

ELECTRO INDUSTRIES - FIELD SERVICE BULLETIN

Bulletin Number 1100 Date October 23, 2006

Product Name WarmFlo – Heat Pump Interface Module – 2-Speed HP

Affected Product Model Numbers: WF-HP2

Serial # _____ through _____

ARL # _____ through _____

Production Date _____ through _____

FIELD INFORMATION

Information – This pertains only to Lennox XP- with control board 86M38.**

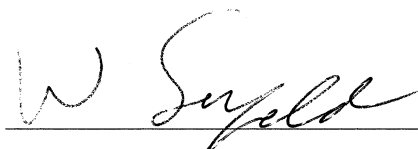
Defrost mode – after considerable evaluation and “trial and error design change” it has now been confirmed (at three locations) that there is a “relay race” situation with the Lennox outdoor unit W1 output in relationship to the Lennox control board also causing the reversing valve O terminal to go high. The HP2 board “masks out” the inadvertent raising of the “O” wire when it sees the W1 input. However, if the O goes high before the W1 the HP2 board “is confused” and locks up.

Solution – The WF-HP2 has a design and installation provision for **conventional** room thermostat, where the reversing valve (O) function is developed within the Electro HP2 board. For this particular application situation the installer **must use** a conventional HEAT/COOL or 2HEAT/2COOL room thermostat. On the HP2 board set the pin jumper to “H/C”.

Other Information

1. Is 4-wire, 1HEAT/1COOL adequate? Basically, yes. With this thermostat the cooling will begin at low speed (95% of upper Midwest cooling) and an adjustable built-in timer (SOT) would automatically jump the cooling to high speed after an elapse of 60 or 90 minutes. If you would like to do a Y1 and a Y2 cooling, use a conventional 2HEAT/2COOL room thermostat. **Note:** The W2 is not used or required for the HP2 controller; however, the W2 could be connected for a possible use of a W2 at the gas furnace.
2. The newer “sophisticated” room thermostats – Provision 8000, Vision Pro TH5200, TH8300, Robert Shaw Invenstys, etc. – typically have an installer setup function called System Type Selection (STS) which allows a 1HEAT/2HEAT or 2HEAT/1HEAT conventional arrangement (option 1).
3. The override switch on the HP2 unit provides manual emergency switchover to the **standby** or gas.
4. If there is a need or desire to energize the full Electro-Mate capability as an emergency (dropping HP) situation, a separate toggle switch can be added between the stat-W and the E-WF tab.

Approval



Date

10-23-06