

48HT
Single Package Rooftop
Gas Heating/Electric Cooling Unit
with Puron® (R-410A) Refrigerant
Size: 07



Electrical Data Supplement

ELECTRICAL DATA FOR UNITS PRODUCED ON OR AFTER 02/09/2015


NOTE: Read the entire instruction manual before starting the installation

IMPORTANT: The electrical data contained in this document is only for use with 48HT*A07 units produced on or after 02/09/2015. This supplement supersedes the Electrical Data found in the current Installation Instructions for these units. Retain this document and keep it with the unit's Installation Instructions.

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.

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 – Unit Wire/Fuse or HACR Breaker Sizing Data

UNIT	NOM.V–Ph–Hz	IFM TYPE	NO C.O. or UNPWR C.O.							
			NO P.E.				w/ P.E. (pwrd fr/ unit)			
			MCA	MAX FUSE or HACR BRKR	DISC. SIZE		MCA	MAX FUSE or HACR BRKR	DISC. SIZE	
					FLA	LRA			FLA	LRA
48HT*A07	208/230–3–60	STD	33/33	50/50	32/32	197	35/35	50/50	34/34	199
		MED	35/35	50/50	34/34	212	37/37	50/50	36/36	214
		HIGH	37	50	36	226	39	50	39	228
	460–3–60	STD	16	20	14	96	16	20	15	97
		MED	16	20	15	104	17	20	16	105
		HIGH	17	20	16	111	18	25	18	112

UNIT	NOM.V–Ph–Hz	IFM TYPE	w/PWRD C.O.							
			NO P.E.				w/ P.E. (pwrd fr/ unit)			
			MCA	MAX FUSE or HACR BRKR	DISC. SIZE		MCA	MAX FUSE or HACR BRKR	DISC. SIZE	
					FLA	LRA			FLA	LRA
48HT*A07	208/230–3–60	STD	38/38	50/50	38/37	202	40/40	50/50	40/40	204
		MED	40/40	50/50	39/39	217	42/41	60/60	42/42	219
		HIGH	42	60	42	231	44	60	44	233
	460–3–60	STD	17	20	17	98	18	25	18	99
		MED	18	25	18	106	19	25	19	107
		HIGH	19	25	19	113	20	25	20	114

Legend and Notes for Table 1

LEGEND:

- BRKR – Circuit breaker
- CO – Convenient outlet
- DISC – Disconnect
- FLA – Full load amps
- LRA – Locked rotor amps
- MCA – Minimum circuit amps
- 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

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

Determine maximum deviation from average voltage.

- (AB) 227 – 224 = 3 v
- (BC) 231 – 227 = 4 v
- (AC) 227 – 226 = 1 v

Maximum deviation is 4 v.

Determine percent of voltage imbalance.

$$\% \text{ Voltage Imbalance} = 100 \times \frac{4}{227} = 1.76\%$$

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.