

**48/50HC 20 & 25 Nominal Tons
Single Package Rooftop
Gas Heating/Electric Cooling Unit
& Cooling Only/Electric Heat Unit
with Puron® (R-410A) Refrigerant
Sizes: 24 & 28**



Electrical Data Supplement

FOR MODELS PRODUCED ON OR AFTER APRIL 18, 2016 ONLY!

NOTE: Read the entire instruction manual before starting the installation.

This supplement only applies to 48/50HC size 24 and 28 units manufactured on or after April 18, 2016. 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 1716 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:	1	7	1	6	X	1	2	3	4	5


Week of manufacture (fiscal calendar)	Sequence number
Year of manufacture ("16" = 2016)	Manufacturing location

C160040

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/NFPA 70, 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 48/50HC size 24 and 28 units manufactured on or after April 18, 2016. Check the first 4 digits of the unit's Serial Number (located on the unit's nameplate); if the number listed is 1716 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 24 & 28 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/ 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				
48HC**24	208/230-3-60	STD	86.6	100	91	574	98.4	125	105	594	91.4	100	97	579	103.2	125	111	599
		MED-High Efficiency	86.6	100	91	574	98.4	125	105	594	91.4	100	97	579	103.2	125	111	599
		HIGH-High Efficiency	98.0	125	105	653	109.8	125	118	673	102.8	125	110	658	114.6	125	124	678
	460-3-60	STD	45.3	50	48	310	51.5	60	55	322	47.5	60	50	312	53.7	60	58	324
		MED-High Efficiency	45.3	50	48	310	51.5	60	55	322	47.5	60	50	312	53.7	60	58	324
		HIGH-High Efficiency	51.0	60	54	350	57.2	70	62	362	53.2	60	57	352	59.4	70	64	364
575-3-60	STD	33.4	40	35	232	38.2	45	41	240	35.1	45	37	234	39.9	50	43	242	
	MED-High Efficiency	35.4	45	37	230	40.2	50	43	238	37.1	45	39	232	41.9	50	45	240	
	HIGH-High Efficiency	37.3	45	40	257	42.1	50	45	265	39.0	50	42	259	43.8	50	47	267	
48HC**28 1	208/230-3-60	STD	116.6/115.7	150/150	120/119	591	128.4/127.5	175/175	134/133	611	121.4/120.5	150/150	126/125	596	133.2/132.3	175/175	139/138	616
		MED-High Efficiency	120.1	150	124	587	131.9	175	138	607	124.9	150	130	592	136.7	175	143	612
		HIGH-High Efficiency	131.5	175	137	666	143.3	175	151	686	136.3	175	143	671	148.1	175	157	681
	460-3-60	STD	51.1	60	53	321	57.3	70	60	333	53.3	60	56	323	59.5	70	63	335
		MED-High Efficiency	53.3	60	56	319	59.5	70	63	331	55.5	70	58	321	61.7	80	66	333
		HIGH-High Efficiency	59.0	70	62	359	65.2	80	70	371	61.2	70	65	361	67.4	80	72	373
575-3-60	STD	40.5	50	42	256	45.3	50	48	264	42.2	50	44	258	47.0	60	50	266	
	MED-High Efficiency	42.5	50	45	254	47.3	60	50	262	44.2	50	47	256	49.0	60	52	264	
	HIGH-High Efficiency	44.4	50	47	281	49.2	60	52	289	46.1	60	49	283	50.9	60	54	291	

1 – STD static is not available on 48HC**28 horizontal.

See: "Legend and Notes for Tables 1 – 8" on page 14.

Table 2 – 48HC 24 & 28 Unit Wire Sizing Data with Factory-Installed HACR Breaker – 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/ P.E. (pwrd fr/ unit)						NO PE.						w/ P.E. (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	MCA	HACR BRKR	FLA	DISC. SIZE	LRA
48HC**24	208/230-3-60	STD	86.6	100	91	57.4	98.4	125	105	594	91.4	100	97	579	103.2	125	111	599									
		MED-High Efficiency	86.6	100	91	57.4	98.4	125	105	594	91.4	100	97	579	103.2	125	111	599									
		HIGH-High Efficiency	98.0	125	105	653	109.8	125	118	673	102.8	125	110	658	114.6	125	124	678									
	460-3-60	STD	45.3	50	48	310	51.5	60	55	322	47.5	60	50	312	53.7	60	58	324									
		MED-High Efficiency	45.3	50	48	310	51.5	60	55	322	47.5	60	50	312	53.7	60	58	324									
		HIGH-High Efficiency	51.0	60	54	350	57.2	70	62	362	53.2	60	57	352	59.4	70	64	364									
575-3-60	STD	33.4	40	35	232	38.2	45	41	240	35.1	45	37	234	39.9	50	43	242										
	MED-High Efficiency	35.4	45	37	230	40.2	50	43	238	37.1	45	39	232	41.9	50	45	240										
	HIGH-High Efficiency	37.3	45	40	257	42.1	50	45	265	39.0	50	42	259	43.8	50	47	267										
48HC**28 1	208/230-3-60	STD	116.6/116.6	150/150	120/119	591	128.4/128.4	175/175	134/133	611	121.4/121.4	150/150	126/125	596	133.2/133.2	175/175	139/138	616									
		MED-High Efficiency	120.1	150	124	587	131.9	175	138	607	124.9	150	130	592	136.7	175	143	612									
		HIGH-High Efficiency	131.5	175	137	666	143.3	175	151	686	136.3	175	143	671	148.1	175	157	691									
	460-3-60	STD	51.1	60	53	321	57.3	70	60	333	53.3	60	56	323	59.5	70	63	335									
		MED-High Efficiency	53.3	60	56	319	59.5	70	63	331	55.5	70	58	321	61.7	80	66	333									
		HIGH-High Efficiency	59.0	70	62	359	65.2	80	70	371	61.2	70	65	361	67.4	80	72	373									
575-3-60	STD	40.5	50	42	256	45.3	50	48	264	42.2	50	44	258	47.0	60	50	266										
	MED-High Efficiency	42.5	50	45	254	47.3	60	50	262	44.2	50	47	256	49.0	60	52	264										
	HIGH-High Efficiency	44.4	50	47	281	49.2	60	52	289	46.1	60	49	283	50.9	60	54	291										

1 – STD static is not available on 48HC**28 horizontal.

See: "Legend and Notes for Tables 1 – 8" on page 14.

Table 3 – 48HC 24 & 28 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/ 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	
48HC**24	208/230-3-60	STD	83.1/82.2	100/100	87/86	578	94.9/94.0	110/110	101/100	598	87.9/87.0	100/100	93/92	583	99.7/98.8	125/125	106/105	603
		MED	86.6	100	91	574	98.4	125	105	594	91.4	100	97	579	103.2	125	111	599
		HIGH	98.0	125	105	653	109.8	125	118	673	102.8	125	48	658	114.6	125	124	678
	460-3-60	STD	43.1	50	45	312	49.3	60	52	324	45.3	50	50	314	51.5	60	55	326
		MED	45.3	50	48	310	51.5	60	55	322	47.5	60	50	312	53.7	60	58	324
		HIGH	51.0	60	54	350	57.2	70	62	362	53.2	60	57	352	59.4	70	64	364
575-3-60	STD	34.0	45	36	232	38.8	50	41	240	35.7	45	38	234	40.5	50	43	242	
	MED	35.4	45	37	230	40.2	50	43	238	37.1	45	39	232	41.9	50	45	240	
	HIGH	37.3	45	40	257	42.1	50	45	265	39.0	50	42	259	43.8	50	47	267	
48HC**28 1	208/230-3-60	STD	116.6/115.7	150/150	120/119	591	128.4/127.5	175/175	134/133	611	121.4/120.5	150/150	126/125	596	133.2/132.3	175/175	139/138	616
		MED	120.1	150	124	587	131.9	175	138	607	124.9	150	130	592	136.7	175	143	612
		HIGH	131.5	175	137	666	143.3	175	151	686	136.3	175	143	671	148.1	175	157	691
	460-3-60	STD	51.1	60	53	321	57.3	70	60	333	53.3	60	56	323	59.5	70	63	335
		MED	53.3	60	56	319	59.5	70	63	331	55.5	70	58	321	61.7	80	66	333
		HIGH	59.0	70	62	359	65.2	80	70	371	61.2	70	65	361	67.4	80	72	373
575-3-60	STD	41.1	50	43	256	45.9	60	49	264	42.8	50	45	258	47.6	60	50	266	
	MED	42.5	50	45	254	47.3	60	50	262	44.2	50	47	256	49.0	60	52	264	
	HIGH	44.4	50	47	281	49.2	60	52	289	46.1	60	49	283	50.9	60	54	291	

1 – STD static is not available on 48HC**28 horizontal.
See: "Legend and Notes for Tables 1 – 8" on page 14.

