

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 RGH/RAH 240/242 & 300/303 units manufactured on or after April 18, 2016.

To confirm the date of manufacture of the unit, locate the unit nameplate and check the second thru fifth digits of the Serial Number. If the number listed in the 2nd thru 5th digits of the Serial Number is 1617 or higher KEEP THIS DOCUMENT and use it along with the furnished Installation Instructions. 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:	X	1	6	1	7	1	2	3	4	5


Manufacturing Location			Sequence Number
Year of Manufacture ("16" = 2016)	Week of Manufacture (fiscal calendar)		

C160051

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 RGH/RAH 240/243 & 300/303 units manufactured on or after April 18, 2016. Check the second thru fifth digits of the Serial Number. If the number listed in the 2nd thru 5th digits of the Serial Number is 1617 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 – RGH240/243 & 300/303 Units 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	FLA	LRA	MCA	MAX FUSE or HACR BRKR	FLA	LRA	MCA	MAX FUSE or HACR BRKR	FLA	LRA	MCA	MAX FUSE or HACR BRKR	FLA	LRA	MCA	MAX FUSE or HACR BRKR	FLA	LRA				
RGH 240/243	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	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	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	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	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	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	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	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	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	43.8	50	47	267					
RGH 300/303 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	133.2/132.3	175/175	143	612				
		MED-High Efficiency	120.1	150	124	587	131.9	175	138	607	124.9	150	130	592	136.7	175	143	612	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	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	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	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	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	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	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	50.9	60	54	291					

1 – STD static is not available on RGH303.

See: "Legend and Notes for Tables 1 – 4" on page 8.

Table 2 – RGH240/243 & 300/303 Units 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/ PWRD C.O.				NO PE.				w/ PWRD C.O.			
			MCA	MAX FUSE or HACR BRKR	FLA	LRA	MCA	MAX FUSE or HACR BRKR	FLA	LRA	MCA	MAX FUSE or HACR BRKR	FLA	LRA	MCA	MAX FUSE or HACR BRKR	FLA	LRA	MCA	MAX FUSE or HACR BRKR	FLA	LRA	MCA	MAX FUSE or HACR BRKR	FLA	LRA
RGH 240/243	208/230-3-60	STD	83.1/82.2	100/100	87/86	578	574	105	598	87.9/87.0	101/100	105	594	93/92	97	579	583	99.7/98.8	125/125	106/105	111	599	603	603		
		MED	86.6	100	91	574	574	105	594	91.4	101/100	105	594	97	97	579	583	103.2	125	111	111	599	599	599		
	460-3-60	STD	98.0	125	105	653	653	118	673	102.8	118	118	673	48	48	658	658	114.6	125	124	124	678	678	678		
		MED	43.1	50	45	312	312	52	324	45.3	52	52	324	50	50	314	314	51.5	60	55	55	326	326	326		
	RGH 300/303 1	575-3-60	STD	45.3	50	48	310	310	55	322	47.5	55	55	322	50	50	312	312	53.7	60	58	58	324	324	324	
			MED	51.0	60	54	350	350	62	362	53.2	62	62	362	60	60	352	352	59.4	70	64	64	364	364	364	
STD		34.0	45	36	232	232	41	240	35.7	41	41	240	45	45	234	234	40.5	50	43	43	242	242	242			
MED		35.4	45	37	230	230	43	238	37.1	43	43	238	45	45	232	232	41.9	50	45	45	240	240	240			
STD		37.3	45	40	257	257	45	265	39.0	45	45	265	50	50	259	259	43.8	50	47	47	267	267	267			
MED		116.6/115.7	150/150	120/119	591	591	124	587	124.9	124	124	587	150	150	126/125	130	596	133.2/132.3	175/175	139/138	143	612	612	612		
RGH 300/303 1	208/230-3-60	STD	120.1	150	137	666	666	151	686	124.9	138	151	686	143	143	671	671	136.7	175	157	157	691	691	691		
		MED	131.5	175	137	666	666	151	686	136.3	151	151	686	175	175	671	671	148.1	175	143	143	691	691	691		
	460-3-60	STD	51.1	60	53	321	321	60	333	53.3	60	60	333	70	70	323	323	59.5	70	66	66	333	333	333		
		MED	53.3	60	56	319	319	63	331	55.5	63	63	331	70	70	321	321	61.7	80	66	66	333	333	333		
	575-3-60	STD	41.1	50	43	256	256	49	264	42.8	49	49	264	50	50	258	258	47.6	60	50	50	266	266	266		
		MED	42.5	50	45	254	254	50	262	44.2	50	50	262	50	50	256	256	49.0	60	52	52	264	264	264		
HIGH	44.4	50	47	281	281	52	289	46.1	52	52	289	60	60	49	49	283	50.9	60	54	54	291	291	291			

