

**48TC 3 to 15 Nominal Tons
Single Package Rooftop
Gas Heating/Electric Cooling Unit
with Puron® (R-410A) Refrigerant
Sizes: 04 – 16**



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 48TC size 04 to 16 units manufactured on or after July 30, 2012. To confirm the date of manufacture of a 48TC 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:	4	8	T	C	D	E	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
16 - 15 ton

Electrical Options


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

C12563

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 48TC size 04 to 16 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.

48TC**04-16

Nameplate Location

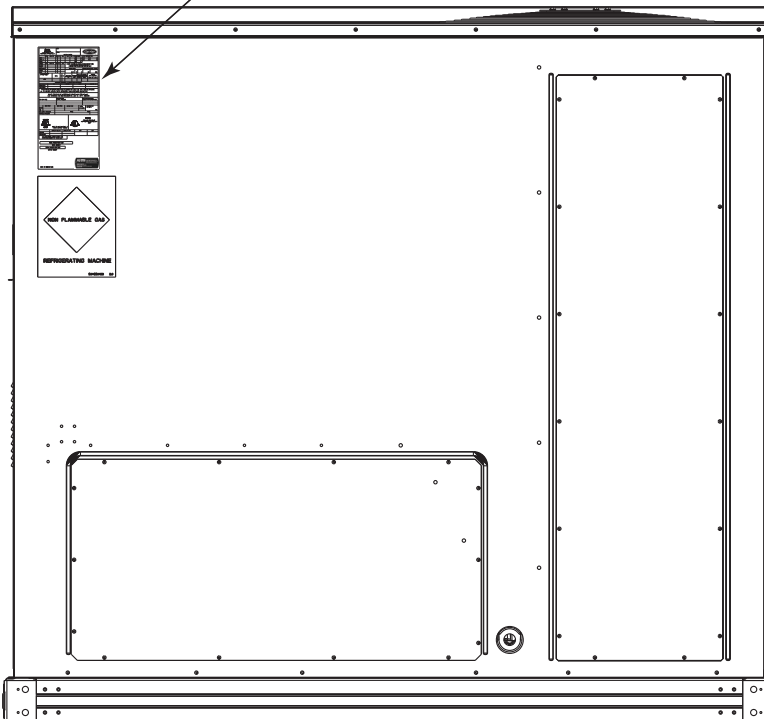


Fig. 1 - Location of Unit Nameplate

C101278

Table 1 – 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 P.E.			w/ P.E. (pwrdr fr/ unit)			NO P.E.			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			
48TC**04	208/230-1-60	STD	28	40	26	95	30	45	29	97	32	100	34	50	34	102	
		MED	28	40	26	95	30	45	29	97	32	100	34	50	34	102	
		STD	20	30	20	96	22	30	22	98	25	101	27	30	27	103	
	208/230-3-60	MED	20	30	20	96	22	30	22	98	25	101	27	30	27	103	
		HIGH	22/22	30/30	22/21	134	24/24	30/30	24/24	136	27/26	30/30	27/27	29/28	35/35	29/29	141
		STD	11	15	11	49	12	15	12	50	13	51	14	20	14	52	
	460-3-60	MED	11	15	11	49	12	15	12	50	13	51	14	20	14	52	
		HIGH	12	15	12	68	13	15	13	69	14	70	15	20	15	71	
		STD	8	15	8	46	10	15	10	48	10	48	12	15	12	50	
	575-3-60	MED	8	15	8	46	10	15	10	48	10	48	12	15	12	50	
		HIGH	8	15	7	50	10	15	10	52	10	52	11	15	12	54	
		STD	34	50	32	133	36	50	35	135	39	138	41	60	40	140	
208/230-1-60	MED	34	50	32	133	36	50	35	135	39	138	41	60	40	140		
	STD	24	30	23	106	26	30	26	108	29	111	31	40	31	113		
	MED	24	30	23	106	26	30	26	108	29	111	31	40	31	113		
48TC**05	208/230-3-60	HIGH	26/26	30/30	25/25	144	28/28	40/40	28/27	146	31/31	40/40	31/31	45/45	33/33	151	
		STD	12	15	11	52	13	15	12	53	14	54	15	20	15	55	
		MED	12	15	11	52	13	15	12	53	14	54	15	20	15	55	
	460-3-60	HIGH	12	15	12	71	13	15	13	72	15	73	16	20	16	74	
		STD	9	15	9	42	11	15	11	44	11	44	13	15	13	46	
		MED	9	15	9	42	11	15	11	44	11	44	13	15	13	46	
575-3-60	HIGH	9	15	9	46	11	15	11	48	11	48	13	15	13	50		

See: "Legend and Notes for Tables 1 and 2" on page 10.