Table 4 – 48HC 24 & 28 Unit Wire Sizing Data with Factory-Installed HACR Breaker - 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/ P.E. (pwrd fr/ unit)				NO PE.				w/ P.E. (pwrd fr/ unit)				NO PE.				w/ P.E. (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	MCA	HACR BRKR	FLA	DISC. SIZE	LRA
48HC**24	208/230-3-60	STD	83.1/83.1	100/100	87/86	578	94.9/94.9	110/110	101/100	598	87.9/87.9	100/100	93/92	583	99.7/99.7	125/125	106/105	603									
		MED	86.6	100	91	574	96.4	125	105	594	91.4	100	97	579	103.2	125	111	599									
		HIGH	98.0	125	105	653	109.8	125	118	673	102.8	125	110	658	114.6	125	124	678									
	460-3-60	STD	43.1	50	45	312	49.3	60	52	324	45.3	50	48	314	51.5	60	55	326									
		MED	45.3	50	48	310	51.5	60	55	322	47.5	60	50	312	53.7	60	58	324									
		HIGH	51.0	60	54	350	57.2	70	62	382	53.2	60	57	352	59.4	70	64	364									
48HC**28 1	575-3-60	STD	34.0	45	36	232	38.8	50	41	240	35.7	45	38	234	40.5	50	43	242									
		MED	35.4	45	37	230	40.2	50	43	238	37.1	45	39	232	41.9	50	45	240									
		HIGH	37.3	45	40	257	42.1	50	45	265	39.0	50	42	259	43.8	50	47	267									
	208/230-3-60	STD	116.6/116.6	150/150	120/119	591	128.4/128.4	175/175	134/133	611	121.4/121.4	150/150	126/125	596	133.2/133.2	175/175	139/138	616									
		MED	120.1	150	124	587	131.9	175	138	607	124.9	150	130	592	136.7	175	143	612									
		HIGH	131.5	175	137	666	143.3	175	151	686	136.3	175	143	671	148.1	175	157	691									
460-3-60	STD	51.1	60	53	321	57.3	70	60	333	53.3	60	56	323	59.5	70	63	333										
	MED	53.3	60	56	319	59.5	70	63	331	55.5	70	58	321	61.7	80	66	333										
	HIGH	59.0	70	62	359	65.2	80	70	371	61.2	70	65	361	67.4	80	72	373										
575-3-60	STD	41.1	50	43	256	45.9	60	49	264	42.8	50	45	258	47.6	60	50	266										
	MED	42.5	50	45	254	47.3	60	50	262	44.2	50	47	256	49.0	60	52	264										
	HIGH	44.4	50	47	281	49.2	60	52	289	46.1	60	49	283	50.9	60	54	291										

1 – STD static is not available on 48HC**28 horizontal.

See: "Legend and Notes for Tables 1 – 8" on page 14.

Table 5 – 50HC 24 & 28 Unit Wire/Fuse or HACR Breaker Sizing Data - Single-Speed Indoor Fan Motor

UNIT	NOM. V-PH-Hz	ELEC. HTR			NO C.O. or UNPWR C.O.										w/ PWRD C.O.									
		CRHEATER**A00 VERT/HORIZ	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	FLA	DISC. SIZE	MCA	MAX FUSE or HACR BRKR	FLA	DISC. SIZE	MCA	MAX FUSE or HACR BRKR	FLA	DISC. SIZE	MCA	MAX FUSE or HACR BRKR	FLA	DISC. SIZE	MCA	MAX FUSE or HACR BRKR	FLA	DISC. SIZE
FLA	FLA	FLA	FLA	LRA	FLA	FLA	LRA	FLA	FLA	LRA	FLA	FLA	LRA	FLA	FLA	LRA	FLA	FLA	LRA	FLA	FLA	LRA		
50HC**24	460-3-60	STD	NONE	—	—	91	574	86.6	100	91	105	594	91.4	100	97	579	103.2	125	111	111	111	111	599	
			279/270A00	18.8/25.0	52.1/60.1	91/91	574/574	86.6/96.5	100/100	91/91	105/105	594/594	92.5/102.5	100/110	97/97	579/579	107.3/117.3	125/125	111/111	111/111	111/111	111/111	599/599	
			280/271A00	37.6/50.0	104.2/120.3	139/158	574/574	151.6/141.7	175/175	139/158	153/172	594/594	157.6/147.7	175/175	145/164	579/579	172.4/162.4	175/175	159/177	159/177	159/177	159/177	599/599	
			281/272A00	56.3/75.0	156.4/180.4	200/227	574/574	177.8/201.8	200/225	200/227	213/241	594/594	183.8/207.8	200/225	205/233	579/579	196.5/222.5	200/250	219/246	219/246	219/246	219/246	599/599	
50HC**24	460-3-60	MED-High Efficiency	NONE	—	—	91	574	86.6	100	91	105	594	91.4	100	97	579	103.2	125	111	111	111	599		
			279/270A00	18.8/25.0	52.1/60.1	91/91	574/574	86.6/96.5	100/100	91/91	105/105	594/594	92.5/102.5	100/110	97/97	579/579	107.3/117.3	125/125	111/111	111/111	111/111	599/599		
			280/271A00	37.6/50.0	104.2/120.3	139/158	574/574	151.6/141.7	175/175	139/158	153/172	594/594	157.6/147.7	175/175	145/164	579/579	172.4/162.4	175/175	159/177	159/177	159/177	599/599		
			281/272A00	56.3/75.0	156.4/180.4	200/227	574/574	177.8/201.8	200/225	200/227	213/241	594/594	183.8/207.8	200/225	205/233	579/579	196.5/222.5	200/250	219/246	219/246	219/246	599/599		
50HC**24	460-3-60	HIGH-High Efficiency	NONE	—	—	105	653	98.0	125	105	118	673	102.8	125	110	658	114.6	125	124	124	124	678		
			279/270A00	18.8/25.0	52.1/60.1	105/105	653/653	100.8/110.8	125/125	105/105	118/118	673/673	106.8/116.8	125/125	110/110	658/658	121.5/131.5	125/150	124/124	124/124	124/124	678/678		
			280/271A00	37.6/50.0	104.2/120.3	153/171	653/653	165.9/155.9	175/175	153/171	166/185	673/673	171.9/161.9	175/175	158/177	658/658	186.6/176.7	200/200	172/190	172/190	172/190	678/678		
			281/272A00	56.3/75.0	156.4/180.4	213/240	653/653	192.0/216.0	200/250	213/240	226/254	673/673	198.0/222.0	225/250	218/246	658/658	212.8/236.8	200/250	232/259	232/259	232/259	678/678		
50HC**24	460-3-60	STD	NONE	—	—	48	310	45.3	50	48	55	322	47.5	60	50	312	53.7	60	58	58	58	324		
			282/273A00	25.0	30.1	48	310	48.4	50	48	55	322	51.1	60	50	312	58.9	60	58	58	58	324		
			283/274A00	50.0	60.1	79	310	70.9	80	79	86	322	73.6	80	82	312	81.4	90	89	89	89	324		
			284/275A00	75.0	90.2	114	310	101.0	110	114	121	322	103.7	125	116	312	111.5	125	123	123	123	324		
50HC**24	460-3-60	MED-High Efficiency	NONE	—	—	48	310	45.3	50	48	55	322	47.5	60	50	312	53.7	60	58	58	58	324		
			282/273A00	25.0	30.1	48	310	48.4	50	48	55	322	51.1	60	50	312	58.9	60	58	58	58	324		
			283/274A00	50.0	60.1	79	310	70.9	80	79	86	322	73.6	80	82	312	81.4	90	89	89	89	324		
			284/275A00	75.0	90.2	114	310	101.0	110	114	121	322	103.7	125	116	312	111.5	125	123	123	123	324		
50HC**24	460-3-60	HIGH-High Efficiency	NONE	—	—	54	350	51.0	60	54	62	362	53.2	70	57	352	59.4	70	64	64	64	364		
			282/273A00	25.0	30.1	54	350	55.5	60	54	62	362	58.3	70	57	352	66.0	70	64	64	64	364		
			283/274A00	50.0	60.1	86	350	78.0	90	86	93	362	80.7	90	88	352	88.5	100	95	95	95	364		
			284/275A00	75.0	90.2	120	350	108.1	125	120	127	362	110.8	125	123	352	118.6	125	130	130	130	364		
50HC**24	460-3-60	STD	NONE	—	—	35	232	33.4	40	35	41	240	35.1	45	37	234	39.9	50	43	43	43	242		
			285/276A00	24.8	23.9	35	232	36.9	40	35	41	240	39.0	45	37	234	45.0	50	43	43	43	242		
			286/277A00	49.6	47.7	61	232	66.6	70	61	67	240	68.8	70	63	234	74.8	80	69	69	69	242		
			287/278A00	74.4	71.6	89	232	78.6	90	89	94	240	80.7	90	91	234	86.7	90	96	96	96	242		
50HC**24	460-3-60	MED-High Efficiency	NONE	—	—	37	230	35.4	45	37	43	238	37.1	45	39	232	41.9	50	45	45	45	240		
			285/276A00	24.8	23.9	37	230	38.4	45	37	43	238	41.5	45	39	232	47.5	50	45	45	45	240		
			286/277A00	49.6	47.7	64	230	69.1	70	64	69	238	71.3	80	66	232	77.3	80	71	71	71	240		
			287/278A00	74.4	71.6	91	230	81.1	90	91	97	238	83.2	90	93	232	89.2	90	99	99	99	240		
50HC**24	460-3-60	HIGH-High Efficiency	NONE	—	—	40	257	37.3	45	40	45	265	39.0	50	42	259	43.8	50	47	47	47	267		
			285/276A00	24.8	23.9	40	257	41.8	45	40	45	265	43.9	50	42	259	49.9	50	47	47	47	267		
			286/277A00	49.6	47.7	66	257	71.5	80	66	71	265	73.6	80	68	259	79.6	80	73	73	73	267		
			287/278A00	74.4	71.6	93	257	83.5	90	93	99	265	85.6	90	95	259	91.6	100	101	101	101	267		