1 – STD static is not available on RGH303.

See: "Legend and Notes for Tables 1 – 4" on page 8.

Table 3 – RAH240/243 & 300/303 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	MCA	NO PE.			w/ P.E. (pwrd fr/unit)			NO PE.			w/ P.E. (pwrd fr/unit)			NO PE.			w/ P.E. (pwrd fr/unit)						
						MAX FUSE or HACR BRKR	DISC. SIZE FLA	DISC. SIZE LRA	MCA	MAX FUSE or HACR BRKR	DISC. SIZE FLA	DISC. SIZE LRA	MCA	MAX FUSE or HACR BRKR	DISC. SIZE FLA	DISC. SIZE LRA	MCA	MAX FUSE or HACR BRKR	DISC. SIZE FLA	DISC. SIZE LRA	MCA	MAX FUSE or HACR BRKR	DISC. SIZE FLA	DISC. SIZE LRA			
STD	208/230-3-60	NONE	—	—	86.6	91	574	594	105	594	105	594	91.4	100	97	579	103.2	125	111	111	111	111	111	111	111	111	599
		279/270A00	18.8/25.0	52.1/60.1	86.6/96.5	100/100	91/91	574/574	594/594	105/105	594/594	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	111/111	111/111	599/599	
		280/271A00	37.6/50.0	104.2/120.3	151.6/141.7	175/175	139/158	574/574	594/594	153/172	594/594	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	159/177	159/177	599/599	
		281/272A00	56.3/75.0	156.4/180.4	177.8/201.8	200/225	200/227	574/574	594/594	213/241	594/594	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	219/246	219/246	599/599	
MED-High Efficiency	208/230-3-60	NONE	—	—	86.6	91	574	594	105	594	105	594	91.4	100	97	579	103.2	125	111	111	111	111	111	111	111	111	599
		279/270A00	18.8/25.0	52.1/60.1	86.6/96.5	100/100	91/91	574/574	594/594	105/105	594/594	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	111/111	111/111	599/599	
		280/271A00	37.6/50.0	104.2/120.3	151.6/141.7	175/175	139/158	574/574	594/594	153/172	594/594	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	159/177	159/177	599/599	
		281/272A00	56.3/75.0	156.4/180.4	177.8/201.8	200/225	200/227	574/574	594/594	213/241	594/594	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	219/246	219/246	599/599	
HIGH-High Efficiency	208/230-3-60	NONE	—	—	98.0	105	653	673	118	673	118	673	102.8	125	110	658	114.6	125	124	124	124	124	124	124	124	124	678
		279/270A00	18.8/25.0	52.1/60.1	100.8/110.8	125/125	105/105	653/653	673/673	118/118	673/673	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	124/124	124/124	124/124	678/678	
		280/271A00	37.6/50.0	104.2/120.3	165.9/155.9	175/175	153/171	653/653	673/673	166/185	673/673	166/185	673/673	171.9/161.9	175/175	158/177	658/658	186.6/176.6	200/200	172/190	172/190	172/190	172/190	172/190	172/190	678/678	
		281/272A00	56.3/75.0	156.4/180.4	192.0/216.0	200/250	213/240	653/653	673/673	226/254	673/673	226/254	673/673	198.0/222.0	225/250	218/246	658/658	212.8/236.8	225/250	232/259	232/259	232/259	232/259	232/259	232/259	678/678	