Table 1 - 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 P.E.			w/ P.E. (pwrd fr/ unit)			NO P.E.			w/ P.E. (pwrd 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					
48TC**06	208/230-1-60	STD	40	60	37	150	42	60	40	152	44	60	43	155	46	60	45	157	
		MED	42	60	40	175	44	60	42	177	47	60	45	180	48	60	48	182	
		STD	27	40	26	133	29	40	28	135	31	45	31	138	33	45	33	140	
	208/230-3-60	MED	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	
		HIGH	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	
	460-3-60	STD	13	20	13	63	14	20	14	64	16	20	15	65	17	20	16	66	
		MED	14	20	14	82	15	20	15	83	16	20	16	84	17	20	17	85	
		HIGH	15	20	15	90	16	20	16	91	17	20	17	92	18	25	18	93	
		STD	11	15	10	48	13	15	12	50	12	15	12	50	14	20	14	52	
		MED	10	15	10	52	12	15	12	54	12	15	12	54	14	15	14	56	
48TC**07	208/230-3-60	HIGH	11	15	11	63	13	15	13	65	13	15	13	65	15	20	15	67	
		STD	33/32	50/50	32/31	184	35/34	50/50	34/33	186	37/37	50/50	37/37	189	39/39	50/50	39/39	191	
		MED	34/34	50/50	33/33	199	36/36	50/50	35/35	201	39/39	50/50	39/39	204	41/41	50/50	41/41	206	
	460-3-60	HIGH	36	50	36	213	38	50	38	215	41	50	41	218	43	60	43	220	
		STD	17	25	16	92	18	25	17	93	19	25	19	94	20	25	20	95	
	575-3-60	MED	18	25	17	100	19	25	18	101	20	25	20	102	21	30	21	103	
		HIGH	19	25	18	107	20	25	19	108	21	30	21	109	22	30	22	110	
		STD	12	15	12	63	14	20	14	65	14	20	13	65	16	20	16	67	
		MED	13	20	12	74	15	20	15	76	15	20	14	76	17	20	17	78	
		HIGH	13	20	12	74	15	20	15	76	15	20	14	76	17	20	17	78	
48TC*A08	208/230-3-60	STD	40/40	60/60	38/38	208	44/43	60/60	43/42	212	45/44	60/60	44/43	213	49/48	60/60	48/48	217	
		MED	43/43	60/60	42/42	244	47/47	60/60	46/46	248	48/48	60/60	47/47	249	52/52	60/60	52/52	253	
		HIGH	48/47	60/60	48/47	260	52/51	60/60	52/51	264	53/52	60/60	53/52	265	57/56	80/80	58/57	269	
	460-3-60	STD	20	30	19	122	22	30	21	124	22	30	21	124	24	30	23	126	
		MED	22	30	21	140	23	30	23	142	24	30	23	142	26	30	25	144	
	575-3-60	HIGH	24	30	23	148	26	30	25	150	26	30	26	150	28	35	28	152	
		STD	15	20	14	89	18	25	18	93	18	25	16	91	20	25	20	95	
		MED	16	20	15	104	20	25	19	108	17	25	17	106	21	25	21	110	
		460-3-60	HIGH	19	25	18	118	22	30	23	122	20	25	20	120	24	30	24	124

See: *Legend and Notes for Tables 1 and 2 * on page 10.

