

BAE Troubleshooting Guide for MovinCool Classic 26 spot cooling units.

It is the rental customers' responsibility to ensure the unit is operated according to manufactures specifications. If a unit shuts down during normal operation, does not operate or stops providing cool air there are five general areas of concern on each unit that must first be inspected and addressed prior to contacting the supplier for technical assistance. These five areas are:

- Condensate fill tank.
- Clean air filters and proper air flow across the coils:
- Exhaust ducting unobstructed and properly directed.
- Proper voltage/electrical requirements are met.
- Ambient air temperature in space to be cooled.

In detail:

- Check the condensate tank:
The condensate tank may be full. This may be indicated by either a small red light illuminated near the control panel or, on units with an LCD display it may indicate "TANK FL". Simply open the lower access door to the tank and verify the water level. A nearly full tank will shut the unit down and must be drained. Once the tank is emptied and reinstalled in the unit press the COOL ON/OFF button to restart the unit.
- Check for proper air flow across the coils:
The unit must maintain efficient air flow to properly function. Due to the nature of work performed in industrial and commercial environments dirt and dust often accumulates at a high rate often clogging the unit air filters and coils. The restricted airflow causes the unit to shut down in order to protect its internal components. Keeping the unit and filters clean and airflow unobstructed while in use is a responsibility of the rental customer! In addition to keeping filters clean, maintain a minimum of 18 inches of unobstructed airflow around unit air inlets/outlets.
- Check that exhaust air ducting is not obstructed.
The warm/hot exhaust air from the top of the unit must be ducted away from the space being cooled and the rate of exhaust airflow cannot be hindered. Excessive bends in or flattening of the exhaust ducting or other factors that may reduce airflow through the ducting will cause compressor shut down due to high head pressure.
On units with an LCD display this problem may be indicated by a "HP" or blinking "HP" accompanied by a buzzer sound. Once a restricted airflow condition is corrected and unit cools down it resets automatically EXCEPT when the unit displays a blinking "HP" and/or buzzer sound. In this case the unit must be reset by pressing the FAN HI/LO and COOL ON/OFF simultaneously buttons for 3 seconds.
- Check for proper operating voltage. NOTE: This is the most common problem affecting proper operation of these spot cooling units when used onboard ships supported by BAE Systems.
MovinCool Classic Plus 26 units require 208/230 VAC Single Phase 60Hz rated at 20A or higher. In troubleshooting electrical requirements, **the voltage (minimum of 208 VAC) must be measured and verified ON THE UNIT when the unit compressor is running in order to ensure operation.** Voltage drops from a transformer supply source to the intended end unit is very common onboard ships due to various load demands on the same circuit, length and gauge of electrical supply cables, etc. These units must maintain a minimum consistent 208 VAC supplied at the unit while it is running and drawing power.
- Ensure ambient air temperature in the space to be cooled is not too hot.
MovinCool Classic 26 units are not designed to run where the ambient air temperatures in the space to be cooled exceed 113 degrees Fahrenheit. If possible, the space must be ventilated down to below 113 degrees before the unit will function properly and continually provide cooling air.