

**48/50HT 6 Nominal Tons
Single Package Rooftop for AutoZone®
Gas Heating/Electric Cooling Unit
& Cooling Only/Electric Heat Unit
with Puron® (R-410A) Refrigerant
Size: 07**



Electrical Data Supplement

FOR MODELS PRODUCED ON OR AFTER MAY 18, 2015 ONLY!

NOTE: Read the entire instruction manual before starting the installation

This supplement only applies to 48/50HT size 07 units manufactured on or after May 18, 2015. To confirm the date of manufacture of the unit, locate the unit nameplate and check the first four digits of the Serial Number which is located directly below the unit's Model Number at the top of the nameplate. If the number listed in the first 4 digits of the Serial Number is 2115 or higher KEEP THIS DOCUMENT and use it along with the furnished Installation Instructions.

SERIAL NUMBER NOMENCLATURE


Position:	1	2	3	4	5	6	7	8	9	10
Example:	2	1	1	5	X	1	2	3	4	5

Week of manufacture (fiscal calendar)	Sequence number
Year of manufacture ("15" = 2015)	Manufacturing location

SAFETY CONSIDERATIONS

Improper installation, adjustment, alteration, service, maintenance, or use can cause explosion, fire, electrical shock or other conditions which may cause personal injury or property damage. Consult a qualified installer, service agency, or your distributor or branch for information or assistance. The qualified installer or agency must use factory-authorized kits or accessories when modifying this product. Refer to the individual instructions packaged with the kits or accessories when installing.

Follow all safety codes. Wear safety glasses and work gloves. Use quenching cloths for brazing operations and have a fire extinguisher available. Read these instructions thoroughly and follow all warnings or cautions attached to the unit. Consult local building codes and appropriate national electrical codes (in USA, ANSI/NFPA70, National Electrical Code (NEC); in Canada, CSA C22.1) for special requirements.

It is important to recognize safety information. This is the safety-alert symbol . When you see this symbol on the unit and in instructions or manuals, be alert to the potential for personal injury.

Understand the signal words DANGER, WARNING, CAUTION, and NOTE. These words are used with the safety-alert symbol. DANGER identifies the most serious hazards which **will** result in severe personal injury or death. WARNING signifies hazards which **could** result in

personal injury or death. CAUTION is used to identify unsafe practices, which **may** result in minor personal injury or product and property damage. NOTE is used to highlight suggestions which **will** result in enhanced installation, reliability, or operation.

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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 48/50HT size 07 units manufactured on or after May 18, 2015. Check the first 4 digits of the unit's Serial Number (located on the unit's nameplate) if the number listed is 2115 or higher keep this document.

WARNING

ELECTRICAL SHOCK HAZARD

Failure to follow this warning could cause personal injury or death.

Before performing service or maintenance operations on unit, always turn off main power switch to unit and install lockout tag. Unit may have more than one power switch.

Table 1 – 48HT 07 Unit Wire/Fuse or HACR Breaker Sizing Data

UNIT	NOM. V-Ph-Hz	IFM TYPE	NO C.O. or UNPWR C.O.						w/ PWRD C.O.							
			NO PE.			w/ PE. (pwrdr fr/ unit)			NO PE.			w/ PE. (pwrdr fr/ unit)				
			MCA	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		
48HT*A07	208/230-3-60	STD	32	50	30	170	34	50	32	172	36	50	38	50	38	177
		MED	35/35	50/50	34/34	212	37/37	50/50	36/36	214	39/39	50/50	42/42	60/60	42/42	219
		HIGH	37	50	36	226	39	50	39	228	42	60	44	60	44	233
	460-3-60	STD	14	20	13	83	15	20	14	84	16	20	17	25	17	86
		MED	16	20	15	104	17	20	16	105	18	25	19	25	19	107
		HIGH	17	20	16	111	18	25	18	112	19	25	20	25	20	114
575-3-60	STD	11	15	11	68	13	15	13	70	13	15	13	20	15	72	
	MED	12	15	12	79	14	20	14	81	14	15	13	20	16	83	
	HIGH	12	15	12	79	14	20	14	81	14	15	13	20	16	83	

See: "Legend and Notes for Tables 1 and 2" on page 4.