Table 1 - 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 P.E.					w/ P.E. (pwrd fr/ unit)					NO P.E.					w/ P.E. (pwrd fr/ unit)								
			MCA	FUSE or HACR BRKR	FLA	LRA	DISC. SIZE	MCA	FUSE or HACR BRKR	FLA	LRA	DISC. SIZE	MCA	FUSE or HACR BRKR	FLA	LRA	DISC. SIZE	MCA	FUSE or HACR BRKR	FLA	LRA	DISC. SIZE	MCA	FUSE or HACR BRKR	FLA	LRA
48TC*D08	208/230-3-60	STD	39/39	50/50	41/40	210	43/43	50/50	45/45	214	44/44	50/50	48/48	215	48/48	60/60	51/50	219	48/48	60/60	51/50	219	48/48	60/60	51/50	219
		MED	42/42	50/50	44/44	246	46/46	50/50	49/49	250	47/47	60/60	51/51	251	51/51	60/60	54/54	255	51/51	60/60	54/54	255	51/51	60/60	54/54	255
		HIGH	48/47	60/50	50/49	262	51/51	60/60	55/54	266	52/52	60/60	56/55	267	56/55	60/60	60/59	271	56/55	60/60	60/59	271	56/55	60/60	60/59	271
	460-3-60	STD	18	20	19	104	20	25	21	106	20	25	21	106	22	25	23	108	22	25	23	108	22	25	23	108
		MED	20	25	21	122	22	25	23	124	22	25	23	124	22	25	23	126	22	25	23	126	22	25	23	126
		HIGH	22	25	23	130	24	30	25	132	24	30	26	132	24	30	28	134	24	30	26	134	24	30	28	134
48TC*A09	208/230-3-60	STD	13	15	13	77	17	20	17	81	14	15	15	79	18	20	19	83	14	15	15	79	18	20	19	83
		MED	14	15	14	92	18	20	19	96	16	20	16	94	19	20	21	98	16	20	16	94	19	20	21	98
		HIGH	17	20	17	106	21	25	22	110	19	20	19	108	23	25	24	112	19	20	19	108	23	25	24	112
	460-3-60	STD	46/45	60/60	43/43	239	49/49	60/60	48/47	243	50/50	60/60	49/49	244	54/54	60/60	53/53	248	50/50	60/60	49/49	244	54/54	60/60	53/53	248
		MED	47/47	60/60	45/45	260	51/51	60/60	50/49	264	52/52	60/60	51/51	265	56/56	60/60	55/55	269	52/52	60/60	51/51	265	56/56	60/60	55/55	269
		HIGH	51	60	50	289	55	80	54	293	56	80	55	294	60	80	59	298	56	80	55	294	60	80	59	298
48TC*D09	208/230-3-60	STD	23	30	22	117	25	30	24	119	25	30	24	119	27	40	26	121	25	30	24	119	27	40	26	121
		MED	24	30	23	127	26	30	25	129	26	30	25	129	28	40	27	131	26	30	25	129	28	40	27	131
		HIGH	26	30	25	142	28	40	27	144	28	40	27	144	30	40	29	146	28	40	27	144	30	40	29	146
	575-3-60	STD	19	30	17	91	22	30	22	95	20	30	19	93	24	30	24	97	20	30	19	93	24	30	24	97
		MED	19	30	18	95	23	30	22	99	21	30	20	97	24	30	24	101	23	30	20	97	24	30	24	101
		HIGH	20	30	19	106	24	30	23	110	21	30	21	108	25	30	25	112	24	30	21	108	25	30	25	112
48TC*D09	208/230-3-60	STD	40/40	50/50	42/42	225	44/44	50/50	46/46	229	45/45	50/50	47/47	230	49/49	60/60	52/51	234	45/45	50/50	47/47	230	49/49	60/60	52/51	234
		MED	42/42	50/50	44/44	246	46/46	60/50	48/48	250	47/47	60/60	49/49	251	51/51	60/60	54/53	255	47/47	60/60	49/49	251	51/51	60/60	54/53	255
		HIGH	46	50	48	275	50	60	52	279	51	60	54	280	54	60	58	284	51	60	54	280	54	60	58	284
	460-3-60	STD	19	20	19	118	20	25	21	120	21	25	21	120	23	25	24	122	21	25	21	120	23	25	24	122
		MED	20	25	20	128	21	25	22	130	22	25	23	130	24	25	25	132	22	25	23	130	24	25	25	132
		HIGH	21	25	22	143	23	25	24	145	24	25	25	145	25	30	27	147	23	25	25	145	25	30	27	147
575-3-60	STD	16	20	16	85	19	25	20	89	17	20	18	87	21	25	22	91	17	20	18	87	21	25	22	91	
	MED	16	20	16	89	20	25	20	93	18	20	18	91	21	25	22	95	18	20	18	91	21	25	22	95	
	HIGH	17	20	17	100	21	25	21	104	18	20	19	102	22	25	23	106	18	20	19	102	22	25	23	106	

See: "Legend and Notes for Tables 1 and 2" on page 10.

