

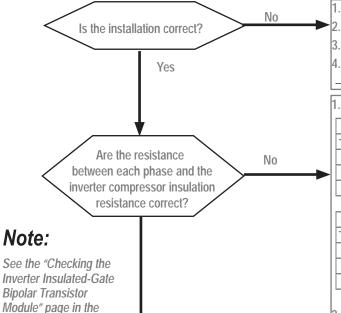
ERROR CODES

Error No. 29

AWARNING

Please refer to the Safety Precautions on pages 4-7 for more detail to prevent injury or death regarding the operation and service troubleshooting of the Multi V product.

| Error No. | Description | Details | Causes |
|---|---|--|---|
| 29 Master: 291 Slave 1: 292 Slave 2: 293 | Outdoor unit inverter compressor overcurrent error. | Inverter compressor input current is >30A. | Overload operation (piping is clogged, indoor or outdoor unit is blocked, EEV is defective, refrigerant is overcharged). Compressor insulation and / or motor is / are damaged. Input voltage is low. Outdoor unit Inverter PCB assembly is damaged. |



Yes

Yes

Yes

Yes

Are the compressor wiring

connections correct?

Is the input voltage normal?

Is the compressor PCB assembly correct?

Recheck power and installation.

No

No

No

- 1. Check if piping is clogged or has been damaged.
- 2. Check if outdoor or indoor units are blocked.
- 3. Check the EEV connector assembly and verify it is operating normally.
- 4. Check the refrigerant pressure.
- → Reinstall or fix if problems are found.
- 1. Check the resistance between each compressor terminal.

| JQC068MA | | | |
|----------|-----------------------|-----------------------|--|
| Temp. | 77°F | 167°F | |
| U-V | $0.216 \pm 7\%\Omega$ | $0.258 \pm 7\%\Omega$ | |
| V-W | $0.216 \pm 7\%\Omega$ | $0.258 \pm 7\%\Omega$ | |
| W-U | $0.216 \pm 7\%\Omega$ | $0.258 \pm 7\%\Omega$ | |

| | JQC048IVIA | | |
|-------|-----------------------|-----------------------|--|
| Temp. | 77°F | 167°F | |
| U-V | $0.302 \pm 7\%\Omega$ | $0.360 \pm 7\%\Omega$ | |
| V-W | $0.302 \pm 7\%\Omega$ | $0.360 \pm 7\%\Omega$ | |
| W-U | $0.302 \pm 7\%\Omega$ | $0.360 \pm 7\%\Omega$ | |

| l | JO | JQC068MB / JQC068MBA | | |
|---|-------|----------------------|-----------|--|
| l | Temp. | 77°F | 167°F | |
| l | U-V | 0.113±7%Ω | 0.135±7%Ω | |
| l | V-W | 0.113±7%Ω | 0.135±7%Ω | |
| ١ | W-U | 0.113±7%Ω | 0.135±7%Ω | |
| ı | | | | |

| JQC048MB / JQC048MBA | | |
|----------------------|-----------|-----------|
| Temp. | 77°F | 167°F |
| U-V | 0.113±7%Ω | 0.135±7%Ω |
| V-W | 0.113±7%Ω | 0.135±7%Ω |
| W-U | 0.113±7%Ω | 0.135±7%Ω |

- Check insulation resistance between compressor terminal and pipe (>50ΩM).
- → Replace compressor if errors are found.
- 1. Check Inverter compressor PCB assembly, U,V,W connections.
- 2. Check if the wires have disconnected or were damaged.
- Check compressor terminal connections for bad contacts.
- → Reassemble if errors are found.

Check if R~S / S~T / T~R phase voltage is <180V or >253V (for 208-230V units), or <414V or >528V (for 460V units).

→ Check connections and wiring if power is not correct.

Check if Inverter compressor PCB assembly and IPM are correct.

→ Replace Inverter compressor PCB assembly if errors are found.

Note:

Always apply heat transfer paste to the new inverter PCB heat sink before installing. For instructions, see "Replacing the Inverter PCB Heat Sink" page later in this section.



"Troubleshooting Main

Components" section.

ERROR CODES



Error No. 29, continued.

AWARNING

Please refer to the Safety Precautions on pages 4-7 for more detail to prevent injury or death regarding the operation and service troubleshooting of the Multi V product.

Measure resistance between compressor terminals.



Measure input voltage.



Note:

Images here are representative of system components. Actual component appearance depends on model and system type.

Compressor wiring connections.