STD	460-3-60	NONE	—	—	45.3	48	310	322	55	322	55	322	47.5	60	50	312	53.7	60	58	58	58	58	58	58	58	324	
		282/273A00	25.0	30.1	48.4	50	48	310	322	55	310	55	322	51.1	60	50	312	58.9	60	58	58	58	58	58	324		
		283/274A00	50.0	60.1	70.9	80	79	310	322	86	310	86	322	73.6	80	82	312	81.4	90	89	89	89	89	89	324		
		284/275A00	75.0	90.2	101.0	110	114	310	322	121	310	121	322	103.7	125	116	312	111.5	125	123	123	123	123	123	324		
MED-High Efficiency	460-3-60	NONE	—	—	45.3	48	310	322	55	310	55	322	47.5	60	50	312	53.7	60	58	58	58	58	58	58	324		
		282/273A00	25.0	30.1	48.4	50	48	310	322	55	310	55	322	51.1	60	50	312	58.9	60	58	58	58	58	58	324		
		283/274A00	50.0	60.1	70.9	80	79	310	322	86	310	86	322	73.6	80	82	312	81.4	90	89	89	89	89	89	324		
		284/275A00	75.0	90.2	101.0	110	114	310	322	121	310	121	322	103.7	125	116	312	111.5	125	123	123	123	123	123	324		
HIGH-High Efficiency	460-3-60	NONE	—	—	51.0	54	350	362	62	362	62	362	53.2	70	57	352	59.4	70	64	64	64	64	64	64	364		
		282/273A00	25.0	30.1	55.5	60	54	350	362	62	350	62	362	58.3	70	57	352	66.0	70	64	64	64	64	64	364		
		283/274A00	50.0	60.1	78.0	80	86	350	362	93	350	93	362	80.7	90	88	352	88.5	100	95	95	95	95	95	364		
		284/275A00	75.0	90.2	108.1	125	120	350	362	127	350	127	362	110.8	125	123	352	118.6	125	130	130	130	130	130	364		
STD	575-3-60	NONE	—	—	33.4	40	232	240	41	240	41	240	35.1	45	37	234	39.9	50	43	43	43	43	43	43	242		
		285/276A00	24.8	23.9	36.9	40	35	232	240	41	232	41	240	39.0	45	37	234	45.0	50	43	43	43	43	43	242		
		286/277A00	49.6	47.7	66.6	70	61	232	240	67	232	67	240	68.8	70	63	234	74.8	80	69	69	69	69	69	242		
		287/278A00	74.4	71.6	78.6	90	89	232	240	94	232	94	240	80.7	90	91	234	86.7	90	96	96	96	96	96	242		
MED-High Efficiency	575-3-60	NONE	—	—	35.4	45	230	238	43	238	43	238	37.1	45	39	232	41.9	50	45	45	45	45	45	45	240		
		285/276A00	24.8	23.9	39.4	45	37	230	238	43	230	43	238	41.5	45	39	232	47.5	50	45	45	45	45	45	240		
		286/277A00	49.6	47.7	69.1	70	64	230	238	69	230	69	238	71.3	80	66	232	77.3	80	71	71	71	71	71	240		
		287/278A00	74.4	71.6	81.1	90	91	230	238	97	230	97	238	83.2	90	93	232	89.2	90	99	99	99	99	99	240		
HIGH-High Efficiency	575-3-60	NONE	—	—	37.3	45	257	265	45	265	45	265	39.0	50	42	259	43.8	50	47	47	47	47	47	47	267		
		285/276A00	24.8	23.9	41.8	45	40	257	265	45	257	45	265	43.9	50	42	259	49.9	50	47	47	47	47	47	267		
		286/277A00	49.6	47.7	71.5	80	66	257	265	71	257	71	265	73.6	80	68	259	79.6	80	73	73	73	73	73	267		
		287/278A00	74.4	71.6	83.5	90	93	257	265	99	257	99	265	85.6	90	95	259	91.6	100	101	101	101	101	101	267		

See: "Legend and Notes for Tables 1 - 4" on page 8.