Table 1 - 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 P.E.					w/ P.E. (pwrd fr/ unit)					NO P.E.					w/ P.E. (pwrd fr/ unit)									
			MCA	FUSE or HACR BRKR	FLA	LRA	DISC. SIZE	MCA	FUSE or HACR BRKR	FLA	LRA	DISC. SIZE	MCA	FUSE or HACR BRKR	FLA	LRA	DISC. SIZE	MCA	FUSE or HACR BRKR	FLA	LRA	DISC. SIZE	MCA	FUSE or HACR BRKR	FLA	LRA	DISC. SIZE
48TC*A12	208/230-3-60	STD	48/48	60/60	46/46	290	52/52	60/60	50/50	294	53/53	60/60	52/51	295	57/56	80/80	56/56	299									
		MED	52	60	50	319	55	80	55	323	56	80	56	324	60	80	60	328									
		HIGH	55/54	80/80	54/53	321	58/58	80/80	58/57	325	59/59	80/80	59/58	326	63/62	80/80	64/63	330									
	460-3-60	STD	26	40	25	146	28	40	27	148	29	40	27	148	30	45	30	150									
		MED	28	40	27	161	30	45	29	163	30	45	30	163	32	45	32	165									
		HIGH	29	45	28	162	31	45	30	164	32	45	31	164	33	45	33	166									
575-3-60	STD	19	30	18	95	23	30	22	99	21	30	20	97	24	30	24	101										
	MED	20	30	19	106	24	30	23	110	21	30	21	108	25	30	25	112										
	HIGH	23	30	22	120	26	30	26	124	24	30	24	122	28	35	28	126										
48TC*D12	208/230-3-60	STD	46/46	60/60	48/47	285	50/49	60/60	52/52	289	51/50	60/60	53/53	290	54/54	60/60	58/57	294									
		MED	50	60	52	314	53	60	56	318	54	60	57	319	58	70	62	323									
		HIGH	53/52	60/60	55/54	316	56/55	60/60	60/59	320	57/56	70/60	61/60	321	61/60	70/70	65/64	325									
	460-3-60	STD	23	30	23	136	25	30	26	138	25	30	26	138	27	30	28	140									
		MED	25	30	26	151	26	30	28	153	27	30	28	153	29	35	30	155									
		HIGH	26	30	27	152	28	30	29	154	28	30	29	154	30	35	32	156									
575-3-60	STD	17	20	17	93	20	25	21	97	18	20	19	95	22	25	23	99										
	MED	17	20	18	104	21	25	22	108	19	25	20	106	23	25	24	110										
	HIGH	20	25	21	118	24	30	25	122	22	25	23	120	26	30	27	124										
48TC*D14	208/230-3-60	STD	62/62	80/80	64/64	376	66/66	80/80	69/69	380	67/67	80/80	70/70	381	71/71	80/80	74/74	385									
		MED	64	80	67	390	68	80	71	394	69	80	72	395	73	80	77	399									
		HIGH	67/66	80/80	70/69	392	71/70	80/80	75/74	396																	
	460-3-60	STD	31	40	32	189	33	40	34	191	33	40	34	191	35	40	36	193									
		MED	32	40	33	196	34	40	35	198	34	40	36	198	36	45	38	200									
		HIGH	33	40	34	197	35	40	36	199	35	45	37	199	37	45	39	201									
575-3-60	STD	23	30	23	142	27	30	28	146	24	30	25	144	28	30	30	148										
	MED	23	30	23	142	27	30	28	146	24	30	25	144	28	30	30	148										
	HIGH	26	30	27	156	29	35	31	160	27	30	29	158	31	35	33	162										

See: "Legend and Notes for Tables 1 and 2" on page 10.