See: "Legend and Notes for Tables 1 – 8" on page 14.

Table 5 - 50HC 24 & 28 Unit Wire/Fuse or HACR Breaker Sizing Data - Single-Speed Indoor Fan Motor (cont)

UNIT	NOM. V-PH-Hz	IFM-TYPE	ELEC. HTR		NO C.O. or UNPWR C.O.										w/ PWRD C.O.										
			CRHEATER**A00 VERT/HORIZ	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	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**28	460-3-60	STD	NONE	-	-	116.6/115.7	150/150	120/119	591	128.4/127.5	175/175	134/133	611	121.4/120.5	150/150	126/125	596	133.2/132.3	175/175	139/138	616				
			279/270A00	18.8/25.0	52.1/60.1	116.6/115.7	150/150	120/119	591/591	128.4/127.5	175/175	134/133	611/611	121.4/120.5	150/150	126/125	596/596	133.2/132.3	175/175	139/138	616/616				
			280/271A00	37.6/50.0	104.2/120.3	147.3/136.2	150/150	135/153	591/591	162.0/150.9	175/175	149/167	611/611	153.3/142.2	175/175	141/158	596/596	168.0/156.9	175/175	155/172	616/616				
			281/272A00	56.3/75.0	156.4/180.4	173.4/196.3	200/225	196/222	591/591	188.2/211.0	200/225	209/236	611/611	179.4/202.3	200/225	201/228	596/596	194.2/217.0	200/250	215/241	616/616				
			NONE	-	-	120.1	150	124	587	131.9	175	138	607	124.9	150	130	592	136.7	175	143	612				
50HC**28	460-3-60	MED-High Efficiency	279/270A00	18.8/25.0	52.1/60.1	120.1/120.1	150/150	124/124	587/587	131.9/131.9	175/175	138/138	607/607	124.9/124.9	150/150	130/130	592/592	136.7/136.7	175/175	143/143	612/612				
			280/271A00	37.6/50.0	104.2/120.3	151.6/141.7	175/175	139/158	587/587	166.4/156.4	175/175	153/172	607/607	157.6/147.7	175/175	145/164	592/592	172.4/162.4	175/175	159/177	612/612				
			281/272A00	56.3/75.0	156.4/180.4	177.8/201.8	200/225	200/227	587/587	192.5/216.5	200/250	213/241	607/607	183.8/207.8	200/225	205/233	592/592	198.5/222.5	200/250	219/246	612/612				
			NONE	-	-	131.5	175	137	666	143.3	175	151	686	136.3	175	143	671	148.1	175	157	691				
			279/270A00	18.8/25.0	52.1/60.1	131.5/131.5	175/175	137/137	666/666	143.3/143.3	175/175	151/151	686/686	136.3/136.3	175/175	143/143	671/671	148.1/148.1	175/175	157/157	691/691				
50HC**28	460-3-60	STD	282/273A00	25.0	30.1	51.1	80	53	321	57.3	70	60	333	53.3	60	56	323	59.5	70	63	335				
			283/274A00	50.0	60.1	68.1	80	76	321	75.9	80	84	333	70.9	80	79	323	78.6	80	86	335				
			284/275A00	75.0	90.2	98.2	100	111	321	106.0	125	118	333	101.0	110	114	323	108.7	125	121	335				
			NONE	-	-	51.1	60	53	321	57.3	70	60	333	53.3	60	56	323	59.5	70	63	335				
			282/273A00	25.0	30.1	53.3	60	56	319	59.5	70	63	331	55.5	70	58	321	61.7	80	66	333				
50HC**28	460-3-60	MED-High Efficiency	283/274A00	50.0	60.1	70.9	80	79	319	78.6	80	86	331	73.6	80	82	321	81.4	90	89	333				
			284/275A00	75.0	90.2	101.0	110	114	319	108.7	125	121	331	103.7	125	116	321	111.5	125	123	333				
			NONE	-	-	59.0	70	62	359	65.2	80	70	371	61.2	70	65	361	67.4	80	72	373				
			282/273A00	25.0	30.1	59.0	70	62	359	65.2	80	70	371	61.2	70	65	361	67.4	80	72	373				
			283/274A00	50.0	60.1	78.0	80	86	359	85.7	90	93	371	80.7	90	88	361	88.5	100	95	373				
50HC**28	460-3-60	HIGH-High Efficiency	284/275A00	75.0	90.2	108.1	125	120	359	115.8	125	127	371	110.8	125	123	361	118.6	125	130	373				
			NONE	-	-	40.5	50	42	256	45.3	50	48	264	42.2	50	44	258	47.0	60	50	266				
			285/276A00	24.8	23.9	40.5	50	42	256	45.3	50	48	264	42.2	50	44	258	47.0	60	50	266				
			286/277A00	49.6	47.7	66.6	70	61	256	72.6	80	67	264	68.8	70	63	258	74.8	80	69	266				
			287/278A00	74.4	71.6	78.6	90	89	256	84.6	90	94	264	80.7	90	91	258	86.7	90	96	266				
50HC**28	460-3-60	STD	NONE	-	-	42.5	50	45	254	47.3	50	48	262	44.2	50	47	256	49.0	60	52	264				
			285/276A00	24.8	23.9	42.5	50	45	254	47.3	60	50	262	44.2	50	47	256	49.0	60	52	264				
			286/277A00	49.6	47.7	68.1	70	64	254	75.1	80	69	262	71.3	80	66	256	77.3	80	71	264				
			287/278A00	74.4	71.6	81.1	90	91	254	87.1	90	97	262	83.2	90	93	256	89.2	90	99	264				
			NONE	-	-	44.4	50	47	281	49.2	60	52	289	46.1	60	49	283	50.9	60	54	291				
50HC**28	460-3-60	MED-High Efficiency	285/276A00	24.8	23.9	44.4	50	47	281	49.2	60	52	289	46.1	60	49	283	50.9	60	54	291				
			286/277A00	49.6	47.7	71.5	80	66	281	77.5	80	71	289	73.6	80	68	283	79.6	80	73	291				
			287/278A00	74.4	71.6	83.5	90	93	281	89.5	100	99	289	85.6	90	95	283	91.6	100	101	291				
			NONE	-	-	44.4	50	47	281	49.2	60	52	289	46.1	60	49	283	50.9	60	54	291				
			285/276A00	24.8	23.9	44.4	50	47	281	49.2	60	52	289	46.1	60	49	283	50.9	60	54	291				

See: "Legend and Notes for Tables 1 - 8" on page 14.