Table 3 - RAH240/243 & 300/303 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	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	
208/230-3-60	STD	NONE	-	-	-	116.6/115.7	150/150	120/119	591	591	134/133	134/133	611	121.4/120.5	150/150	126/125	596	133.2/132.3	175/175	139/138	616	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	591/591	134/133	134/133	611/611	121.4/120.5	150/150	126/125	596/596	133.2/132.3	175/175	139/138	616/616	133.2/132.3	175/175	139/138	616/616
		280/271A00	37.6/50.0	104.2/120.3	104.2/120.3	147.3/136.2	150/150	135/153	591/591	591/591	149/167	149/167	611/611	153.3/142.2	175/175	141/158	596/596	166.0/156.9	175/175	155/172	616/616	166.0/156.9	175/175	155/172	616/616
		281/272A00	56.3/75.0	156.4/180.4	156.4/180.4	173.4/196.3	200/225	196/222	591/591	591/591	209/236	209/236	611/611	178.4/202.3	200/225	201/228	596/596	194.2/217.0	200/250	215/241	616/616	194.2/217.0	200/250	215/241	616/616
208/230-3-60	MED-High Efficiency	NONE	-	-	-	120.1	150	124	587	587	138	138	607	124.9/124.9	150	130	592	136.7	175	143	612	136.7	175	143	612
		279/270A00	18.8/25.0	52.1/60.1	52.1/60.1	120.1/120.1	150/150	124/124	587/587	587/587	138/138	138/138	607/607	124.9/124.9	150/150	130/130	592/592	136.7/136.7	175/175	143/143	612/612	136.7/136.7	175/175	143/143	612/612
		280/271A00	37.6/50.0	104.2/120.3	104.2/120.3	151.6/141.7	175/175	139/158	587/587	587/587	153/172	153/172	607/607	157.6/147.7	175/175	145/164	592/592	172.4/162.4	175/175	159/177	612/612	172.4/162.4	175/175	159/177	612/612
		281/272A00	56.3/75.0	156.4/180.4	156.4/180.4	177.8/201.8	200/225	200/227	587/587	587/587	213/241	213/241	607/607	183.8/207.8	200/225	205/233	592/592	198.5/222.5	200/250	219/246	612/612	198.5/222.5	200/250	219/246	612/612
460-3-60	STD	NONE	-	-	-	51.1	60	53	321	321	60	60	333	53.3	60	56	323	59.5	70	63	335	59.5	70	63	335
		282/273A00	25.0	30.1	30.1	51.1	60	53	321	321	60	60	333	53.3	60	56	323	59.5	70	63	335	59.5	70	63	335
		283/274A00	50.0	60.1	60.1	68.1	80	76	321	321	84	84	333	70.9	80	79	323	78.6	80	86	335	78.6	80	86	335
		284/275A00	75.0	90.2	90.2	98.2	100	111	321	321	118	118	333	101.0	110	114	323	108.7	125	121	335	108.7	125	121	335
460-3-60	MED-High Efficiency	NONE	-	-	-	59.0	70	62	359	359	70	70	371	61.2	70	65	361	67.4	80	72	373	67.4	80	72	373
		282/273A00	25.0	30.1	30.1	59.0	70	62	359	359	70	70	371	61.2	70	65	361	67.4	80	72	373	67.4	80	72	373
		283/274A00	50.0	60.1	60.1	78.0	80	86	359	359	93	93	371	80.7	80	88	361	88.5	100	95	373	88.5	100	95	373
		284/275A00	75.0	90.2	90.2	108.1	125	120	359	359	127	127	371	110.8	125	123	361	118.6	125	130	373	118.6	125	130	373
575-3-60	STD	NONE	-	-	-	40.5	50	42	256	256	48	48	264	42.2	50	44	258	47.0	60	50	266	47.0	60	50	266
		285/276A00	24.8	23.9	23.9	40.5	50	42	256	256	48	48	264	42.2	50	44	258	47.0	60	50	266	47.0	60	50	266
		286/277A00	49.6	47.7	47.7	66.6	70	61	256	256	67	67	264	68.8	70	63	258	74.8	80	69	266	74.8	80	69	266
		287/278A00	74.4	71.6	71.6	78.6	90	89	256	256	94	94	264	80.7	90	91	258	86.7	90	96	266	86.7	90	96	266
575-3-60	MED-High Efficiency	NONE	-	-	-	42.5	50	45	254	254	50	50	262	44.2	50	47	256	49.0	60	52	264	49.0	60	52	264
		285/276A00	24.8	23.9	23.9	42.5	50	45	254	254	50	50	262	44.2	50	47	256	49.0	60	52	264	49.0	60	52	264
		286/277A00	49.6	47.7	47.7	68.1	70	64	254	254	69	69	262	71.3	80	66	256	77.3	80	71	264	77.3	80	71	264
		287/278A00	74.4	71.6	71.6	81.1	90	91	254	254	97	97	262	83.2	90	93	256	89.2	90	99	264	89.2	90	99	264
575-3-60	HIGH-High Efficiency	NONE	-	-	-	44.4	50	47	281	281	52	52	289	46.1	60	49	283	50.9	60	54	291	50.9	60	54	291
		285/276A00	24.8	23.9	23.9	44.4	50	47	281	281	52	52	289	46.1	60	49	283	50.9	60	54	291	50.9	60	54	291
		286/277A00	49.6	47.7	47.7	71.5	80	66	281	281	71	71	289	73.6	80	68	283	79.6	80	73	291	79.6	80	73	291
		287/278A00	74.4	71.6	71.6	83.5	90	93	281	281	99	99	289	85.6	90	95	283	91.6	100	101	291	91.6	100	101	291

