



SANYO Commercial Solutions

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Technical Service Bulletin

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Category: Commissioning ECOi System

Topic: Unit Will Not Start, New Installation, 3 phase wild leg involved

Applicable Product: ECOi 3 Phase Outdoor Units: CHDX09053, CHDX14053

Indication:

- Outdoor unit will not start.
- Auto Addressing could not be accomplished.
- Once power is supplied to outdoor unit all LED's go off after approximately 15-20 seconds. Then, after approximately every 15-20 second interval the Power LED (D53) blinks and a slight "whizzing" sound could be heard when the blink occurs.

Common Cause:

- 3 Phase "Wild" leg applied to the outdoor units power supply terminals.

Probable Source of Problem:

- 3 Phase wild leg applied to outdoor terminals L1 or L2 rather than to terminal L3. On some outdoor units these terminals may be identified as R rather than L1, S rather than L2 and T rather than L3.

Diagnostic Procedures:

1. Measure the voltage of each phase to ground. For example:
 - a. L1 to Ground = 123 Volts
 - b. L2 to Ground = 217 Volts (this would be the wild leg)
 - c. L3 to Ground = 123 Volts
2. Measure phase to phase to insure acceptable voltages. For example:
 - a. L1 to L2 = 249 Volts
 - b. L1 to L3 = 249 Volts
 - c. L2 to L3 = 249 Volts

Corrective Actions:

1. Connect the "wild leg" to the "L3" (or "T") power supply terminal of the outdoor unit. Connect the other two phases to L1 and L2.
2. Reapply power to the outdoor unit.
3. If the system still fails to operate or to allow initiation of the Auto Address function a "reverse phase" may be causing the problem. If so, turn power off and reverse the wires attached to L1 and L2.
 - a. Note: Reverse phase may also be indicated by the fault code "P05".

For additional details please access our technical literature using our website at www.sanyohvac.com or contact our technical service department at 800-851-1235.