Table 6 – 50HC 24 & 28 Unit Wire Sizing Data with Factory-Installed HACR Breaker – Single-Speed Indoor Fan Motor

UNIT	NOM. V-PH-Hz	IFIM-TYPE	ELEC. HTR			NO C.O. or UNPWR C.O.										w/ PWRD C.O.									
			CRHEATER***A00 VERT/HORIZ	Nom (kW)	FLA	NO PE.					w/ P.E. (pwrd fr/unit)					NO PE.					w/ P.E. (pwrd fr/unit)				
						MCA	HACR BRKR	FLA	DISC. SIZE FLA LRA	MCA	HACR BRKR	MCA	HACR BRKR	FLA	DISC. SIZE FLA LRA	MCA	HACR BRKR	FLA	DISC. SIZE FLA LRA	MCA	HACR BRKR	FLA	DISC. SIZE FLA LRA		
50HC**24	460-3-60	STD	NONE	-	-	86.6	100	91	574	98.4	125	105	594	91.4	100	97	579	103.2	125	111	599	599/599			
			279/270A00	18.8/25.0	52.1/60.1	96.5/96.5	100/100	91/91	574/574	111.3/111.3	125/125	105/105	594/594	102.5/102.5	110/110	97/97	579/579	117.3/117.3	125/125	111/111	599/599	599/599			
			280/271A00	37.6/50.0	104.2/120.3	151.6/151.6	175/175	139/158	574/574	166.4/166.4	175/175	153/172	594/594	157.6/157.6	175/175	145/164	579/579	172.4/172.4	175/175	159/177	599/599	599/599			
			281/272A00	56.3/75.0	156.4/180.4	201.8/201.8	225/225	200/227	574/574	216.5/216.5	225/250	213/241	594/594	207.8/207.8	225/225	205/233	579/579	222.5/222.5	225/250	219/246	599/599	599/599			
50HC**24	460-3-60	MED-High Efficiency	NONE	-	-	86.6	100	91	574	98.4	125	105	594	91.4	100	97	579	103.2	125	111	599	599/599			
			279/270A00	18.8/25.0	52.1/60.1	96.5/96.5	100/100	91/91	574/574	111.3/111.3	125/125	105/105	594/594	102.5/102.5	110/110	97/97	579/579	117.3/117.3	125/125	111/111	599/599	599/599			
			280/271A00	37.6/50.0	104.2/120.3	151.6/151.6	175/175	139/158	574/574	166.4/166.4	175/175	153/172	594/594	157.6/157.6	175/175	145/164	579/579	172.4/172.4	175/175	159/177	599/599	599/599			
			281/272A00	56.3/75.0	156.4/180.4	201.8/201.8	225/225	200/227	574/574	216.5/216.5	225/250	213/241	594/594	207.8/207.8	225/225	205/233	579/579	222.5/222.5	225/250	219/246	599/599	599/599			
50HC**24	460-3-60	HIGH-High Efficiency	NONE	-	-	98.0	125	105	653	109.8	125	118	673	102.8	125	110	658	114.6	125	124	678	678/678			
			279/270A00	18.8/25.0	52.1/60.1	110.8/110.8	125/125	105/105	653/653	125.5/125.5	150/150	118/118	673/673	116.8/116.8	125/125	110/110	658/658	131.5/131.5	150/150	124/124	678/678	678/678			
			280/271A00	37.6/50.0	104.2/120.3	165.9/165.9	175/175	153/171	653/653	180.6/180.6	200/200	168/185	673/673	171.9/171.9	175/175	158/177	658/658	186.6/186.6	200/200	172/190	678/678	678/678			
			281/272A00	56.3/75.0	156.4/180.4	216.0/216.0	225/250	213/240	653/653	230.8/230.8	250/250	226/254	673/673	222.0/222.0	225/250	218/246	658/658	236.8/236.8	250/250	232/259	678/678	678/678			
50HC**24	460-3-60	STD	NONE	-	-	45.3	50	48	310	51.5	60	55	322	47.5	60	50	312	53.7	60	58	324	324			
			282/273A00	25.0	30.1	48.4	50	48	310	56.1	60	55	322	51.1	60	50	312	58.9	60	58	324	324			
			283/274A00	50.0	60.1	70.9	80	79	310	78.6	80	86	322	73.6	80	82	312	81.4	90	89	324	324			
			284/275A00	75.0	90.2	101.0	110	114	310	108.7	125	121	322	103.7	125	116	312	111.5	125	123	324	324			
50HC**24	460-3-60	MED-High Efficiency	NONE	-	-	45.3	50	48	310	51.5	60	55	322	47.5	60	50	312	53.7	60	58	324	324			
			282/273A00	25.0	30.1	48.4	50	48	310	56.1	60	55	322	51.1	60	50	312	58.9	60	58	324	324			
			283/274A00	50.0	60.1	70.9	80	79	310	78.6	80	86	322	73.6	80	82	312	81.4	90	89	324	324			
			284/275A00	75.0	90.2	101.0	110	114	310	108.7	125	121	322	103.7	125	116	312	111.5	125	123	324	324			
50HC**24	460-3-60	HIGH-High Efficiency	NONE	-	-	51.0	60	54	350	57.2	70	62	362	53.2	60	57	352	59.4	70	64	364	364			
			282/273A00	25.0	30.1	55.5	60	54	350	63.3	70	62	362	58.3	60	57	352	66.0	70	64	364	364			
			283/274A00	50.0	60.1	78.0	80	86	350	85.7	90	93	362	80.7	90	88	352	88.5	100	95	364	364			
			284/275A00	75.0	90.2	108.1	125	120	350	115.8	125	127	362	110.8	125	123	352	118.6	125	130	364	364			
50HC**24	460-3-60	STD	NONE	-	-	33.4	40	35	232	38.2	45	41	240	35.1	45	37	234	39.9	50	43	242	242			
			285/276A00	24.8	23.9	36.9	40	35	232	42.9	45	41	240	39.0	45	37	234	45.0	50	43	242	242			
			286/277A00	49.6	47.7	66.6	70	61	232	72.6	80	67	240	68.8	70	63	234	74.8	80	69	240	240			
			287/278A00	74.4	71.6	78.6	90	89	232	84.6	90	94	240	80.7	90	91	234	86.7	90	96	240	240			
50HC**24	460-3-60	MED-High Efficiency	NONE	-	-	35.4	45	37	230	40.2	50	43	238	37.1	45	39	232	41.9	50	45	240	240			
			285/276A00	24.8	23.9	39.4	45	37	230	45.4	50	43	238	41.5	45	39	232	47.5	50	45	240	240			
			286/277A00	49.6	47.7	68.1	70	64	230	75.1	80	69	238	71.3	80	66	232	77.3	80	71	240	240			
			287/278A00	74.4	71.6	81.1	90	91	230	87.1	90	97	238	83.2	90	93	232	89.2	90	99	240	240			
50HC**24	460-3-60	HIGH-High Efficiency	NONE	-	-	37.3	45	40	257	42.1	50	45	265	39.0	50	42	259	43.8	50	47	267	267			
			285/276A00	24.8	23.9	41.8	45	40	257	47.8	50	45	265	43.9	50	42	259	48.9	50	47	267	267			
			286/277A00	49.6	47.7	71.5	80	66	257	73.6	80	71	265	73.6	80	68	259	79.6	80	73	267	267			
			287/278A00	74.4	71.6	83.5	90	93	257	89.5	100	99	265	85.6	90	95	259	91.6	100	101	267	267			

See: "Legend and Notes for Tables 1 – 8" on page 14.

