SOLAR PRO.

**SolarInnovate Energy Solutions**

# Outdoor power AC loss

## Overview

Why does my air conditioner stop working?

Safety Switch Activation: Overflow or high-pressure switches may shut down the unit to prevent system damage. Motor Failure: Broken fan or compressor motors will stop external unit movement. Wiring or Connection Faults: Damaged electrical connections impede power delivery.

Why is my AC not running?

Among all issues, capacitor and contactor failures are exceptionally common in AC outside units not running. The capacitor stores energy to jumpstart the compressor and fan motors, while the contactor is a heavy-duty relay switching high-voltage power on and off. Burnt, swollen, or leaking capacitors require immediate replacement.

What should I do if my HVAC unit is not working?

Wait For Capacitor Discharge: Electrical parts can hold a dangerous charge even when power appears off. Avoid Opening The Unit Unnecessarily: Only proceed with basic exterior checks unless trained in HVAC repair. Try these logical troubleshooting steps to isolate and address the problem: 1. Check The Power Supply.

What happens if a air conditioner doesn't run?

It expels heat absorbed from inside your home into the outdoor air. Its major components include the compressor, condenser coil, fan, capacitor, and contactor—all housed in a weatherproof enclosure. If the unit does not run, the cooling process is disrupted, causing indoor temperatures to rise. Compressor: Pumps refrigerant through the system.

Why does my AC keep shutting down?

Clogged Air Filter: Restricted airflow can indirectly cause safety shutdowns or limit AC operation. Refrigerant Problems: Low or leaking refrigerant prevents

normal functioning. Safety Switch Activation: Overflow or high-pressure switches may shut down the unit to prevent system damage.

What should I do if my AC is not working?

Diagnose Refrigerant Issues: Low levels or leaks need EPA-certified service. Check Motors, Relays, And Internal Wiring: Complex repairs should be handled by licensed HVAC technicians. Among all issues, capacitor and contactor failures are exceptionally common in AC outside units not running.

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