

**48/50TC 15–25 Nominal Tons
Single Package Rooftop, Horizontal Air Flow
Gas Heating/Electric Cooling Unit
& Cooling Only/Electric Heat Unit
with Puron® (R–410A) Refrigerant
Sizes: 18–29**



Electrical Data Supplement

FOR MODELS PRODUCED ON OR AFTER JUNE 1, 2015 ONLY!

NOTE: Read the entire instruction manual before starting the installation

This supplement only applies to 48/50TC Horizontal Air Flow size 18-29 units manufactured on or after June 1, 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 2315 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	3	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.

C150242

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 48/50TC size 18-29 units manufactured on or after June 1, 2015. Check the first 4 digits of the unit's Serial Number (located on the unit's nameplate) if the number listed is 2315 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 – 48TC 18-25 Unit Wire/Fuse or HACR Breaker Sizing Data - Single Speed Indoor Fan Motor

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	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			
48TC**18	208/230-3-60	STD	69.2/69.1	90/90	72/72	409	81.0/80.9	100/100	86/86	429	78/78	414	85.8/85.7	100/100	91/91	494	
		MED	71.4	90	75	423	83.2	100	88	443	80	428	88.0	100	94	448	
		HIGH	74.4/73.5	90/90	78/77	425	86.2/85.3	100/100	92/91	445	84/83	430	91.0/90.1	100/100	97/96	450	
	460-3-60	STD	35.7	45	37	242	41.9	50	45	254	40	244	44.1	50	47	256	
		MED	36.8	45	39	249	43.0	50	46	261	41	251	45.2	50	48	263	
		HIGH	37.9	50	40	250	44.1	50	47	262	42	252	46.3	50	50	264	
48TC**21	575-3-60	STD	26.2	30	27	184	31.0	40	33	192	29	186	32.7	40	35	194	
		MED	26.2	30	27	184	31.0	40	33	192	29	186	32.7	40	35	194	
		HIGH	29.0	35	31	198	33.8	40	36	206	30	200	35.5	45	38	208	
	208/230-3-60	STD	76.1	100	80	453	87.9	100	93	473	85	458	92.7	100	99	478	
		MED	79.1/78.2	100/100	83/82	455	90.9/90.0	100/100	97/96	475	89/88	460	95.7/94.8	110/110	102/101	480	
		HIGH-High Efficiency	82.6	100	87	451	94.4	110	101	471	93	456	99.2	125	106	476	
48TC**25	208/230-3-60	STD	37.1	45	39	251	43.3	50	46	263	42	253	45.5	50	49	265	
		MED	38.2	50	40	252	44.4	50	47	264	43	254	46.6	50	50	266	
		HIGH-High Efficiency	40.4	50	43	250	46.6	50	50	262	45	252	48.8	60	52	264	
	575-3-60	STD	26.2	30	27	186	31.0	40	33	194	29	188	32.7	40	35	196	
		MED	29.0	35	31	200	33.8	40	36	208	33	202	35.5	45	38	210	
		HIGH-High Efficiency	31.0	40	33	198	35.8	45	38	206	35	200	37.5	45	40	208	
48TC**25	208/230-3-60	STD	87.3/86.4	100/100	92/91	550	99.1/98.2	125/125	105/104	570	92.1/91.2	555	103.9/103.0	125/125	111/110	575	
		MED-High Efficiency	90.8	100	96	546	102.6	125	109	566	95.6	125	101	107.4	125	115	571
		HIGH-High Efficiency	102.2	125	109	625	114.0	125	122	645	107.0	125	114	118.8	150	128	650
	460-3-60	STD	47.6	60	50	280	53.8	60	57	292	52	282	56.0	70	60	294	
		MED-High Efficiency	49.8	60	52	278	56.0	70	60	290	55	280	58.2	70	62	292	
		HIGH-High Efficiency	55.5	60	59	318	61.7	70	66	330	57.7	70	62	63.9	80	69	332
575-3-60	STD	35.5	45	37	204	40.3	50	43	212	39	206	42.0	50	45	214		
	MED-High Efficiency	37.5	45	40	202	42.3	50	45	210	42	204	44.0	50	47	212		
	HIGH-High Efficiency	39.4	50	42	229	44.2	50	47	237	44	231	45.9	50	49	239		

See: "Legend and Notes for Tables 1 - 4" on page 11.

