

# Cardiosave IABP

## System Enhancements

The Cardiosave IABP System has been updated to enhance reliability, safety, and overall performance. These improvements will be installed in Cardiosave pumps currently in use and are also included in all newly manufactured systems.

### Battery and Power Management

- **Battery Maintenance Monitoring**  
Software now monitors Li-ion battery condition and alerts users for maintenance or replacement
- **Battery Charging Failure**  
New Power Management Board and Solenoid Board address charging issues due to prior electrical surges
- **Tantalum Capacitor Failures**  
Hardware updates to prevent unexpected shutdowns
- **Shutdown Upon Battery Removal**  
Software prevents therapy interruption when batteries are removed
- **Docking Power Battery Failure**  
"Out of Cart" banner added to display screen
- **System Over Temperature**  
Hardware improvements enhance internal heat dissipation

### Cybersecurity and Connectivity

- **Ripple 20 Vulnerabilities**  
Software updates eliminate known cybersecurity risks affecting HIS/CIS communication

### Display & Helium Accuracy

- **Code 111/112 Processor Board Errors**  
Software now resets display without interrupting therapy
- **Helium Indicator Accuracy**  
Software reduces likelihood of inaccurate readings during continuous EMC disturbances

### Fluid and Blood Ingress Protection

- **Fluid Ingress**  
New protective cover, removal of IV pole, and transport covers added
- **Blood Entry into Console**  
Blood containment filter and alarm added to mitigate shutdown risk
- **Enhanced Blood Detection**  
Improved algorithm enables earlier detection of balloon perforation

**New production pumps also include enhancements that, when used with the new transport mounting plate, meet the latest and more stringent shock and vibration standards.**



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