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

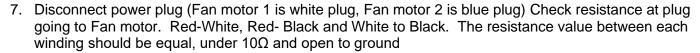
Revision Date: 12/19/2024 Subject: E446 Error Code Models: DVM and Chiller

Title: Failure to Start Fan Motor 1 ODU

Fan 1 is on the left-hand side of the unit

Troubleshooting Steps: Condenser with 2 Fans

- 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.
- There are two plug connections for each fan motor. Power (red, white, and black) and hall effect sensor. (See Fan Motor Connector Image)
- 5. Follow and inspect wiring. Make sure there is no damage to wires or plugs.
- 6. Make sure all plugs and spade connectors are secure and connected properly.



- 8. Reverse connector plugs for Fan motor 1 and Fan motor 2. (Fan Motor and Hall Effect plug)
- 9. Restore power to the unit. If the E446 error return, replace fan PCB. If the error changes to E346, replace the fan motor.

If results are inconclusive, and you have an inverter checker tool, continue to inverter Fan PCB test.

- 10. Remove Fan connections from Fan PCB and connect inverter checker.
- 11. Press K2 button 11 times to initiate the inverter test for fan motor 1.
- 12. If the inverter test fails, replace Fan PCB. If it passes, replace Fan motor

See the Video showing this troubleshooting technique. Click









Fan #1 is on the left-hand side of unit

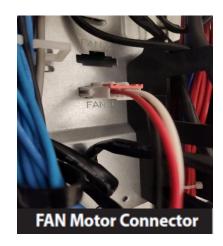
SAMSUNG

Troubleshooting Steps: Condenser with 1 Fan

- 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.
- Verify blade spins freely.
- 4. There are two plug connections for fan motor. Power (red, white, and black) and hall effect sensor. (See Fan Motor Connector Image.)
- 5. Follow and inspect wiring. Make sure there is no damage to wires or plugs.
- 6. Make sure all plugs and spade connectors are secure and connected properly.
- 7. Disconnect power 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 10Ω and open to ground
- 8. If all values are within range, remove fan connections from board and connect inverter checker to Fan PCB.
- 9. Press K2 button 11 times to initiate the inverter test for fan motor 1.
- 10. 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**