

## *Voltage Drop thru Extension Cords*

- Recovery equipment is used primarily in the hot summer months when supply voltage can be at the lowest point of the year due to the demand from A/CR equipment operating at peak conditions
- When low supply voltage and a long, undersized extension cord are combined, it will have a disastrous effect on equipment performance and can lead to electrical equipment failure.
  - The **G5 Twin and G1 Single** designed with features that allow the unit to shut itself off when subjected to overheating due to low voltage.
- Extension cords, when sized properly, and kept as short as possible, will deliver the available supply power without excessive voltage drop to the equipment through the cord itself.
- **Oversized** extension cords have less resistance, less voltage drop, and operate at lower temperatures, increasing the efficiency and life expectancy of both the equipment and cord itself.
- However, extension cords that are **undersized**, or **longer than needed**, have higher resistance, greater voltage drop, run hotter, and are the primary reason for poor equipment performance and field service electrical equipment failures.

### **Recommended Extension cord sizes for industrial-duty field service electrical equipment:**

- Up to 25 feet – 12/3 UL/CSA cord
- 25 to 100 feet – 10/3 UL/CSA cord

***Service tip:** Always use the shortest length and largest gauge extension cord possible when operating industrial-duty field service electrical equipment.*