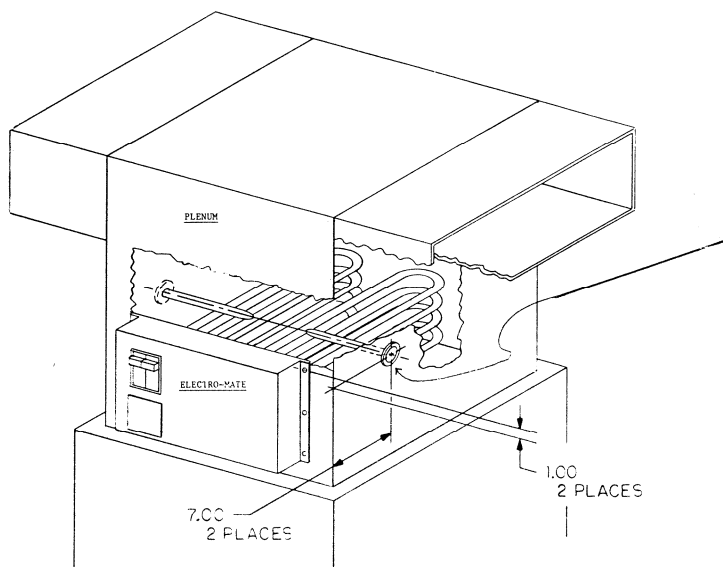


ATTENTION INSTALLER:

The attached certification warranty document must be completely filled out and tests performed prior to leaving the installation. In order to be eligible for warranty, it is vital for a copy of this certification to be on file at Electro Industries, Inc. A copy of this completed warranty certification should be given to the end use (homeowner) along with placing the manual in a convenient location for future troubleshooting reference.



Plenum Thermometer
Must measure and record
plenum temperature 2" to 4"
above top element, both
sides. 140°F maximum
allowed.

Complete the following warranty sheet and return to:



ELECTRO INDUSTRIES, INC.

2150 West River Street, PO Box 538, Monticello, MN 55362
763.295.4138 • 800.922.4138 • fax 763.295.4434
sales@electromn.com • www.electromn.com

Warranty
WarmFlo II Electro-Mate Certification Sheet
EM-WU*****



In order to retain complete warranty rights, the complete certification sheet must be completed and returned to Electro Industries, Inc. If this test sheet is not completed in total (especially plenum temperature test) and sent to the factory, the 20-year element warranty will not apply. A copy of this certification sheet should be given to the end user.

WarmFlo II Model# EM-WU _____ ARL# _____
Furnace Interface # WF- _____ Serial # _____
Installing Company _____ Phone (_____) _____
Installer's Name _____
Customer's Name _____ Phone (_____) _____

System Information

Gas/Oil Furnace Manufacturer & Model _____
Heat Pump Manufacturer & Model _____
Air Handler CFM _____ Plenum Width _____" Depth _____"

Final Checkout and Operation Tests

The following steps help ensure the system is functioning correctly and has adequate baffling and airflow to ensure proper element life and operation. Depending upon your system interface the checkout procedure is different. Select the appropriate interface checkout and fill in the information requested.

EM-WU*** with Furnace Interface WF-EZ3 or WF-LGR3**

Testing should be with filter and air handler doors in place. Temperature recording needs to be recorded 2" to 4" above top element on both sides.

- Set front efficiency dial to "Full"
- Set inside ODT dial (top yellow dial on WF II) to #3 or 0°F
- Using the WF Analyzer set outside temperature to 5°F
- Initiate thermostat call with system in electric mode
 - Verify heat pump is operational and producing heat, not cooling
- Once verification of heat pump operation is made, using the WF Analyzer set outside temperature to -5°F
- This function should shut down heat pump and allow electric elements to remain on.
- Verify red LED's on WF II board are beginning the process of staging on (blinking or on full red).
- Before starting "call for heat", verify 0 current at all 240 power wires.
- With full heat output, wait 5 to 10 minutes to stabilize temperature and take the following readings:
 - 240 heating power, voltage _____
 - Measured 240 power amps, current _____ (if double feed, 2 values)
 - Measure transformer control, voltage _____
 - Plenum temperature as specified on sketch:
 - Right _____
 - Left _____
 - As you are performing this test, please monitor the red LED located on the inside back control panel of the Electro-Mate. If this LED comes on during this process, the unit is cycling on the 170°F hi-limit. Airflow or other adjustments must be made, see product manual for mechanical installation requirements.
 - Did red LED illuminate? Yes/No

- If so, what changes were made to the system to eliminate the hi-limit cycling?

- Once above test are completed, return all settings to normal – including removing WF analyzer offset entry (000 then save)
 - Return and verify settings:
 - Outdoor sensor temperature readout
 - Efficiency knob – B or C
 - ODT dial setting
 - Minimum warm air dial

EM-WU*** with Furnace Interface WF-EM3**

Testing should be with filter and air handler doors in place. Temperature recording needs to be recorded 2” to 4” above top element on both sides.

- Before starting “call for heat”, verify 0 current at all 240 power wires.
- Using WarmFlo Analyzer set outdoor sensor temperature to -20°F
- With full heat output, wait 5 to 10 minutes to stabilize temperature and take the following readings:
 - 240 heating power, voltage _____
 - Measured 240 power amps, current _____ (if double feed, 2 values)
 - Measure transformer control, voltage _____
 - Plenum temperature as specified on sketch:
 - Right _____
 - Left _____
 - As you are performing this test, please monitor the red LED located on the inside back control panel of the Electro-Mate. If this LED comes on during this process, the unit is cycling on the 170°F hi-limit. Airflow or other adjustments must be made, see product manual for mechanical installation requirements.
 - Did red LED illuminate? Yes/No
 - If so, what changes were made to the system to eliminate the hi-limit cycling?

- Once above tests are completed, return all settings to normal – including removing WF analyzer offset entry (000 then save)
 - Return and verify settings:
 - Outdoor sensor temperature readout
 - Temp. setting
 - ODT dial setting
 - Minimum warm air dial

Installer

The Electro-Mate plenum heater specified above has been installed in accordance with the unit nameplate marking and the installation instructions provided. The electrical wiring has been inspected by the electrical inspection authorities.

Installer’s Signature

Date

End User

Proper completion and distribution of this form by your installing contractor will ensure that the Electro-Mate plenum heater is installed to the manufacturer’s requirements.

_____ Received instructions on operation of equipment

_____ Received instruction manual

End User’s Signature

Date