5 SERIES



TROUBLESHOOTING GUIDE

An Exclusive Brand of Chadwell Supply

Removing the access panel reveals the unit control boards: These control boards, which have been installed in <u>both straight cool</u> and <u>heat pump applications</u> in the 14.3 SEER2 line, are **designed to protect the unit**, and, if there's a problem, **to tell you exactly what's wrong**.

FAN CONTROL BOARD

THEN...

The smaller of the two boards controls the fan motor. Look for the **RED LED.**



Fan motor is running properly.

Fan motor has an issue.

To troubleshoot: ① Disconnect the power, ② Unplug the fan motor using the quick-connect, and ③ Test the fan motor.

MAIN CONTROL BOARD

The larger board is a DC inverter. It controls the compressor and monitors voltage to the unit and the sequence at startup. The compressor comes on first, then the motor comes on.

IF		THEN
YELLOW	GREEN	
OFF	ON	Outdoor unit is running properly.
OFF		Outdoor unit is in standby mode and may be running a diagnostic. Wait up to 5 minutes for this cycle to complete.
BLINK		The outdoor unit found an error. Refer to LED DIAGNOSTIC TABLE. System will try to restart. Wait up to 5 minutes.
		If system cannot clear error, it may lock. See LOCKED SYSTEM TABLE to diagnose and fix the error.

LED DIAGNOSTIC TABLE

IF GREEN ON AND YELLOW BLINKING SYSTEM FOUND ERROR *The number of times the light blinks every 8 seconds indicates issue below?

The nu	imber of times the light blinks every 8 seconds indicates issue below
	Outdoor unit coil (T3) temperature sensor error
	Ambient (T4) temperature sensor error
3	Compressor exhaust (T5) temperature sensor error
	Low pressure protection
5.	High pressure protection
6 x	Outdoor unit coil (T3) high temperature protection
	Compressor exhaust (T5) high temperature protection
8x	Fan motor feedback error





LOCKED SYSTEM TABLE





Find us on 😝 🗿 in 🕒

Temperature sensor error

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TROUBLESHOOTING GUIDE

5 SERIES



Brothers 14.3 SEER2 Condenser

Smaller, tougher, stronger—with clear diagnostic lights for fast, easy troubleshooting.

New product features meet or exceed current SEER2 regulations while protecting the compressor and delivering a quieter, more efficient, and easier to maintain condenser.

- ▶ The main control board is a **DC inverter**, to achieve the 14.3 SEER2 rating.
- ► The boards are installed in both the **straight cool** and **heat pump** applications.
- Designed to protect against catastrophic failure.
- High and low-pressure switches help protect the unit.

Learn more: ChadwellSupply.com/Brothers





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