Table 6 - 50HC 24 & 28 Unit Wire Sizing Data with Factory-Installed HACR Breaker - Single-Speed Indoor Fan Motor (cont)

UNIT	NOM. V-PH-Hz	ELEC. HTR				NO C.O. or UNPWR C.O.												w/ PWRD C.O.													
		IFM-TYPE	ORHEATER**A00 VERT/HORIZ	Nom (kW)	FLA	NO PE.				w/ PE. (pwrd fr/unit)				NO PE.				w/ PE. (pwrd fr/unit)													
						HACR BRKR	MCA	DISC. SIZE FLA	DISC. SIZE LRA	HACR BRKR	MCA	DISC. SIZE FLA	DISC. SIZE LRA	HACR BRKR	MCA	DISC. SIZE FLA	DISC. SIZE LRA	HACR BRKR	MCA	DISC. SIZE FLA	DISC. SIZE LRA										
50HC**28	460-3-60	STD	NONE	-	-	116.6/166	150/150	120/119	591	591	134/133	134/133	611	611	128.4/128.4	128.4/128.4	175/175	175/175	150/150	150/150	126/125	126/125	596	596	133.2/133.2	133.2/133.2	175/175	175/175	139/138	139/138	616
			279/270A00	18.8/25.0	52.1/60.1	116.6/166	150/150	120/119	591/591	591/591	134/133	134/133	611/611	611/611	128.4/128.4	128.4/128.4	175/175	175/175	150/150	150/150	126/125	126/125	596/596	596/596	133.2/133.2	133.2/133.2	175/175	175/175	139/138	139/138	616/616
			280/271A00	37.6/50.0	104.2/120.3	147.3/147.3	150/150	135/153	591/591	591/591	149/167	149/167	611/611	611/611	162.0/162.0	162.0/162.0	175/175	175/175	150/150	150/150	141/158	141/158	596/596	596/596	168.0/168.0	168.0/168.0	175/175	175/175	155/172	155/172	616/616
			281/272A00	56.3/75.0	156.4/180.4	196.3/196.3	200/225	196/222	591/591	591/591	209/236	209/236	611/611	611/611	211.0/211.0	211.0/211.0	225/225	225/225	200/225	200/225	201/228	201/228	596/596	596/596	217.0/217.0	217.0/217.0	225/250	225/250	215/241	215/241	616/616
			NONE	-	-	120.1	150	124	587	587	138	138	607	607	131.9	131.9	175	175	150	150	130	130	592	592	136.7	136.7	175	175	143	143	612
			279/270A00	18.8/25.0	52.1/60.1	120.1/20.1	150/150	124/124	587/587	587/587	138/138	138/138	607/607	607/607	131.9/131.9	131.9/131.9	175/175	175/175	150/150	150/150	130/130	130/130	592/592	592/592	136.7/136.7	136.7/136.7	175/175	175/175	143/143	143/143	612/612
			280/271A00	37.6/50.0	104.2/120.3	151.6/151.6	175/175	139/158	587/587	587/587	153/172	153/172	607/607	607/607	166.4/166.4	166.4/166.4	175/175	175/175	150/150	150/150	145/164	145/164	592/592	592/592	172.4/172.4	172.4/172.4	175/175	175/175	159/177	159/177	612/612
			281/272A00	56.3/75.0	156.4/180.4	201.8/201.8	225/225	200/227	587/587	587/587	213/241	213/241	607/607	607/607	216.5/216.5	216.5/216.5	225/250	225/250	200/227	200/227	205/233	205/233	592/592	592/592	222.5/222.5	222.5/222.5	225/250	225/250	219/246	219/246	612/612
50HC**28	460-3-60	MED-High Efficiency	NONE	-	-	51.1	60	53	321	321	60	60	333	333	57.3	57.3	70	70	60	60	323	323	59.5	59.5	70	70	63	63	335		
			282/273A00	25.0	30.1	51.1	60	53	321	321	60	60	333	333	57.3	57.3	70	70	60	60	323	323	59.5	59.5	70	70	63	63	335		
			283/274A00	50.0	60.1	88.1	80	76	321	321	84	84	333	333	70.9	70.9	80	80	79	79	80	80	323	323	78.6	78.6	80	80	86	86	335
			284/275A00	75.0	90.2	98.2	100	111	321	321	106.0	106.0	125	125	108.7	108.7	125	125	110	110	114	114	323	323	108.7	108.7	125	125	121	121	335
			NONE	-	-	53.3	60	56	319	319	63	63	331	331	59.5	59.5	70	70	60	60	58	58	321	321	61.7	61.7	80	80	66	66	333
			282/273A00	25.0	30.1	53.3	60	56	319	319	63	63	331	331	59.5	59.5	70	70	60	60	58	58	321	321	61.7	61.7	80	80	66	66	333
			283/274A00	50.0	60.1	70.9	80	79	319	319	86	86	331	331	78.6	78.6	80	80	80	80	82	82	321	321	81.4	81.4	90	90	89	89	333
			284/275A00	75.0	90.2	101.0	110	114	319	319	108.7	108.7	125	125	108.7	108.7	125	125	110	110	116	116	321	321	111.5	111.5	125	125	123	123	333
575-3-60	575-3-60	HIGH-High Efficiency	NONE	-	-	59.0	70	62	359	359	70	70	371	371	65.2	65.2	80	80	70	70	361	361	67.4	67.4	80	80	72	72	373		
			282/273A00	25.0	30.1	59.0	70	62	359	359	65.2	65.2	80	80	371	371	65.2	65.2	80	80	70	70	361	361	67.4	67.4	80	80	72	72	373
			283/274A00	50.0	60.1	78.0	80	86	359	359	85.7	85.7	90	90	80.7	80.7	90	90	88	88	361	361	88.5	88.5	100	100	95	95	373		
			284/275A00	75.0	90.2	108.1	125	120	359	359	115.8	115.8	125	125	110.8	110.8	125	125	123	123	361	361	118.6	118.6	125	125	130	130	373		
			NONE	-	-	40.5	50	42	256	256	45.3	45.3	50	50	42.2	42.2	50	50	44	44	258	258	47.0	47.0	60	60	50	50	266		
			285/276A00	24.8	23.9	40.5	50	42	256	256	45.3	45.3	50	50	42.2	42.2	50	50	44	44	258	258	47.0	47.0	60	60	50	50	266		
			286/277A00	49.6	47.7	66.6	70	61	256	256	72.6	72.6	80	80	68.8	68.8	80	80	63	63	258	258	74.8	74.8	80	80	69	69	266		
			287/278A00	74.4	71.6	78.6	90	89	256	256	84.6	84.6	90	90	80.7	80.7	90	90	91	91	258	258	86.7	86.7	90	90	96	96	266		
575-3-60	575-3-60	MED-High Efficiency	NONE	-	-	42.5	50	45	254	254	50	50	262	262	44.2	44.2	60	60	47	47	256	256	49.0	49.0	60	60	52	52	264		
			285/276A00	24.8	23.9	42.5	50	45	254	254	47.3	47.3	60	60	262	262	44.2	44.2	60	60	47	47	256	256	49.0	49.0	60	60	52	52	264
			286/277A00	49.6	47.7	69.1	70	64	254	254	75.1	75.1	80	80	69	69	71.3	71.3	80	80	262	262	77.3	77.3	80	80	71	71	264		
			287/278A00	74.4	71.6	81.1	90	91	254	254	87.1	87.1	90	90	83.2	83.2	90	90	93	93	256	256	89.2	89.2	90	90	99	99	264		
			NONE	-	-	44.4	50	47	281	281	49.2	49.2	60	60	52	52	46.1	46.1	60	60	49	49	283	283	50.9	50.9	60	60	54	54	291
			285/276A00	24.8	23.9	44.4	50	47	281	281	49.2	49.2	60	60	52	52	46.1	46.1	60	60	49	49	283	283	50.9	50.9	60	60	54	54	291
			286/277A00	49.6	47.7	71.5	80	66	281	281	77.5	77.5	80	80	71	71	73.6	73.6	80	80	283	283	79.6	79.6	80	80	73	73	291		
			287/278A00	74.4	71.6	83.5	90	93	281	281	89.5	89.5	100	100	85.6	85.6	91.6	91.6	100	100	283	283	91.6	91.6	101	101	291				

See: "Legend and Notes for Tables 1 - 8" on page 14.