Table 2 – 48TC 18-29 Unit Wire/Fuse or HACR Breaker Sizing Data - 2-Speed Indoor Fan Motor

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	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		
48TC**18	208/230-3-60	STD	69.4/68.6	90/90	73/72	390	81.2/80.4	100/100	86/85	410	78/77	395	86.0/85.2	100/100	92/91	415
		MED	71.6/70.6	90/90	75/74	414	83.4/82.4	100/100	89/88	434	81/79	419	88.2/87.2	100/100	94/93	439
		HIGH	74.4/73.5	90/90	78/77	425	86.2/85.3	100/100	92/91	445	84/83	430	91.0/90.1	100/100	97/96	450
	460-3-60	STD	35.3	45	37	233	41.5	50	44	245	39	235	43.7	50	47	247
		MED	36.4	45	38	245	42.6	50	45	257	41	247	44.8	50	48	259
		HIGH	37.9	50	40	250	44.1	50	47	262	42	252	46.3	50	50	264
48TC**21	575-3-60	STD	27.9	35	29	184	32.7	40	35	192	31	186	34.4	40	37	194
		MED	27.9	35	29	184	32.7	40	35	192	31	186	34.4	40	37	194
		HIGH	29.6	35	31	198	34.4	40	37	206	33	200	36.1	45	39	208
	208/230-3-60	STD	76.3/75.3	100/100	80/79	444	88.1/87.1	100/100	93/92	464	85/84	449	92.9/91.9	100/100	99/98	489
		MED	79.1/78.2	100/100	83/82	455	90.9/90.0	100/100	97/96	475	89/88	460	95.7/94.8	110/110	102/101	480
		HIGH	82.6	100	87	451	94.4	110	101	471	93	456	99.2	125	106	476
48TC**25	460-3-60	STD	36.7	45	39	247	42.9	50	46	259	41	249	45.1	50	48	261
		MED	38.2	50	40	252	44.4	50	47	264	43	254	46.6	50	50	266
		HIGH	40.4	50	43	250	46.6	50	50	262	45	252	48.8	60	52	264
	460-3-60	STD	27.9	35	29	186	32.7	40	35	194	31	188	34.4	40	37	196
		MED	29.6	35	31	200	34.4	40	37	208	33	202	36.1	45	39	210
		HIGH	31.0	40	33	198	35.8	45	38	206	35	200	37.5	45	40	208
48TC**29	208/230-3-60	STD	87.3/86.4	100/100	92/91	550	99.1/98.2	125/125	105/104	570	92.1/91.2	555	103.9/103.0	125/125	111/110	575
		MED	90.8	100	96	546	102.6	125	109	566	95.6	551	107.4	125	115	571
		HIGH	102.2	125	109	625	114.0	125	122	645	107.0	630	118.8	150	128	650
	460-3-60	STD	47.6	60	50	280	53.8	60	57	292	52	282	56.0	70	60	294
		MED	49.8	60	52	278	56.0	70	60	290	55	280	58.2	70	62	292
		HIGH	55.5	60	59	318	61.7	70	66	330	62	320	63.9	80	69	332
48TC**29	575-3-60	STD	36.1	45	38	204	40.9	50	43	212	40	206	42.6	50	45	214
		MED	37.5	45	40	202	42.3	50	45	210	42	204	44.0	50	47	212
		HIGH	39.4	50	42	229	44.2	50	47	237	44	231	45.9	50	49	239
	460-3-60	STD	119.5	150	124	586	131.3	175	137	606	129	591	136.1	175	143	611
		MED	130.9	175	137	665	142.7	175	150	685	142	670	147.5	175	156	690
		HIGH	130.9	175	137	665	142.7	175	150	685	142	670	147.5	175	156	690
460-3-60	STD	55.2	60	58	304	61.4	70	65	316	61	306	63.6	80	68	318	
	MED	60.9	70	65	344	67.1	80	72	356	67	346	69.3	80	74	358	
	HIGH	60.9	70	65	344	67.1	80	72	356	67	346	69.3	80	74	358	
575-3-60	MED	42.4	50	45	226	47.2	60	50	234	46	228	48.9	60	52	236	
	HIGH	44.3	50	47	253	49.1	60	52	261	49	255	50.8	60	54	263	

See: "Legend and Notes for Tables 1 – 4" on page 11.