Table 2 – 50HT 07 Unit Wire/Fuse or HACR Breaker Sizing Data

UNIT	NO M, V-PH-HZ	ELEC. HTR			NO C.O. or UNPWR C.O.						w/ PWRD C.O.						
		IFIM-TYPE	Nom (kW)	FLA	NO PE.			w/ P.E. (pwrd fr/unit)			NO PE.			w/ P.E. (pwrd fr/unit)			
					MCA	MAX FUSE or HACR BRKR	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	
50HT-A07	STD	NONE	-	-	30	170	34	50	32	172	36	175	38	50	38	177	
		102A	4.9/6.5	13.6/15.6	30/30	170/170	34/34	50/50	32/32	172/172	36/36	175/175	38/38	50/50	38/38	177/177	
		104B	7.9/10.5	21.9/25.3	31/35	170/170	37/41	50/50	33/37	172/172	40/45	175/175	43/47	50/50	39/43	177/177	
		105A	12.0/16.0	33.4/38.5	44/50	170/170	51/57	60/60	47/52	172/172	55/61	175/175	57/63	60/70	52/58	177/177	
		104B+104B	15.8/21.0	43.8/50.5	56/64	170/170	64/72	70/80	59/66	172/172	68/76	175/175	70/78	70/80	64/72	177/177	
		104B+105A	19.9/26.5	55.2/63.8	69/79	170/170	78/89	80/90	72/82	172/172	82/93	175/175	84/95	90/100	77/87	177/177	
		NONE	-	-	34/34	212	37/37	50/50	36/36	214	40/40	217	42/41	60/60	60/60	42/42	219
		102A	4.9/6.5	13.6/15.6	34/34	212/212	37/37	50/50	36/36	214/214	40/40	217/217	42/41	60/60	60/60	42/42	219/219
		104B	7.9/10.5	21.9/25.3	35/39	212/212	41/45	50/50	37/41	214/214	44/48	217/217	47/51	60/60	60/60	43/46	219/219
		105A	12.0/16.0	33.4/38.5	48/54	212/212	55/61	60/70	50/56	214/214	59/65	217/217	61/67	70/70	70/70	56/62	219/219
50HT-A07	HIGH	104B+104B	15.8/21.0	43.8/50.5	60/68	212/212	68/76	70/80	62/70	214/214	72/80	217/217	74/82	80/90	80/90	68/75	219/219
		104B+105A	19.9/26.5	55.2/63.8	73/83	212/212	82/93	90/100	75/85	214/214	86/97	217/217	88/99	90/100	81/91	219/219	
		NONE	-	-	36	226	39	50	39	228	42	231	44	60	44	233	
		102A	4.9/6.5	13.6/15.6	36/36	226/226	39/39	50/50	39/39	228/228	42/42	231/231	44/44	60/60	60/60	44/44	233/233
		104B	7.9/10.5	21.9/25.3	37/41	226/226	43/48	50/50	40/43	228/228	47/51	231/231	49/54	60/60	60/60	45/49	233/233
		105A	12.0/16.0	33.4/38.5	51/56	226/226	58/64	60/70	53/59	228/228	61/68	231/231	64/70	70/70	59/64	233/233	
		104B+104B	15.8/21.0	43.8/50.5	63/70	226/226	71/79	80/80	65/72	228/228	74/83	231/231	77/85	80/90	70/78	233/233	
		104B+105A	19.9/26.5	55.2/63.8	76/86	226/226	85/96	90/100	78/88	228/228	89/99	231/231	91/102	100/110	83/93	233/233	
		NONE	-	-	13	83	15	20	14	84	16	85	17	25	17	86	
		106A	6.0	7.2	13	83	15	20	14	84	16	85	17	25	17	86	
460-3-60	STD	108A	11.5	13.8	21	104	24	25	105	26	106	27	30	24	107		
		109A	14.0	16.8	25	104	28	30	25	105	29	106	31	35	28		
		108A+108A	23.0	27.7	37	104	42	45	38	105	43	106	44	45	40		
		108A+109A	25.5	30.7	40	104	45	45	41	105	47	106	48	50	44		
		NONE	-	-	15	104	17	20	16	105	18	106	19	25	19		
		106A	6.0	7.2	15	104	17	20	16	105	18	106	19	25	19		
		108A	11.5	13.8	21	104	24	25	22	105	26	106	27	30	24		
		109A	14.0	16.8	24	104	28	30	25	105	29	106	31	35	28		
		108A+108A	23.0	27.7	37	104	42	45	38	105	43	106	44	45	40		
		108A+109A	25.5	30.7	44	104	45	45	41	105	47	106	48	50	44		
575-3-60	STD	NONE	-	-	16	111	18	25	112	19	113	20	25	20	114		
		106A	6.0	7.2	16	111	18	25	112	19	113	20	25	20	114		
		108A	11.5	13.8	22	111	26	30	23	112	27	113	28	30	26		
		109A	14.0	16.8	25	111	29	30	27	112	31	113	32	35	29		
		108A+108A	23.0	27.7	38	111	43	45	39	112	44	113	46	50	42		
		108A+109A	25.5	30.7	41	111	47	50	43	112	48	113	49	50	45		
		NONE	-	-	11	68	13	15	13	70	13	70	15	20	15		
		106A	6.0	7.2	12	79	14	20	14	81	14	81	16	20	16		
		108A	11.5	13.8	12	79	14	20	14	81	14	81	16	20	16		
		109A	14.0	16.8	12	79	14	20	14	81	14	81	16	20	16		