See: "Legend and Notes for Tables 1 - 4" on page 8.

Table 4 – RAH240/243 & 300/303 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	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				
460-3-60 RAH240/243	STD	NONE	18.8/25.0	52.1/60.1	-	83.1/82.2	100/100	87/86	578	101/100	101/100	598	87.9/87.0	100/100	93/92	583	98.7/98.8	125/125	106/105	603	
						83.1/91.0	100/100	87/86	578/578	101/110	101/110	598/598	88.1/97.0	100/100	93/92	583/583	102.9/111.8	125/125	106/105	603/603	
						147.3/136.2	150/150	135/153	578/578	110/110	110/110	598/598	153.3/142.2	175/175	141/158	583/583	168.0/156.9	175/175	155/172	603/603	
						173.4/180.4	200/225	196/222	578/578	200/225	200/225	598/598	178.4/202.3	200/225	201/228	583/583	194.2/217.0	200/250	215/241	603/603	
460-3-60 RAH240/243	MED	NONE	18.8/25.0	52.1/60.1	-	86.6	100	91	574	105	105	594	91.4	100	97	579	103.2	125	111	599	
						86.6/96.5	100/100	91/91	574/574	125/125	125/125	594/594	92.5/102.5	100/110	97/97	579/579	107.3/117.3	125/125	111/111	599/599	
						151.6/141.7	175/175	139/158	574/574	175/175	175/175	594/594	157.6/147.7	175/175	145/164	579/579	172.4/162.4	175/175	159/177	599/599	
						177.8/201.8	200/225	200/227	574/574	200/250	200/250	594/594	183.8/207.8	200/225	205/233	579/579	198.5/222.5	200/250	219/246	599/599	
460-3-60 RAH240/243	HIGH	NONE	18.8/25.0	52.1/60.1	-	98.0	125	105	653	118	118	673	102.8	125	110	658	114.6	125	124	678	
						100.8/110.8	125/125	105/105	653/653	125/150	125/150	673/673	106.8/116.8	125/125	110/110	658/658	121.5/131.5	125/150	124/124	678/678	
						165.9/155.9	175/175	153/171	653/653	180.8/170.7	200/175	166/185	673/673	171.9/161.9	175/175	158/177	658/658	186.6/176.7	200/200	172/190	678/678
						192.0/216.0	200/250	213/240	653/653	206.8/230.8	225/250	226/254	673/673	198.0/222.0	225/250	218/246	658/658	212.8/236.8	225/250	232/259	678/678
460-3-60 RAH240/243	STD	NONE	25.0	30.1	-	43.1	50	45	312	52	52	324	45.3	50	48	314	51.5	60	55	326	
						45.6	50	45	312	53.4	60	52	324	48.4	50	48	314	56.1	60	55	326
						68.1	80	76	312	75.9	80	84	324	70.9	80	79	314	78.6	80	86	326
						98.2	100	111	312	106.0	125	118	324	101.0	110	114	314	108.7	125	121	326
460-3-60 RAH240/243	MED	NONE	25.0	30.1	-	45.3	50	48	310	55	55	322	47.5	60	50	312	53.7	60	58	324	
						48.4	50	48	310	56.1	60	55	322	51.1	60	50	312	56.9	60	58	324
						70.9	80	79	310	78.6	80	86	322	73.6	80	82	312	81.4	90	89	324
						101.0	110	114	310	108.7	125	121	322	103.7	125	116	312	111.5	125	123	324
460-3-60 RAH240/243	HIGH	NONE	25.0	30.1	-	51.0	60	54	350	62	62	362	53.2	60	57	352	59.4	70	64	364	
						55.5	60	54	350	63.3	70	62	362	58.3	60	57	362	66.0	70	64	364
						78.0	90	86	350	85.7	90	93	362	80.7	90	88	352	88.5	100	95	364