Table 4 – 50TC 18-29 Unit Wire/Fuse or HACR Breaker Sizing Data - 2-Speed Indoor Fan Motor

UNIT	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	MAX FUSE OF HACR BRKR	FLA	DISC. SIZE		MCA	MAX FUSE OF HACR BRKR	FLA	DISC. SIZE	LRA	MCA	MAX FUSE OF HACR BRKR	FLA	DISC. SIZE	LRA	MCA	MAX FUSE OF HACR BRKR	FLA	DISC. SIZE	LRA
50TC**18	STD	NONE	-	-	69.4/68.6	90/90	73/72	390	81.2/80.4	100/100	86/85	410	74.2/73.4	90/90	78/77	395	86.0/85.2	100/100	92/91	415	86.0/85.2	100/100	92/91	415
		270A00	18.8/25.0	52.1/60.1	75.9/84.9	90/90	73/78	390/390	90.6/98.6	100/100	86/92	410/410	81.9/90.9	90/100	78/84	395/395	96.6/105.6	100/110	92/97	415/415	96.6/105.6	100/110	92/97	415/415
		271A00	37.6/50.0	104.2/120.3	141.0/130.1	150/150	130/147	390/390	155.8/144.8	175/150	143/161	410/410	147.0/136.1	150/150	135/153	395/395	161.8/150.8	175/175	149/166	415/415	161.8/150.8	175/175	149/166	415/415
		272A00	56.3/75.0	156.4/180.4	167.2/190.2	200/200	190/216	390/390	181.9/204.9	200/225	203/230	410/410	173.2/196.2	200/225	195/222	395/395	187.9/210.9	200/225	209/236	415/415	187.9/210.9	200/225	209/236	415/415
		NONE	-	-	71.6/70.6	90/90	75/74	414	83.4/82.4	100/100	89/88	434	76.4/75.4	100/100	81/79	419	88.2/87.2	100/100	94/93	439	88.2/87.2	100/100	94/93	439
		270A00	18.8/25.0	52.1/60.1	78.6/87.4	90/90	75/80	414/414	93.4/102.1	100/110	89/94	434/434	84.6/93.4	100/100	81/86	419/419	99.4/108.1	100/110	94/99	439/439	99.4/108.1	100/110	94/99	439/439
50TC**18	HIGH	271A00	37.6/50.0	104.2/120.3	143.8/132.6	150/150	132/150	414/414	158.5/147.3	175/175	146/163	434/434	149.8/138.6	150/150	138/155	419/419	164.5/153.3	175/175	151/169	439/439	164.5/153.3	175/175	151/169	439/439
		272A00	56.3/75.0	156.4/180.4	169.9/192.7	200/225	192/219	414/414	184.7/207.4	200/225	206/232	434/434	175.9/198.7	200/225	198/224	419/419	190.7/213.4	200/225	211/238	439/439	190.7/213.4	200/225	211/238	439/439
		NONE	-	-	74.4/73.5	90/90	78/77	425	86.2/85.3	100/100	92/91	445	79.2/78.3	100/100	84/83	430	91.0/90.1	100/100	97/96	450	91.0/90.1	100/100	97/96	450
		270A00	18.8/25.0	52.1/60.1	82.1/91.0	90/100	78/84	425/425	96.9/105.8	100/110	92/97	445/445	88.1/97.0	100/100	84/89	430/430	102.9/111.8	110/125	97/103	450/450	102.9/111.8	110/125	97/103	450/450
		271A00	37.6/50.0	104.2/120.3	147.3/136.2	150/150	135/153	425/425	162.0/150.9	175/175	149/167	445/445	153.3/142.2	175/175	141/158	430/430	168.0/156.9	175/175	155/172	450/450	168.0/156.9	175/175	155/172	450/450
		272A00	56.3/75.0	156.4/180.4	173.4/196.3	200/225	196/222	425/425	188.2/211.0	200/225	209/236	445/445	179.4/202.3	200/225	201/228	430/430	194.2/217.0	200/250	215/241	450/450	194.2/217.0	200/250	215/241	450/450