Table 7 – 50HC 24 & 28 Unit Wire/Fuse or HACR Breaker Sizing Data - 2-Speed Indoor Fan Motor

UNIT	NOM. V-PH-Hz	IFM-TYPE	ELEC. HTR		NO C.O. or UNPWR C.O.										w/ PWRD C.O.										
			CRHEATER**A00 VERT/HORIZ	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		MCA	MAX FUSE or HACR BRKR	FLA	DISC. SIZE		MCA	MAX FUSE or HACR BRKR	FLA	DISC. SIZE		MCA	MAX FUSE or HACR BRKR	FLA	DISC. SIZE	
50HC**24	460-3-60	STD	NONE	18.8/25.0	52.1/60.1	83.1/92.2	100/100	87/86	578	94.9/94.0	110/110	101/100	598	87.9/87.0	100/100	93/92	583	98.7/98.8	125/125	106/105	603				
							100/100	87/86	578/578	96.9/105.8	110/110	101/100	598/598	88.1/97.0	100/100	93/92	583/583	102.9/111.8	125/125	106/105	603/603				
							150/150	135/153	578/578	162.0/150.9	175/175	149/167	598/598	153.3/142.2	175/175	141/158	583/583	168.0/156.9	175/175	155/172	603/603				
							200/225	196/222	578/578	188.2/211.0	200/225	209/236	598/598	179.4/202.3	200/225	201/228	583/583	194.2/217.0	200/250	215/241	603/603				
							100	91	574	98.4	125	105	594	91.4	100	97	579	103.2	125	111	599				
50HC**24	460-3-60	MED	279/270A00	18.8/25.0	52.1/60.1	86.6/96.5	100/100	91/91	574/574	101.3/111.3	125/125	105/105	594/594	92.5/102.5	100/110	97/97	579/579	107.3/117.3	125/125	111/111	599/599				
							175/175	139/158	574/574	166.4/156.4	175/175	153/172	594/594	157.6/147.7	175/175	145/164	579/579	172.4/162.4	175/175	159/177	599/599				
							200/225	200/227	574/574	192.5/216.5	200/250	213/241	594/594	183.8/207.8	200/225	205/233	579/579	198.5/222.5	200/250	219/246	599/599				
							125	105	653	109.8	125	118	673	102.8	125	110	658	114.6	125	124	678				
							125/125	105/105	653/653	115.5/125.5	125/150	118/118	673/673	106.8/116.8	125/125	110/110	658/658	121.5/131.5	125/150	124/124	678/678				
50HC**24	460-3-60	STD	NONE	25.0	30.1	45.6	50	45	312	49.3	60	52	324	45.3	50	48	314	51.5	60	55	326				
							50	45	312	53.4	60	52	324	48.4	50	48	314	56.1	60	55	326				
							80	76	312	75.9	80	84	324	70.9	80	79	314	78.6	80	86	326				
							100	111	312	106.0	125	118	324	101.0	110	114	314	108.7	125	121	326				
							50	45	312	49.3	60	52	324	45.3	50	48	314	51.5	60	55	326				
50HC**24	460-3-60	MED	282/273A00	25.0	30.1	48.4	50	48	310	56.1	60	55	322	47.5	60	50	312	53.7	60	58	324				
							80	79	310	78.6	80	86	322	73.6	80	82	312	81.4	90	89	324				
							100	114	310	108.7	125	121	322	103.7	125	116	312	111.5	125	123	324				
							50	45	350	57.2	70	62	362	53.2	60	57	352	59.4	70	64	364				
							50	48	310	56.1	60	55	322	51.1	60	50	312	56.9	60	58	324				
50HC**24	460-3-60	HIGH	NONE	50.0	60.1	78.0	90	86	350	85.7	90	93	362	80.7	90	88	352	88.5	100	95	364				
							125	120	350	115.8	125	127	362	110.8	125	123	352	118.6	125	130	364				
							45	36	232	38.8	50	41	240	35.7	45	38	234	40.5	50	43	242				
							45	36	232	43.6	50	41	240	39.8	45	38	234	45.8	50	43	242				
							70	62	232	73.4	80	68	240	69.5	70	64	234	75.5	80	69	242				
50HC**24	460-3-60	STD	NONE	74.4	71.6	79.4	90	89	232	85.4	90	95	240	81.5	90	91	234	87.5	90	97	242				
							45	37	230	40.2	50	43	238	37.1	45	39	232	41.9	50	45	240				
							45	37	230	45.4	50	43	238	41.5	45	39	232	47.5	50	45	240				
							70	64	230	75.1	80	69	238	71.3	80	66	232	77.3	80	71	240				
							90	91	230	87.1	90	97	238	83.2	90	93	232	89.2	90	99	240				
50HC**24	460-3-60	MED	285/276A00	24.8	23.9	37.6	45	40	257	42.1	50	45	265	39.0	50	42	259	43.8	50	47	267				
							45	40	257	47.8	50	45	265	43.9	50	42	259	48.9	50	47	267				
							80	66	257	77.5	80	71	265	73.6	80	68	259	79.6	80	73	267				
							90	93	257	89.5	100	99	265	85.6	100	95	259	91.6	100	101	267				
							45	40	257	42.1	50	45	265	39.0	50	42	259	43.8	50	47	267				

See: "Legend and Notes for Tables 1 – 8" on page 14.

Table 7 - 50HC 24 & 28 Unit Wire/Fuse or HACR Breaker Sizing Data - 2-Speed Indoor Fan Motor (cont)

