT	NO M. V-Ph-HZ	ELEC. HTR			NO C.O. or UNPWR C.O.						w/ PWRD C.O.											
		IFM-TYPE	FLA	NOM (kW)	NO PE.			w/ PE. (pwrd fr/unit)			NO PE.			w/ PE. (pwrd fr/unit)								
					MCA	HACR BRKR	DISC. SIZE FLA LRA	MCA	HACR BRKR	DISC. SIZE FLA LRA	MCA	HACR BRKR	DISC. SIZE FLA LRA	MCA	HACR BRKR	DISC. SIZE FLA LRA						
50HC-A06	460-3-60	DD-STD	NONE	-	14	20	14	58	15	20	15	59	16	20	16	60	17	20	17	61		
			106A	6.0	14	20	14	58	16	20	15	59	17	20	16	20	60	18	20	17	61	
			108A	11.5	23	25	20	58	24	25	22	25	23	59	25	25	23	27	30	24	61	
			109A	14.0	26	30	24	58	28	30	25	30	29	59	29	30	26	30	30	28	61	
			108A+108A	23.0	40	40	36	58	41	45	38	45	43	59	43	45	39	44	45	40	61	
			108A+109A	25.5	44	45	40	58	45	45	41	45	47	59	47	50	42	48	50	44	61	
			NONE	-	13	15	12	63	14	20	13	13	15	64	15	20	15	65	16	20	16	66
			106A	6.0	13	15	12	63	14	20	13	13	15	64	15	20	15	65	17	20	16	66
			108A	11.5	21	25	19	63	22	25	20	25	24	64	24	25	21	25	25	25	23	66
			109A	14.0	25	25	22	63	26	30	23	30	27	64	27	30	25	25	29	30	26	66
50HC-A06	460-3-60	MED	108A+108A	23.0	38	40	35	63	40	40	36	64	41	45	45	37	65	42	45	39	66	
			108A+109A	25.5	42	45	38	63	43	45	39	45	45	64	45	45	41	46	50	42	66	
			NONE	-	14	20	14	90	15	20	15	15	91	17	20	16	92	18	20	18	93	
			106A	6.0	15	20	14	90	16	20	15	15	91	17	20	16	92	19	20	18	93	
			108A	11.5	23	25	21	90	24	25	22	25	91	26	30	23	92	27	30	24	93	
			109A	14.0	27	30	24	90	28	30	25	30	29	91	29	30	27	92	31	35	28	93
			108A+108A	23.0	40	40	37	90	42	45	38	45	43	91	43	45	39	92	44	45	40	93
			108A+109A	25.5	44	45	40	90	45	45	41	45	47	91	47	50	43	92	48	50	44	93
			NONE	-	14	20	14	90	15	20	15	15	91	17	20	16	92	18	20	18	93	
			106A	6.0	15	20	14	90	16	20	15	15	91	17	20	16	92	19	20	18	93	
575-3-60	DD-STD	108A	11.5	23	25	21	90	24	25	22	91	26	30	23	92	27	30	24	93			
		109A	14.0	27	30	24	90	28	30	25	30	29	30	27	92	31	35	28	93			
		108A+108A	23.0	40	40	37	90	42	45	38	45	43	91	43	45	39	92	44	40	93		
		108A+109A	25.5	44	45	40	90	45	45	41	45	47	91	47	50	43	92	48	50	44	93	
		NONE	-	12	15	12	46	14	15	14	14	48	13	15	13	48	15	15	16	50		
		298A	13.8	23	25	20	46	25	25	23	25	48	25	25	22	48	27	30	25	50		
		301A	23.0	34	35	31	46	37	40	33	40	48	36	40	33	48	39	40	35	50		
		NONE	-	9	15	8	49	11	15	10	15	51	11	15	10	51	13	15	12	53		
		298A	13.8	19	20	17	49	22	25	19	25	51	21	25	19	51	24	25	21	53		
		301A	23.0	31	35	28	49	33	35	30	35	51	33	35	30	51	35	35	32	53		
575-3-60	STD	NONE	-	10	15	9	53	12	15	11	55	11	15	11	55	13	15	13	57			
		298A	13.8	20	20	18	53	23	25	20	25	55	22	25	20	55	25	25	57			
		301A	23.0	32	35	29	53	34	35	31	35	55	34	35	31	55	36	40	57			
575-3-60	MED	NONE	-	11	15	10	64	12	15	12	66	12	15	12	66	14	15	14	68			
		298A	13.8	21	25	19	64	24	25	21	25	66	23	25	21	66	26	30	23	68		
		301A	23.0	33	35	30	64	35	35	32	35	66	35	35	32	66	37	40	68			

See: "Legend and Notes for Tables 1 - 4" on page 18.

Legend and Notes for Tables 1 - 4

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:

- 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.