50TC**18	STD	NONE	-	-	35.3	45	37	233	41.5	50	44	245	37.5	50.00	39	43.7	50.00	47	247	43.7	50.00	47	247	
		273A00	25.0	30.1	42.4	45	39	233	50.1	60	46	245	45.1	50.00	42	52.9	60.00	49	247	52.9	60.00	49	247	
		274A00	50.0	60.1	64.9	70	73	233	72.6	80	81	245	67.6	80.00	76	75.4	80.00	83	247	75.4	80.00	83	247	
		275A00	75.0	90.2	95.0	100	108	233	102.7	110	115	245	97.7	100	111	105.5	110	118	247	105.5	110	118	247	
		NONE	-	-	36.4	45	38	245	42.6	50	45	257	38.6	50.00	41	44.8	50.00	48	259	44.8	50.00	48	259	
		273A00	25.0	30.1	43.8	45	40	245	51.5	60	47	257	46.5	60.00	43	54.3	60.00	50	259	54.3	60.00	50	259	
50TC**18	MED	274A00	50.0	60.1	66.2	80	75	245	74.0	80	82	257	69.0	80.00	77	76.7	80.00	84	259	76.7	80.00	84	259	
		275A00	75.0	90.2	96.3	100	109	245	104.1	110	116	257	99.1	100	112	106.8	110	119	259	106.8	110	119	259	
		NONE	-	-	37.9	50	40	250	44.1	50	47	262	40.1	50.00	42	46.3	50.00	50	264	46.3	50.00	50	264	
		273A00	25.0	30.1	45.6	50	42	250	53.4	60	49	262	48.4	60.00	45	56.1	60.00	52	264	56.1	60.00	52	264	
		274A00	50.0	60.1	68.1	80	76	250	75.9	80	84	262	70.9	80.00	79	78.6	80.00	86	264	78.6	80.00	86	264	
		275A00	75.0	90.2	98.2	100	111	250	106.0	125	118	262	101.0	110	114	108.7	125	121	264	108.7	125	121	264	
50TC**18	STD	NONE	-	-	27.9	35	29	184	32.7	40	35	192	29.6	35.00	31	34.4	40.00	37	194	34.4	40.00	37	194	
		276A00	24.8	23.9	35.5	40	33	184	41.5	45	38	192	37.6	40.00	35	43.6	45.00	40	194	43.6	45.00	40	194	
		277A00	49.6	47.7	65.3	70	60	184	71.3	80	66	192	67.4	70.00	62	73.4	80.00	68	194	73.4	80.00	68	194	
		278A00	74.4	71.6	77.2	90	88	184	83.2	90	93	192	79.4	90	89	85.4	90	95	194	85.4	90	95	194	
		NONE	-	-	27.9	35	29	184	32.7	40	35	192	29.6	35.00	31	34.4	40.00	37	194	34.4	40.00	37	194	
		276A00	24.8	23.9	35.5	40	33	184	41.5	45	38	192	37.6	40.00	35	43.6	45.00	40	194	43.6	45.00	40	194	
50TC**18	MED	277A00	49.6	47.7	65.3	70	60	184	71.3	80	66	192	67.4	70.00	62	73.4	80.00	68	194	73.4	80.00	68	194	
		278A00	74.4	71.6	77.2	90	88	184	83.2	90	93	192	79.4	90	89	85.4	90	95	194	85.4	90	95	194	
		NONE	-	-	29.6	35	31	198	34.4	40	37	206	31.3	40.00	33	36.1	45.00	39	208	36.1	45.00	39	208	
		276A00	24.8	23.9	37.6	40	35	198	43.6	45	40	206	40.00	37	45.8	50.00	42	208	45.8	50.00	42	208		
		277A00	49.6	47.7	67.4	80	62	198	73.4	80	68	206	69.5	70.00	64	75.5	80.00	69	208	75.5	80.00	69	208	
		278A00	74.4	71.6	79.4	90	89	198	85.4	90	95	206	81.5	90	91	87.5	90	97	208	87.5	90	97	208	

See: "Legend and Notes for Tables 1 – 4 " on page 11.