UNIT	NOM. V-PH-Hz	IFM-TYPE	ELEC. HTR		NO C.O. or UNPWR C.O.						w/ PWRD C.O.										
			ORHEATER***A00 VERT/HORIZ	Nom (kW)	FLA	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				
50HC*28	460-3-60	STD	NONE	-	-	116.6/115.7	150/150	120/119	591	128.4/127.5	175/175	134/133	611	121.4/120.5	150/150	126/125	596	133.2/132.3	175/175	139/138	616
			279/270A00	18.8/25.0	52.1/60.1	116.6/115.7	150/150	120/119	591/591	128.4/127.5	175/175	134/133	611/611	121.4/120.5	150/150	126/125	596/596	133.2/132.3	175/175	139/138	616/616
			280/271A00	37.6/50.0	104.2/120.3	147.3/136.2	150/150	135/153	591/591	162.0/150.9	175/175	149/167	611/611	153.3/142.2	175/175	141/158	596/596	168.0/156.9	175/175	155/172	616/616
			281/272A00	56.3/75.0	156.4/180.4	173.4/196.3	200/225	196/222	591/591	188.2/211.0	200/225	209/236	611/611	179.4/202.3	200/225	201/228	596/596	194.2/217.0	200/250	215/241	616/616
50HC*28	460-3-60	MED	NONE	-	-	120.1/120.1	150	124	587	131.9	175	138	607	124.9	150	130	592	136.7	175	143	612
			279/270A00	18.8/25.0	52.1/60.1	120.1/120.1	150/150	124/124	587/587	131.9/131.9	175/175	138/138	607/607	124.9/124.9	150/150	130/130	592/592	136.7/136.7	175/175	143/143	612/612
			280/271A00	37.6/50.0	104.2/120.3	151.6/141.7	175/175	139/158	587/587	166.4/156.4	175/175	153/172	607/607	157.6/147.7	175/175	145/164	592/592	172.4/162.4	175/175	159/177	612/612
			281/272A00	56.3/75.0	156.4/180.4	177.8/201.8	200/225	200/227	587/587	192.5/216.5	200/250	213/241	607/607	183.8/207.8	200/225	205/233	592/592	198.5/222.5	200/250	219/246	612/612
50HC*28	460-3-60	HIGH	NONE	-	-	131.5	175	137	666	143.3	175	151	686	136.3	175	143	671	148.1	175	157	691
			279/270A00	18.8/25.0	52.1/60.1	131.5/131.5	175/175	137/137	666/666	143.3/143.3	175/175	151/151	686/686	136.3/136.3	175/175	143/143	671/671	148.1/148.1	175/175	157/157	691/691
			280/271A00	37.6/50.0	104.2/120.3	165.9/155.9	175/175	153/171	666/666	180.8/170.7	200/175	168/185	686/686	171.9/161.9	175/175	158/177	671/671	186.6/176.7	200/200	172/190	691/691
			281/272A00	56.3/75.0	156.4/180.4	192.0/216.0	200/250	213/240	666/666	206.8/230.8	225/250	226/254	686/686	198.0/222.0	225/250	218/246	671/671	212.8/236.8	225/250	232/259	691/691
50HC*28	460-3-60	STD	NONE	-	-	51.1	60	53	321	57.3	70	60	333	53.3	60	56	323	59.5	70	63	335
			282/273A00	25.0	30.1	51.1	60	53	321	57.3	70	60	333	53.3	60	56	323	59.5	70	63	335
			283/274A00	50.0	60.1	68.1	80	76	321	75.9	80	84	333	70.9	80	79	323	78.6	80	86	335
			284/275A00	75.0	90.2	98.2	100	111	321	106.0	125	118	333	101.0	110	114	323	108.7	125	121	335
50HC*28	460-3-60	MED	NONE	-	-	53.3	60	56	319	59.5	70	63	331	55.5	70	58	321	61.7	80	66	333
			282/273A00	25.0	30.1	53.3	60	56	319	59.5	70	63	331	55.5	70	58	321	61.7	80	66	333
			283/274A00	50.0	60.1	70.9	80	79	319	78.6	80	86	331	73.6	80	82	321	81.4	90	89	333
			284/275A00	75.0	90.2	101.0	110	114	319	108.7	125	121	331	103.7	125	116	321	111.5	125	123	333
50HC*28	460-3-60	HIGH	NONE	-	-	59.0	70	62	359	65.2	80	70	371	61.2	70	65	361	67.4	80	72	373
			282/273A00	25.0	30.1	59.0	70	62	359	65.2	80	70	371	61.2	70	65	361	67.4	80	72	373
			283/274A00	50.0	60.1	78.0	80	86	359	85.7	90	93	371	80.7	90	88	361	88.5	100	95	373
			284/275A00	75.0	90.2	108.1	125	120	359	115.8	125	127	371	110.8	125	123	361	118.6	125	130	373
50HC*28	575-3-60	STD	NONE	-	-	41.1	50	43	256	45.9	60	49	264	42.8	50	45	258	47.6	60	50	266
			285/276A00	24.8	23.9	41.1	50	43	256	45.9	60	49	264	42.8	50	45	258	47.6	60	50	266
			286/277A00	49.6	47.7	67.4	70	62	256	73.4	80	68	264	69.5	70	64	258	75.5	80	69	266
			287/278A00	74.4	71.6	79.4	90	89	256	85.4	90	95	264	81.5	90	91	258	87.5	90	97	266
50HC*28	575-3-60	MED	NONE	-	-	42.5	50	45	254	47.3	60	50	262	44.2	50	47	256	48.0	60	52	264
			285/276A00	24.8	23.9	42.5	50	45	254	47.3	60	50	262	44.2	50	47	256	48.0	60	52	264
			286/277A00	49.6	47.7	68.1	70	64	254	75.1	80	69	262	71.3	80	66	256	77.3	80	71	264
			287/278A00	74.4	71.6	81.1	90	91	254	87.1	90	97	262	83.2	90	93	256	89.2	90	99	264
50HC*28	575-3-60	HIGH	NONE	-	-	44.4	50	47	281	49.2	60	52	289	46.1	60	49	283	50.9	60	54	291
			285/276A00	24.8	23.9	44.4	50	47	281	49.2	60	52	289	46.1	60	49	283	50.9	60	54	291
			286/277A00	49.6	47.7	71.5	80	66	281	73.6	80	71	289	73.6	80	68	283	79.6	80	73	291
			287/278A00	74.4	71.6	83.5	90	93	281	89.5	100	99	289	85.6	90	95	283	91.6	100	101	291

See: "Legend and Notes for Tables 1 - 8" on page 14.

Table 8 – 50HC 24 & 28 Unit Wire Sizing Data with Factory-Installed HACR Breaker - 2-Speed Indoor Fan Motor

UNIT	NOM. V-PH-Hz	IFM-TYPE	ELEC. HTR		NO C.O. or UNPWR C.O.						w/ PWRD C.O.								
			CRHEATER***A00 VERT/HORIZ	Nom (kW)	FLA	NO PE.			w/ P.E. (pwrd fr/unit)			NO PE.			w/ P.E. (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		
STD	208/230-3-60	NONE	-	83.1/83.1	100/100	87/86	578	598	101/100	101/100	100/100	99/92	583	583	98.7/98.7	125/125	106/105	603	
				18.8/25.0	100/100	87/86	578/578	598/598	101/100	101/100	100/100	99/92	583/583	111.8/111.8	125/125	106/105	603/603		
				37.6/50.0	150/150	135/153	578/578	598/598	175/175	149/167	153.3/153.3	175/175	158/158	168.0/168.0	175/175	155/172	603/603		
				56.3/75.0	200/225	196/222	578/578	598/598	225/225	209/236	202.3/202.3	225/225	201/228	217.0/217.0	225/250	215/241	603/603		
MED	208/230-3-60	NONE	-	86.6	100	91	574	594	110/110	110/110	100	97	579	103.2	125	111	599		
				18.8/25.0	100/100	91/91	574/574	594/594	125/125	105/105	105.5/102.5	110/110	97/97	579/579	117.3/117.3	125/125	111/111	599/599	
				37.6/50.0	150/150	139/158	574/574	594/594	175/175	153/172	157.6/157.6	175/175	145/164	175/175	159/177	172.4/172.4	175/175	159/177	599/599
				56.3/75.0	225/225	200/227	574/574	594/594	225/250	213/241	207.8/207.8	225/225	205/233	222.5/222.5	219/246	225/250	219/246	599/599	
HIGH	208/230-3-60	NONE	-	98.0	125	105	653	673	118	118	125	118	673	102.8	125	124	678		
				18.8/25.0	125/125	105/105	653/653	673/673	150/150	118/118	116.8/116.8	125/125	110/110	658/658	131.5/131.5	150/150	124/124	678/678	
				37.6/50.0	175/175	153/171	653/653	673/673	200/200	168/185	171.9/171.9	175/175	158/177	186.6/186.6	200/200	172/190	678/678		
				56.3/75.0	225/250	213/240	653/653	673/673	250/250	226/254	222.0/222.0	225/250	218/246	236.8/236.8	250/250	232/259	678/678		
STD	460-3-60	NONE	-	43.1	50	45	312	324	52	52	60	48	314	51.5	60	55	326		
				25.0	50	45	312	324	60	52	48.4	50	48	314	56.1	60	55	326	
				50.0	80	76	312	324	80	84	70.9	80	79	314	78.6	80	86	326	
				75.0	100	111	312	324	125	118	101.0	110	114	314	108.7	125	121	326	
MED	460-3-60	NONE	-	45.3	50	48	310	322	55	55	60	50	322	47.5	60	58	324		
				25.0	50	48	310	322	60	55	51.1	60	50	322	58.9	60	58	324	
				50.0	80	79	310	322	80	86	73.6	80	82	312	81.4	90	89	324	
				75.0	110	114	310	322	125	121	103.7	125	116	312	111.5	125	123	324	
HIGH	460-3-60	NONE	-	51.0	60	54	350	362	62	62	70	62	362	58.2	70	64	364		
				25.0	60	54	350	362	70	62	63.3	60	57	362	66.0	70	64	364	
				50.0	90	86	350	362	90	93	80.7	90	88	362	88.5	100	95	364	
				75.0	125	120	350	362	125	127	115.8	125	123	362	118.6	125	130	364	
STD	575-3-60	NONE	-	34.0	45	36	232	240	41	41	50	41	240	35.7	45	43	242		
				24.8	45	36	232	240	50	41	43.6	45	38	234	40.5	50	43	242	
				49.6	70	62	232	240	70	68	73.4	70	64	234	75.5	80	69	242	
				74.4	90	89	232	240	90	95	85.4	90	91	234	87.5	90	97	242	
MED	575-3-60	NONE	-	35.4	45	37	230	238	43	43	50	43	238	37.1	45	45	240		
				24.8	45	37	230	238	50	43	45.4	45	39	232	41.5	50	45	240	
				49.6	70	64	230	238	70	69	71.3	70	66	232	77.3	80	71	240	
				74.4	90	91	230	238	90	97	83.2	90	93	232	89.2	90	99	240	
HIGH	575-3-60	NONE	-	37.3	45	40	257	265	45	45	50	42	259	43.8	50	47	267		
				24.8	45	40	257	265	50	45	47.8	50	42	259	48.9	50	47	267	
				49.6	80	66	257	265	80	71	73.6	80	68	259	79.6	80	73	267	
				74.4	90	93	257	265	100	99	85.6	90	95	259	91.6	100	101	267	

See: "Legend and Notes for Tables 1 - 8" on page 14.

