

# COMPRESSOR **NOT** RUNNING

**NOTE:** The compressors are virtually silent when running. Check compressor for vibration. Fan may run even when compressor not running. Disconnect fan if necessary to assist troubleshooting. [pdf](#) [VIDEO](#)

Is there a diagnostic LED installed? This will either be an add-on item connected to the Danfoss/Secop controller, or on a *Master* control box, Merlin II, SSC, or Guardian? [pdf](#) [VIDEO](#)

**YES**

**FLASHING/ON** [pdf](#) [VIDEO](#)

- 1 Flash - Low Voltage. Test power
- 2 Flashes - Bad Fan - Replace Fan
- 3 Flashes - Compressor Non-Start
- 4 Flashes - Compressor Faulty
- 5 Flashes - Overcharged or water in system
- Other sequence or on continuously?

**OFF/NOT FLASHING**

Check that supply voltage is over 11.7v/24.2v, then:

**NO**

Remove Merlin, Speed Board, or wires from C and T terminals on Danfoss/Secop controller. Bridge C and T terminals. Does compressor run?

**NO**

Test power supply. [pdf](#) [VIDEO](#)

Does power supply test good?

**NO**

Resolve power supply problem.

**YES**

Possible controller failure. Contact Coastal for replacement or testing options.

**YES**

**NOTE:** If no Merlin or Speed Board, just wires, go here:

Remove bridge. Reinstall Merlin or Speed Board and now bridge C and T terminals on these items.

Does compressor run?

**YES**

Remove bridge. Reconnect original wires to C and T terminals on Merlin, Speed Board, or controller.

Does compressor run?

**YES**

System working correctly.

**NO**

Faulty Merlin I or Speed Board. Remove faulty item and source replacement.

**NO**

Thermostat settings incorrect or thermostat faulty. Set thermostat correctly or repair/replace thermostat. If *Master* control box installed, connect wires from thermostat directly to C and T on controller. If compressor runs, *Master* control box is faulty.