Table 4 - 50TC 18-29 Unit Wire/Fuse or HACR Breaker Sizing Data - 2-Speed Indoor Fan Motor (cont)

UNIT	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	MAX FUSE OF HACR BRKR	FLA	DISC. SIZE	LRA	MCA	MAX FUSE OF HACR BRKR	FLA	DISC. SIZE	LRA	MCA	MAX FUSE OF HACR BRKR	FLA	DISC. SIZE	LRA	MCA	MAX FUSE OF HACR BRKR	FLA	DISC. SIZE	LRA
50TC*21	STD	NONE	-	-	76.3/75.3	100/100	80/79	444	444	88.1/87.1	100/100	93/92	464	464	81.1/80.1	100/100	85/84	449	449	92.9/91.9	100/100	99/98	469	469
		270A00	18.8/25.0	52.1/60.1	78.6/87.4	100/100	80/80	444/444	444/444	93.4/102.1	100/110	93/94	464/464	464/464	84.9/93.4	100/100	85/86	449/449	449/449	99.4/108.1	100/110	99/99	489/489	489/489
		271A00	37.6/50.0	104.2/120.3	143.8/132.6	150/150	132/150	444/444	444/444	158.5/147.3	175/175	146/163	464/464	464/464	149.8/138.6	150/150	138/155	449/449	449/449	164.5/153.3	175/175	151/169	469/469	469/469
		272A00	56.3/75.0	156.4/180.4	189.9/192.7	200/225	192/219	444/444	444/444	184.7/207.4	200/225	206/232	464/464	464/464	175.9/198.7	200/225	198/224	449/449	449/449	190.7/213.4	200/225	211/238	469/469	469/469
		NONE	-	-	79.1/78.2	100/100	83/82	485	485	90.9/90.0	100/100	97/96	475	475	83.9/83.0	100/100	89/88	460	460	95.7/94.8	110/110	102/101	480	480
		270A00	18.8/25.0	52.1/60.1	82.1/91.0	100/100	83/84	455/455	455/455	96.9/105.8	100/110	97/97	475/475	475/475	88.1/97.0	100/100	89/89	460/460	460/460	102.9/111.8	110/125	102/103	480/480	480/480
		271A00	37.6/50.0	104.2/120.3	147.3/136.2	150/150	135/153	455/455	455/455	162.0/150.9	175/175	149/167	475/475	475/475	153.3/142.2	175/175	141/158	460/460	460/460	188.0/156.9	175/175	155/172	480/480	480/480
		272A00	56.3/75.0	156.4/180.4	173.4/196.3	200/225	196/222	455/455	455/455	188.2/211.0	200/225	209/236	475/475	475/475	179.4/202.3	200/225	201/228	460/460	460/460	194.2/217.0	200/250	215/241	480/480	480/480
		NONE	-	-	82.6	100	87	451	451	94.4	110	101	471	471	87.4	100.00	93	456	456	99.2	125.00	106	476	476
		270A00	18.8/25.0	52.1/60.1	86.5/96.5	100/100	87/89	451/451	451/451	101.3/111.3	110/125	101/102	471/471	471/471	92.5/102.5	100/110	93/94	456/456	456/456	107.3/117.3	125/125	106/108	476/476	476/476
460-3-60	STD	271A00	37.6/50.0	104.2/120.3	151.6/141.7	175/175	139/158	451/451	166.4/156.4	175/175	153/172	471/471	471/471	157.6/147.7	175/175	145/164	456/456	456/456	172.4/162.4	175/175	159/177	476/476	476/476	
		272A00	56.3/75.0	156.4/180.4	177.8/201.8	200/225	200/227	451/451	192.5/216.5	200/250	213/241	471/471	471/471	183.8/207.8	200/225	205/233	456/456	456/456	198.5/222.5	200/250	219/246	476/476	476/476	