						108.1	125	120	350	115.8	125	127	362	110.8	125	123	352	118.6	125	130	364
460-3-60 RAH240/243	STD	NONE	24.8	23.9	-	34.0	45	36	232	41	41	240	35.7	45	38	234	40.5	50	43	242	
						37.6	45	36	232	43.6	50	41	240	39.8	45	38	234	45.8	50	43	242
						67.4	70	62	232	73.4	80	68	240	69.5	70	64	234	75.5	80	69	242
						79.4	90	89	232	85.4	90	95	240	81.5	90	91	234	87.5	90	97	242
460-3-60 RAH240/243	MED	NONE	24.8	23.9	-	35.4	45	37	230	43	43	238	37.1	45	39	232	41.9	50	45	240	
						39.4	45	37	230	45.4	50	43	238	41.5	45	39	232	47.5	50	45	240
						69.1	70	64	230	75.1	80	69	238	71.3	80	66	232	77.3	80	71	240
						81.1	90	91	230	87.1	90	97	238	83.2	90	93	232	89.2	90	99	240
460-3-60 RAH240/243	HIGH	NONE	24.8	23.9	-	37.3	45	40	257	45	45	265	39.0	50	42	259	43.8	50	47	267	
						41.8	45	40	257	47.8	50	45	265	43.9	50	42	259	49.9	50	47	267
						71.5	80	66	257	77.5	80	71	265	73.6	80	68	259	79.6	80	73	267
						83.5	90	93	257	89.5	100	99	265	85.6	90	95	259	91.6	100	101	267

See: "Legend and Notes for Tables 1 - 4" on page 8.

Table 4 - RAH240/243 & 300/303 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.									
			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					
460-3-60 RAH300/303	208/230-3-60	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	166.0/156.9	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				
460-3-60 RAH300/303	208/230-3-60	MED	NONE	-	-	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				
460-3-60 RAH300/303	208/230-3-60	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	180.6/170.7	200/175	166/185	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	666/666	198.0/222.0	225/250	218/246	671/671	212.8/236.8	225/250	232/259	691/691				
460-3-60 RAH300/303	208/230-3-60	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				
460-3-60 RAH300/303	208/230-3-60	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				
460-3-60 RAH300/303	208/230-3-60	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				
575-3-60	208/230-3-60	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				
575-3-60	208/230-3-60	MED	NONE	-	-	42.5	50	45	254	47.3	60	50	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				
575-3-60	208/230-3-60	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	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				

See: "Legend and Notes for Tables 1 - 4" on page 8.

Legend and Notes for Tables 1 - 4

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



$$AB = 224 \text{ v}$$

$$BC = 231 \text{ v}$$

$$AC = 226 \text{ v}$$

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

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.