

Name: _____ Phone: _____ Email: _____

Are you having problems with the electrical supply for a compressor purchased from Nuvair? If so, please complete this *Electrical Trouble Shooting Checklist* before calling us for assistance. Answers to the following questions will help us in diagnosing your compressor electrical issue.

1. **What is the electrical voltage supply?** 110–120V · 208–230V · 380–415V · 440–480V · 50 Hz
 60 Hz · Single Phase (E1) · Three Phase (E3)
2. **Is the compressor wired to the main panel or subpanel?** Main panel Sub panel
3. **What size wire runs from panel to equipment?** [_____ gauge]
4. **How far is the equipment from the main breaker?** [_____ feet meters]
5. **What size AMP breaker is used for the equipment circuit?** [_____ Amps]
6. **What size is the main AMP breaker on the panel?** [_____ Amps]
7. **What size wire is feeding the main panel?** [_____ gauge]
8. **Using an electrical meter and with the compressor turned off, what is the measured voltage from:**
L1 to L2? [_____ V] · L2 to L3? [_____ V] · L1 to ground? [_____ V] · L2 to ground? [_____ V]
L3 to ground? [_____ V]
9. **With one compressor running, what is the measured voltage running from:**
L1 to L2? [_____ V] · L2 to L3? [_____ V] · L1 to ground? [_____ V] · L2 to ground? [_____ V]
L3 to ground? [_____ V]
10. **With all compressor components running, what is the measured voltage running from:**
L1 to L2? [_____ V] · L2 to L3? [_____ V]
L1 to ground? [_____ V] · L2 to ground? [_____ V]
L3 to ground? [_____ V]

Figure 1 Use leads to check voltage (in Figure 1, the amp clamp is used only used to hold the meter). Here, the red and black leads are attached to two hot legs that indicate 485V. The voltage across the lines indicates the power supplied.

Figure 2 Amperage can be read by turning the meter to A (amps) and clamping the amp clamp around one wire and running the compressor at full pressure to determine amp draw. Perform the test on each hot line. In Figure 2, the meter reads 24.7 amps.



Figure 1.



Figure 2.