Table 8 - 50HC 24 & 28 Unit Wire Sizing Data with Factory-Installed HACR Breaker - 2-Speed Indoor Fan Motor (cont)

UNIT	NOM. V-PH-Hz	ELEC. HTR		NO C.O. or UNPWR C.O.										w/ PWRD C.O.									
		ORHEATER**A00 VERT/HORIZ	Nom (kW)	FLA	NO PE.				w/ P.E. (pwrd fr/unit)				NO PE.				w/ P.E. (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			
STD	208/230-3-60	NONE	-	-	120/119	591	611	134/133	175/175	150/150	128.4/128.4	138	607	138	607	121.4/121.4	150/150	126/125	596	133.2/133.2	175/175	139/138	616
		279/270A00	18.8/25.0	52.1/60.1	120/119	591/591	611/611	134/133	175/175	150/150	128.4/128.4	138/138	607/607	138/138	607/607	121.4/121.4	150/150	126/125	596/596	133.2/133.2	175/175	139/138	616/616
		280/271A00	37.6/50.0	104.2/120.3	135/153	591/591	611/611	149/167	175/175	150/150	162.0/162.0	166.4/166.4	153/172	607/607	153/172	153.3/153.3	175/175	141/158	596/596	166.0/168.0	175/175	155/172	616/616
		281/272A00	56.3/75.0	156.4/180.4	196/222	591/591	611/611	209/236	225/225	200/225	211.0/211.0	216.5/216.5	213/241	607/607	213/241	202.3/202.3	225/225	201/228	596/596	217.0/217.0	225/250	215/241	616/616
MED	208/230-3-60	NONE	-	-	124	587	607	138	175	150	131.9	124	607	138	607	124.9	150	130	592	136.7	175	143	612
		279/270A00	18.8/25.0	52.1/60.1	124/124	587/587	607/607	138/138	175/175	150/150	131.9/131.9	137/137	607/607	138/138	607/607	124.9/124.9	150/150	130/130	592/592	136.7/136.7	175/175	143/143	612/612
		280/271A00	37.6/50.0	104.2/120.3	139/158	587/587	607/607	153/172	175/175	150/150	166.4/166.4	166.4/166.4	153/172	607/607	153/172	157.6/157.6	175/175	145/164	592/592	172.4/172.4	175/175	159/177	612/612
		281/272A00	56.3/75.0	156.4/180.4	200/227	587/587	607/607	213/241	225/250	200/227	216.5/216.5	216.5/216.5	213/241	607/607	213/241	207.8/207.8	225/225	205/233	592/592	222.5/222.5	225/250	219/246	612/612
HIGH	208/230-3-60	NONE	-	-	137	666	686	151	175	150	143.3	151	686	151	686	136.3	175	143	671	148.1	175	157	691
		279/270A00	18.8/25.0	52.1/60.1	137/137	666/666	686/686	151/151	175/175	150/150	143.3/143.3	151/151	686/686	151/151	686/686	136.3/136.3	175/175	143/143	671/671	148.1/148.1	175/175	157/157	691/691
		280/271A00	37.6/50.0	104.2/120.3	153/171	666/666	686/686	166/185	200/200	150/150	180.6/180.6	180.6/180.6	166/185	686/686	166/185	171.9/171.9	175/175	158/177	671/671	186.6/186.6	200/200	172/190	691/691
		281/272A00	56.3/75.0	156.4/180.4	213/240	666/666	686/686	226/254	250/250	200/225	230.8/230.8	230.8/230.8	226/254	686/686	226/254	222.0/222.0	225/250	218/246	671/671	236.8/236.8	250/250	232/259	691/691
STD	460-3-60	NONE	-	-	53	321	333	60	70	60	57.3	60	333	60	333	53.3	60	56	323	59.5	70	63	335
		282/273A00	25.0	30.1	53	321	333	60	70	60	57.3	60	333	60	333	53.3	60	56	323	59.5	70	63	335
		283/274A00	50.0	60.1	76	321	333	84	80	80	75.9	80	333	80	80	70.9	80	79	323	78.6	80	86	335
		284/275A00	75.0	90.2	111	321	333	118	100	100	106.0	106.0	118	333	100	110	101.0	110	114	108.7	125	121	335
MED	460-3-60	NONE	-	-	56	319	331	63	70	60	59.5	63	331	70	331	55.5	70	58	321	61.7	80	66	333
		282/273A00	25.0	30.1	56	319	331	63	70	60	59.5	63	331	70	331	55.5	70	58	321	61.7	80	66	333
		283/274A00	50.0	60.1	79	319	331	86	80	80	78.6	80	331	80	80	73.6	80	82	321	81.4	90	89	333
		284/275A00	75.0	90.2	114	319	331	121	100	100	108.7	108.7	121	331	100	110	103.7	125	116	111.5	125	123	333
HIGH	460-3-60	NONE	-	-	62	359	371	70	80	70	65.2	70	371	80	371	61.2	80	65	361	67.4	80	72	373
		282/273A00	25.0	30.1	62	359	371	70	80	70	65.2	70	371	80	371	61.2	80	65	361	67.4	80	72	373
		283/274A00	50.0	60.1	86	359	371	93	80	80	85.7	80	371	80	80	80.7	80	88	361	88.5	100	95	373
		284/275A00	75.0	90.2	120	359	371	127	100	100	115.8	115.8	127	371	100	110	110.8	125	123	118.6	125	130	373
STD	575-3-60	NONE	-	-	43	256	264	49	60	49	42.8	49	264	60	264	42.8	50	45	258	47.6	60	50	266
		285/276A00	24.8	23.9	43	256	264	49	60	49	42.8	49	264	60	264	42.8	50	45	258	47.6	60	50	266
		286/277A00	49.6	47.7	62	256	264	68	60	60	73.4	60	264	60	60	69.5	70	64	258	75.5	80	69	266
		287/278A00	74.4	71.6	89	256	264	95	60	60	85.4	60	264	60	60	81.5	90	91	258	87.5	90	97	266
MED	575-3-60	NONE	-	-	45	254	262	50	60	49	47.3	50	262	60	262	44.2	50	47	256	49.0	60	52	264
		285/276A00	24.8	23.9	45	254	262	50	60	49	47.3	49	262	60	262	44.2	50	47	256	49.0	60	52	264
		286/277A00	49.6	47.7	64	254	262	69	60	60	75.1	60	262	60	60	71.3	80	66	256	77.3	80	71	264
		287/278A00	74.4	71.6	91	254	262	97	60	60	87.1	60	262	60	60	83.2	90	93	256	89.2	90	99	264
HIGH	575-3-60	NONE	-	-	47	281	289	52	60	52	49.2	52	289	60	289	46.1	60	49	283	50.9	60	54	291
		285/276A00	24.8	23.9	47	281	289	52	60	52	49.2	52	289	60	289	46.1	60	49	283	50.9	60	54	291
		286/277A00	49.6	47.7	66	281	289	71	60	60	77.5	60	289	60	60	73.6	80	68	283	79.6	80	73	291
		287/278A00	74.4	71.6	93	281	289	99	60	60	89.5	60	289	60	60	85.6	90	95	283	91.6	100	101	291

See: "Legend and Notes for Tables 1 - 8" on page 14.

Legend and Notes for Tables 1 - 8

LEGEND:

BRKR	-	Circuit breaker
C.O.	-	Convenience outlet
DISC	-	Disconnect
FLA	-	Full load amps
IFM	-	Indoor fan motor
LRA	-	Locked rotor amps
MCA	-	Minimum circuit amps
P.E.	-	Power exhaust
pwrd fr/ unit	-	Powered from unit
PWRD C.O.	-	Powered convenience outlet
UNPWR C.O.	-	Unpowered convenience 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.
- For 208/230 v units, where one value is shown it is the same for either 208 or 230 volts.
- 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.