		NONE	-	-	36.7	45	39	247	247	42.9	50	46	259	259	38.9	50.00	41	249	249	45.1	50.00	48	261	261
		273A00	25.0	30.1	43.8	45	40	247	247	51.5	60	47	259	259	46.9	50.00	43	249	249	54.3	60.00	50	261	261
		274A00	50.0	60.1	66.2	80	75	247	247	74.0	80	82	259	259	69.0	80.00	77	249	249	76.7	80.00	84	261	261
		275A00	75.0	90.2	96.3	100	109	247	247	104.1	110	116	259	259	99.1	100	112	249	249	106.8	110	119	261	261
		NONE	-	-	38.2	50	40	252	252	44.4	50	47	264	264	40.4	50.00	43	254	254	46.6	50.00	50	266	266
		273A00	25.0	30.1	45.6	50	42	252	252	53.4	60	49	264	264	48.4	50.00	45	254	254	56.1	60.00	52	266	266
		274A00	50.0	60.1	68.1	80	76	252	252	75.9	80	84	264	264	70.9	80.00	79	254	254	78.6	80.00	86	266	266
		275A00	75.0	90.2	98.2	100	111	252	252	106.0	125	118	264	264	101.0	110	114	254	254	108.7	125	121	266	266
575-3-60	HIGH	NONE	-	-	40.4	50	43	250	250	46.6	50	50	262	262	42.6	50.00	45	252	252	48.8	60.00	52	264	264
		273A00	25.0	30.1	48.4	50	45	250	250	56.1	60	52	262	262	51.1	60.00	47	252	252	58.9	60.00	54	264	264
		274A00	50.0	60.1	70.9	80	79	250	250	78.6	80	86	262	262	73.6	80.00	82	252	252	81.4	90.00	89	264	264
		275A00	75.0	90.2	101.0	110	114	250	250	108.7	125	121	262	262	103.7	125	116	252	252	111.5	125	123	264	264
		NONE	-	-	27.9	35	29	186	186	32.7	40	35	194	194	29.6	35.00	31	188	188	34.4	40.00	37	196	196
		276A00	24.8	23.9	35.5	40	33	186	186	41.5	45	38	194	194	37.6	40.00	35	188	188	43.6	45.00	40	196	196
		277A00	49.6	47.7	65.3	70	60	186	186	71.3	80	66	194	194	67.4	70.00	62	188	188	73.4	80.00	68	196	196
		278A00	74.4	71.6	77.2	90	88	186	186	83.2	90	83	194	194	79.4	90	89	188	188	85.4	90	95	196	196
		NONE	-	-	29.6	35	31	200	200	34.4	40	37	208	208	31.3	40.00	33	202	202	36.1	45.00	39	210	210
		276A00	24.8	23.9	37.6	40	35	200	200	43.6	45	40	208	208	39.8	40.00	37	202	202	45.8	50.00	42	210	210
50TC*21	MED	277A00	49.6	47.7	67.4	70	62	200	200	73.4	80	68	208	208	69.5	70.00	64	202	202	75.5	80.00	69	210	210
		278A00	74.4	71.6	79.4	90	89	200	200	85.4	90	95	208	208	81.5	90	91	202	202	87.5	90	97	210	210
		NONE	-	-	31.0	40	33	198	198	35.8	45	38	206	206	32.7	40.00	35	200	200	37.5	45.00	40	208	208
		276A00	24.8	23.9	39.4	40	36	198	198	45.4	50	42	206	206	41.5	45.00	38	200	200	44.5	50.00	44	208	208
		277A00	49.6	47.7	69.1	70	64	198	198	75.1	80	69	206	206	71.3	80.00	66	200	200	77.3	80.00	71	208	208
		278A00	74.4	71.6	81.1	90	91	198	198	87.1	90	97	206	206	83.2	90	93	200	200	89.2	90	99	208	208

See: "Legend and Notes for Tables 1 - 4" on page 11.