Table 1 - 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 P.E.			w/ P.E. (pwrd fr/ unit)			NO P.E.			w/ P.E. (pwrd 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				
48TC*D16	208/230-3-60	STD	70/70	80/80	72/72	412	73/73	80/80	77/77	416	74/74	90/90	78/78	417	78/78	100/100	82/82	421
		MED	72	80	75	426	76	100	79	430	77	100	80	431	80	100	85	435
		HIGH	82	100	86	432	85	100	91	436	86	100	92	437	90	100	96	441
	460-3-60	STD	35	45	36	242	37	45	38	244	37	45	39	244	39	50	41	246
		MED	36	45	38	249	38	50	40	251	39	50	40	251	40	50	42	253
		HIGH	41	50	43	252	43	50	45	254	43	50	46	254	45	50	48	256
575-3-60	STD	27	30	28	184	31	40	32	188	29	35	30	186	32	40	34	190	
	MED	27	30	28	184	31	40	32	188	29	35	30	186	32	40	34	190	
	HIGH	33	40	35	196	37	45	39	200	35	40	37	198	39	45	41	202	

See: "Legend and Notes for Tables 1 and 2" on page 10.

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

UNIT	NOM. V-Ph-Hz	IFM TYPE	NO C.O. or UNPWR C.O.												w/ PWRD C.O.												
			NO P.E.						w/ P.E. (pwrdr fr/ unit)						NO P.E.						w/ P.E. (pwrdr fr/ unit)						
			MCA	FUSE or HACR BRKR	FLA	LRA	MCA	FUSE or HACR BRKR	FLA	LRA	MCA	FUSE or HACR BRKR	FLA	LRA	MCA	FUSE or HACR BRKR	FLA	LRA	MCA	FUSE or HACR BRKR	FLA	LRA	MCA	FUSE or HACR BRKR	FLA	LRA	
48TC*D08	208/230-3-60	STD	40/40	50/50	41/41	197	44/43	50/50	46/46	201	45/44	50/50	47/47	202	48/48	60/60	47/47	202	48/48	60/60	47/47	202	48/48	60/60	51/51	206	
		MED	43/42	50/50	45/44	227	46/46	50/50	49/48	231	47/47	60/60	50/49	232	51/50	60/60	50/49	232	51/50	60/60	50/49	232	51/50	60/60	55/54	236	
		HIGH	48/47	60/50	50/49	262	51/51	60/60	55/54	266	52/52	60/60	55/54	266	56/55	60/60	55/55	267	56/55	60/60	55/55	267	56/55	60/60	60/59	271	
		STD	19	20	19	97	20	25	21	99	21	25	25	22	99	23	25	22	99	23	25	22	99	23	25	24	101
		MED	20	25	20	113	21	25	22	115	22	25	25	23	115	24	25	23	115	24	25	23	115	24	25	25	117
		HIGH	22	25	23	130	24	30	25	132	25	30	24	26	132	26	30	26	132	26	30	26	132	26	30	28	134
48TC*D09	575-3-60	STD	14	15	14	79	18	20	19	83	16	20	16	81	19	25	16	81	19	25	16	81	19	25	21	85	
		MED	16	20	16	92	19	25	21	96	17	20	18	94	21	25	18	94	21	25	18	94	21	25	23	98	
		HIGH	18	20	18	106	22	25	23	110	20	25	20	108	23	25	20	108	23	25	20	108	23	25	24	112	
		STD	41/41	50/50	43/42	212	45/45	50/50	47/47	216	46/46	60/60	46/46	217	50/49	60/60	46/46	216	46/46	60/60	46/46	216	46/46	60/60	52/52	221	
		MED	42/42	50/50	44/44	216	46/46	60/50	48/48	220	47/47	60/60	47/47	221	51/51	60/60	47/47	221	51/51	60/60	47/47	221	51/51	60/60	54/54	225	
		HIGH	46/45	60/50	48/47	266	50/49	60/60	53/52	270	51/50	60/60	53/52	271	55/54	60/60	53/52	271	55/54	60/60	53/52	271	55/54	60/60	58/57	275	
48TC*D12	208/230-3-60	STD	19	25	20	111	21	25	22	113	21	25	22	113	23	25	22	113	23	25	22	113	23	25	24	115	
		MED	20	25	21	114	22	25	23	116	22	25	23	116	24	25	23	116	24	25	23	116	24	25	25	118	
		HIGH	21	25	22	139	23	25	24	141	23	25	23	141	25	25	24	141	25	25	24	141	25	30	26	143	
		STD	17	20	17	87	21	25	21	91	18	20	18	89	22	20	19	89	22	20	19	89	22	20	23	93	
		MED	17	20	18	91	21	25	22	95	19	25	19	93	23	25	20	93	23	25	20	93	23	25	24	97	
		HIGH	18	20	19	100	22	25	23	104	20	25	20	102	24	25	21	102	24	25	21	102	24	25	25	106	
48TC*D12	575-3-60	STD	46/46	60/60	48/47	255	50/50	60/60	52/52	259	51/51	60/60	53/53	260	55/54	60/60	53/53	260	55/54	60/60	53/53	260	55/54	60/60	58/57	264	
		MED	50/49	60/60	52/51	305	54/53	60/60	56/55	309	55/54	60/60	56/55	310	58/57	60/60	56/55	310	58/57	60/60	56/55	310	58/57	60/60	62/61	314	
		HIGH	53/52	60/60	55/54	316	56/55	60/60	60/59	320	57/56	60/60	60/59	321	61/60	60/60	60/59	321	61/60	60/60	60/59	321	61/60	60/60	65/64	325	
		STD	23	30	24	122	25	30	26	124	25	30	26	124	27	30	26	124	27	30	26	124	27	30	29	126	
		MED	24	30	25	147	26	30	27	149	26	30	27	149	28	30	28	149	28	30	28	149	28	30	30	151	
		HIGH	26	30	27	152	28	30	29	154	28	30	29	154	30	30	29	154	30	30	29	154	30	35	32	156	
48TC*D12	575-3-60	STD	18	20	19	95	22	25	23	99	20	25	21	97	24	25	21	97	24	25	21	97	24	25	25	101	
		MED	19	25	20	104	23	25	24	108	21	25	22	106	25	25	22	106	25	25	22	106	25	30	26	110	
		HIGH	21	25	22	118	25	30	26	122	23	30	26	122	24	30	26	122	24	30	26	122	24	30	28	124	

