## SAMSUNG

**SERVICE GUIDES** E389 ERROR CODE

Tech Support (888)-699-6067 7am to 6pm CST (M-F)

Revision Date: 12/20/2024 Subject: E389 Error Code Models: DVM, CHILLER

**Title:** Outdoor Unit Fan Motor 2 Stopped Due to Overload (V-Limit)

Fan 2 is on the right-hand side of unit

## Troubleshooting Steps

- 1. Remove power to the condensing unit for a minimum of 15 minutes.
- 2. Inspect the fan blade and make sure there are no obstructions.
- 3. Verify blade spins freely.
- 4. There are two plug connections for each fan motor. Power (red, white, and black) and hall effect sensor.
- 5. Follow and inspect wiring. Make sure there is no damage to wires or plugs.



Fan #2 is on the right-hand side of unit

- 6. Make sure all plugs and spade connectors are secure and connected properly.
- 7. Disconnect power plug (Fan motor 1 is white plug, Fan motor 2 is blue plug) Check resistance at plug going to Fan motor. Red-White, Red- Black and White to Black. The resistance value between each winding should be equal, under  $10\Omega$  and open to ground

If all values are within range, you have 2 options: Continue on page 2







## **Option 1- No inverter tester**

- 1. Reverse connector plugs for Fan motor 1 and Fan motor 2. (Fan Motor and Hall Effect plug)
- 2. Restore power to the unit. If the E389 error returns, replace fan PCB. If the error changes to E489, replace the fan motor.

## **Option 2- Inverter check**

- 1. Remove power from unit for minimum of 15 minutes. Remove Fan connections from Fan PCB and connect inverter checker.
- 2. Restore power to unit. Press K2 button 12 times to initiate the inverter test for fan motor 2.
- 3. If the inverter test fails, replace Fan PCB. If it passes, replace Fan motor.

See the Video showing this troubleshooting technique. Click the icon below:





\*\* Before reconnecting any wire harnesses, leave the unit powered OFF for 15 – 20 min\*\*