Table 4 - 50TC 18-29 Unit Wire/Fuse or HACR Breaker Sizing Data - 2-Speed Indoor Fan Motor (cont)

UNIT	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	MAX FUSE OF HACR BRKR	FLA	DISC. SIZE	LRA	MCA	MAX FUSE OF HACR BRKR	FLA	DISC. SIZE	LRA	MCA	MAX FUSE OF HACR BRKR	FLA	DISC. SIZE	LRA	MCA	MAX FUSE OF HACR BRKR	FLA	DISC. SIZE	LRA			
50TC**25	STD	NONE	-	-	87.3/86.4	100/100	92/91	550	546/546	105/104	570	92.1/91.2	100/100	97/96	555	555/555	103.9/103.0	125/125	111/110	575	575/575	111/110	111/110	125/125	125/125	111/110	575/575
		270A00	18.8/25.0	52.1/60.1	87.3/91.0	100/100	92/91	550/550	546/546	105/104	570/570	92.1/91.2	100/100	97/96	555/555	555/555	103.9/111.8	125/125	111/110	575/575	575/575	111/110	111/110	125/125	125/125	111/110	575/575
		271A00	37.6/50.0	104.2/120.3	147.3/136.2	150/150	135/153	550/550	546/546	149/167	570/570	153.3/142.2	175/175	141/158	555/555	555/555	168.0/156.9	175/175	155/172	575/575	575/575	155/172	155/172	175/175	175/175	155/172	575/575
		272A00	56.3/75.0	156.4/180.4	173.4/196.3	200/225	196/222	550/550	546/546	209/236	570/570	179.4/202.3	200/225	201/228	555/555	555/555	194.2/217.0	200/225	215/241	575/575	575/575	215/241	215/241	200/250	200/250	215/241	575/575
		NONE	-	-	90.8	100	96	546	546/546	109	566	95.6	125.00	101	551	551	107.4	125.00	115	571	571	115	115	125.00	125.00	115	571
		270A00	18.8/25.0	52.1/60.1	90.8/96.5	100/100	96/96	546/546	546/546	109/109	566/566	95.6/102.5	125/125	101/101	551/551	551/551	107.4/117.3	125/125	115/115	571/571	571/571	115/115	115/115	125/125	125/125	115/115	571/571
271A00	37.6/50.0	104.2/120.3	151.6/141.7	175/175	139/158	546/546	546/546	153/172	566/566	157.6/147.7	175/175	145/164	551/551	551/551	172.4/162.4	175/175	159/177	571/571	571/571	159/177	159/177	200/200	200/200	159/177	571/571		
272A00	56.3/75.0	156.4/180.4	177.8/201.8	200/225	200/227	546/546	546/546	213/241	566/566	183.8/207.8	200/225	205/233	551/551	551/551	198.5/222.5	200/225	219/246	571/571	571/571	219/246	219/246	232/259	232/259	219/246	571/571		
460-3-60	STD	NONE	-	-	102.2	125	109	625	625	122	645	107.0	125.00	114	630	630	118.8	150.00	128	650	650	128	128	150.00	150.00	128	650
		270A00	18.8/25.0	52.1/60.1	102.2/110.8	125/125	109/109	625/625	625/625	122/122	645/645	107.0/116.8	125/125	114/114	630/630	630/630	121.5/131.5	150/150	128/128	650/650	650/650	128/128	128/128	150/150	150/150	128/128	650/650
		271A00	37.6/50.0	104.2/120.3	165.9/155.9	175/175	153/171	625/625	625/625	166/185	645/645	171.9/161.9	200/175	158/177	630/630	630/630	186.6/176.7	200/200	172/190	650/650	650/650	172/190	172/190	200/200	200/200	172/190	650/650
		272A00	56.3/75.0	156.4/180.4	192.0/216.0	200/250	213/240	625/625	625/625	226/254	645/645	198.0/222.0	225/250	218/246	630/630	630/630	212.8/236.8	225/250	232/259	650/650	650/650	232/259	232/259	232/259	232/259	232/259	650/650
		NONE	-	-	47.6	60	50	280	280	57	292	49.8	60.00	52	282	282	56.0	70.00	60	294	294	60	60	70.00	70.00	60	294