See: "Legend and Notes for Tables 1 and 2" on page 10.

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

UNIT	NOM. V-Ph-Hz	IFM TYPE	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)						
			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				
48TC*D14	208/230-3-60	STD	62/61	80/80	65/64	357	66/65	80/80	69/68	361	67/66	80/80	70/69	362	71/70	80/80	75/74	366
		MED	64/63	80/80	67/66	381	68/67	80/80	72/70	385	69/68	80/80	73/72	386	73/72	80/80	77/76	390
		HIGH	67/66	80/80	70/69	392	71/70	80/80	75/74	396								
	575-3-60	STD	30	40	31	180	32	40	33	182	33	40	34	182	34	40	36	184
		MED	31	40	33	192	33	40	35	194	34	40	35	194	35	45	37	196
		HIGH	33	40	34	197	35	40	36	199	35	45	37	199	37	45	39	201
48TC*D16	208/230-3-60	STD	24	30	25	142	28	30	30	146	26	30	27	144	30	35	32	148
		MED	24	30	25	142	28	30	30	146	26	30	27	144	30	35	32	148
		HIGH	26	30	27	156	30	35	32	160	28	30	29	158	32	35	34	162
	575-3-60	STD	70/69	80/80	73/72	393	74/73	80/80	77/76	397	75/74	90/80	78/77	398	78/78	100/100	82/82	402
		MED	72/71	80/80	75/74	417	76/75	100/90	79/78	421	77/76	100/100	81/79	422	81/80	100/100	85/84	426
		HIGH	82	100	86	432	85	100	91	436	86	100	92	437	90	100	96	441
575-3-60	STD	35	45	36	233	37	45	38	235	37	45	38	235	39	50	40	237	
	MED	36	45	37	245	38	50	39	247	38	50	40	247	40	50	42	249	
	HIGH	41	50	43	252	43	50	45	254	43	50	46	254	45	50	48	256	
575-3-60	STD	29	35	30	184	32	40	34	188	30	35	32	186	34	40	36	190	
	MED	29	35	30	184	32	40	34	188	30	35	32	186	34	40	36	190	
	HIGH	33	40	35	196	37	45	39	200	35	40	37	198	39	45	41	202	

See: "Legend and Notes for Tables 1 and 2" on page 10.

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.