See: "Legend and Notes for Tables 1 and 2" on page 4.

Legend and Notes for Tables 1 and 2

LEGEND:

BRKR	-	Circuit breaker
CO	-	Convenience outlet
DISC	-	Disconnect
FLA	-	Full load amps
IFM	-	Indoor fan motor
LRA	-	Locked rotor amps
MCA	-	Minimum circuit amps
MOCP	-	MAX FUSE or HACR Breaker
PE	-	Power exhaust
PWRD CO	-	Powered convenient outlet
UNPWR CO	-	Unpowered convenient outlet

NOTES:

- In compliance with NEC requirements for multimotor and combination load equipment (refer to NEC Articles 430 and 440), the overcurrent protective device for the unit shall be fuse or HACR breaker. Canadian units may be fuse or circuit breaker.

2. Unbalanced 3-Phase Supply Voltage

Never operate a motor where a phase imbalance in supply voltage is greater than 2%. Use the following formula to determine the percentage of voltage imbalance.

$$\% \text{ Voltage Imbalance} = 100 \times \frac{\text{max voltage deviation from average voltage}}{\text{average voltage}}$$

Example: Supply voltage is 230-3-60



AB = 224 v
BC = 231 v
AC = 226 v

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

Determine maximum deviation from average voltage.

$$(AB) 227 - 224 = 3 \text{ v}$$

$$(BC) 231 - 227 = 4 \text{ v}$$

$$(AC) 227 - 226 = 1 \text{ v}$$

Maximum deviation is 4 v.

Determine percent of voltage imbalance.

$$\begin{aligned} \% \text{ Voltage Imbalance} &= 100 \times \frac{4}{227} \\ &= 1.76\% \end{aligned}$$

This amount of phase imbalance is satisfactory as it is below the maximum allowable 2%.

IMPORTANT: If the supply voltage phase imbalance is more than 2%, contact your local electric utility company immediately.