		273A00	25.0	30.1	47.6	60	50	280	280	57	292	49.8	60.00	52	282	282	56.1	70.00	60	294	294	60	60	70.00	70.00	60	294
50TC**25	MED	274A00	50.0	60.1	68.1	80	76	280	280	84	292	70.9	80.00	79	282	282	78.6	80.00	86	294	294	79	79	80.00	80.00	86	294
		275A00	75.0	90.2	98.2	100	111	280	280	118	292	101.0	125	116	280	280	108.7	125	123	294	294	114	114	125	125	123	294
		NONE	-	-	49.8	60	52	278	278	60	290	52.0	60.00	55	280	280	58.2	70.00	62	292	292	55	55	70.00	70.00	62	292
		273A00	25.0	30.1	49.8	60	52	278	278	60	290	52.0	60.00	55	280	280	58.9	70.00	62	292	292	55	55	70.00	70.00	62	292
		274A00	50.0	60.1	70.9	80	79	278	278	86	290	73.6	80.00	82	280	280	81.4	90.00	89	292	292	82	82	90.00	90.00	89	292
		275A00	75.0	90.2	101.0	110	114	278	278	121	290	103.7	125	116	280	280	111.5	125	123	294	294	116	116	125	125	123	294
575-3-60	HIGH	NONE	-	-	55.5	60	59	318	318	66	330	57.7	70.00	62	320	320	63.9	80.00	69	332	332	62	62	80.00	80.00	69	332
		273A00	25.0	30.1	55.5	60	59	318	318	66	330	58.3	70.00	62	320	320	66.0	80.00	69	332	332	62	62	80.00	80.00	69	332
		274A00	50.0	60.1	78.0	80	86	318	318	93	330	80.7	90.00	88	320	320	88.5	100.00	95	332	332	88	88	100.00	100.00	95	332
		275A00	75.0	90.2	108.1	125	120	318	318	127	330	110.8	125	123	320	320	118.6	125	130	332	332	123	123	125	125	130	332
		NONE	-	-	36.1	45	38	204	204	43	212	37.8	45.00	40	206	206	42.6	50.00	45	214	214	40	40	50.00	50.00	45	214
		276A00	24.8	23.9	37.6	45	38	204	204	43	212	39.8	45.00	40	206	206	45.8	50.00	45	214	214	40	40	50.00	50.00	45	214
575-3-60	STD	277A00	49.6	47.7	67.4	70	62	204	204	68	212	69.5	70.00	64	206	206	75.5	80.00	69	214	214	64	64	80.00	80.00	69	214
		278A00	74.4	71.6	79.4	90	89	204	204	95	212	81.5	90	91	206	206	87.5	90	97	214	214	91	91	90	90	97	214
		NONE	-	-	37.5	45	40	202	202	45	210	39.2	50.00	42	204	204	44.0	50.00	47	212	212	42	42	50.00	50.00	47	212
		276A00	24.8	23.9	39.4	45	40	202	202	45	210	41.5	50.00	42	204	204	47.5	50.00	47	212	212	42	42	50.00	50.00	47	212
		277A00	49.6	47.7	69.1	70	64	202	202	69	210	71.3	80.00	66	204	204	77.3	80.00	71	212	212	66	66	80.00	80.00	71	212
		278A00	74.4	71.6	81.1	90	91	202	202	97	210	83.2	90	93	204	204	89.2	90	99	212	212	93	93	90	90	99	212
575-3-60	MED	NONE	-	-	39.4	50	42	229	229	47	237	41.1	50.00	44	231	231	45.9	50.00	49	239	239	44	44	50.00	50.00	49	239
		276A00	24.8	23.9	41.8	50	42	229	229	47	237	43.9	50.00	44	231	231	49.9	50.00	49	239	239	44	44	50.00	50.00	49	239
		277A00	49.6	47.7	71.5	80	66	229	229	71	237	73.6	80.00	68	231	231	79.6	80.00	73	239	239	68	68	80.00	80.00	73	239
		278A00	74.4	71.6	83.5	90	83	229	229	99	237	85.6	90	95	231	231	91.6	100	101	239	239	95	95	100	100	101	239

See: "Legend and Notes for Tables 1 - 4" on page 11.

Legend and Notes for Tables 1 - 4

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
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

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

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.

