

WX-900E

(REV. 11/23)

**Kentucky Housing Corporation
(Weatherization)****Electric Heat System Evaluation:**

Clients Name: _____ Job #: _____ Date: _____

AC / Heat Pumps

Unit Type	PK / SS	Year	Tons / BTU
A. AC SEER/SEER2	_____	_____	_____
B. HP HSPF/HSPF2 COP	_____	_____	_____
C. Window EER	_____	_____	_____

Heating Unit Location	Make & Model #	Unit Type	KW'S	Primary/Secondary
A. _____	_____	_____	_____	_____
B. _____	_____	_____	_____	_____
C. _____	_____	_____	_____	_____

PRE-EVALUATION

(Visual Inspection: Complete Unit)

POST INSPECTION

P/F	PASS OR FAIL	Comments	P/F 1st	P/F 2nd
	Coil Condition			
	Refrigerant Lines			
	Condensate Lines			
	Filter Condition / Size			
	Blower Motor Condition			
	Organic Debris in Ducts			
	Condensation on / in Ducts			
	Duct Sized Correctly			
	Supply Registers Open			
	Return Ducting Unrestricted			
	Wiring Conditions			
	Burned or Frayed Wires			
	Missing or Disconnected Wires			

- Did you verify the presence of electricity with Volt-Ohm-Meter. ____ Y ____ N.
(Safety: Make sure the furnace cabinet is not energized!)
- From the **MANUFACTURES DATA PLATE**, record the following: (*Electric Furnace or Indoor Split system*)
Indoor Supply Circuit Type: ____ Single ____ Dual.
VAC Rating: ____ Total AMP Draw ____ **Maximum** over current protection rating: ____.
Circuit 1: Wire Size L1____, L2____, G____. Equipment Breaker/Fuse: ____.
Circuit 2: Wire Size L1____, L2____, G____. Equipment Breaker/Fuse: ____.
Circuit 3: Wire Size L1____, L2____, G____. Equipment Breaker/Fuse: ____.
Minimum Return air grill size: _____. Note Location of the Thermostat: _____.
- From the **MANUFACTURES DATA PLATE**, record the following: (*Outdoor Split System or Package Unit*)
Outdoor Supply Circuit Type: ____ Single. **Disconnect (W/I Sight)** _____.
VAC Rating: ____ Total AMP Draw ____ Wire Size L1____, L2____, G____.
Maximum over current protection rating: ____ Equipment Breaker/Fuse: ____.
Auxiliary Heat - Circuit Type: ____ Single ____ Dual _____. **Disconnect** _____.
VAC Rating: ____ Total AMP Draw ____ **Maximum** over current protection rating: ____.
Circuit 1: Wire Size L1____, L2____, G____. Equipment Breaker/Fuse: ____.
Circuit 2: Wire Size L1____, L2____, G____. Equipment Breaker/Fuse: ____.

- 4) **AT THE SERVICE PANEL:** Record fuse/breaker size of the furnace circuit: **Indoor** _____ **Outdoor** _____.
Indoor: Are the breakers amp ratings the proper size? _____ Y _____ N.
Outdoor: Are the breakers amp ratings the proper size? _____ Y _____ N.
 Is branch circuit wiring correctly sized? _____ Y _____ N. Use wire gauge to verify wire size.

NOTE: If data plate information is not present, refer to NFPA-70 NEC for circuit breakers and wiring size. Skip to the analysis section to determine amp draw of unit.

UNIT ANALYSIS (To be performed by qualified evaluator or technician)

Heating unit voltage check: (unit not activated)

- 1) Take a voltage reading across the two hot legs: **Indoor:** _____ **Outdoor:** _____ **Aux:** _____ Volts.
 (Voltage should be 240 volts, plus or minus 10%)

TOTAL AMP DRAW UNIT ACTIVATED.

- 1) Take an amp draw test by clamping an amp meter around one of the 120 volt "hot" legs of incoming main supply. On a dual circuit supply, clamp amp meter around one leg of each supply circuit, measure the amp draw of each, and add together for the total amp draw. Record total amp draw after unit has operated a sufficient time: Indoor _____ Outdoor _____ AMPS. Do these amp readings match the data plate? _____ Y _____ N. **IF NO, a problem exists in the unit that must be diagnosed.**

PERFORM TEMPERATURE RISE / DROP TEST

- 1) Supply Temp _____ minus Return Temp _____ = Temperature Rise _____. (40-70 degrees is normal) Proper range _____ Y _____ N.
 2) Supply Temp _____ minus Return Temp _____ = Temperature Drop _____. (18-20 degrees is normal) Proper range _____ Y _____ N.

Description of problems:

POST INSPECTION

VAC Rating: _____ **Maximum** over current protection rating: _____.
 Circuit 1: Wire Size L1 _____, L2 _____, G _____. Equipment Breaker/Fuse: _____.
 Total AMP Draw _____. VAC Rating: _____ **Maximum** over current protection rating: _____.
 Circuit 2: Wire Size L1 _____, L2 _____, G _____. Equipment Breaker/Fuse: _____.
 Total AMP Draw _____. VAC Rating: _____ **Maximum** over current protection rating: _____.
 Circuit 3: Wire Size L1 _____, L2 _____, G _____. Equipment Breaker/Fuse: _____.
 Total AMP Draw _____. VAC Rating: _____ **Maximum** over current protection rating: _____.
 Wire Size Correct? _____ Y _____ N

POST INSPECTION CERTIFICATION: I certify that ALL repairs have been performed in compliance with Energy Systems policies and testing standards of the Kentucky Weatherization Program Manual, and to the best of my knowledge all energy systems are functioning properly and Regular Weatherization measures can now be performed.

_____ Date

Post Inspector