COBE® PERFUSION CONTROL SYSTEM

- Complete open heart system
- Computerized Perfusion Controller
- All essential monitoring and performance information is conveniently located in one place
- The Air Emboli Protection System provides maximum protection against air emboli during surgery
- Controller allows monitoring of both negative and positive pressures within the system

Specifications

**Computerized Perfusion Controller**

**Timer Function**
Range: 00:00:00 to 59:59:59 (hours:minutes:seconds). Accuracy: ±1% of actual elapsed time.

**Temperature Monitor**
Display range: 0°C to 50°C. Display resolution: 0.1°C. Accuracy: ±1.0°C (between 10°C and 45°C). Trend interval: past 60 minutes of temperature data for any channel.

**Pressure Monitor**
Pressure alarm range: -200 to +400 mmHg. Pressure limit range: -210 to +450 mmHg.

**Air Emboli Protection System**
Level detection sensitivity: within diameter of transducer (1 cm). Bubble detection sensitivity: > 0.7ml at flow rates <6.5 LPM with 3/8” x 3/32” tubing; >0.3 ml at flow rates <3.0 LPM with ¼” x 3/32” tubing. Response time for pump to stop: less than 1 second.

**Cardioplegia Delivery System**
Display ranges: last volume delivered – 0 to 9999ml; total volume delivered – 0 to 9999 ml. Time since last delivery – 0 to 9999. Delivery accuracy: ±10% of desired volume

**General**
Power consumption: 150 watts. Electronic module dimensions: 51 cm (20”) L x 18 cm (7.1”) W x 30 cm (12”) H; weight: 10 kg (22 lbs). Monitor module dimensions: 30 cm (12”) L x 25 cm (10”) W x 24 cm (9.5”) H; weight: 7 kg (15 lbs.)

**Precision Blood Pump**
Display
0-250 RPM (bi-directional); 0-9.99 LPM. Display accuracy: ±2% of reading or 1 count, whichever is greater.

General
Power consumption: 280 watts maximum, 150 watts typical. Dimensions: 49 cm (19.3”) L x 18 cm (7.1”) W x 28 cm (11”) H; weight: 24 kg (52 lbs)

**Uninterruptible Power System**

**Electrical**
Input voltage: 120 VAC + 10% - 15%, input frequency: 47 Hz to 63 Hz, input current: 12 amp (1kVA) at nominal line. AC input protection: 15 amp circuit breaker. Output power: 1 kVA (800 watts). Output power factor: unity to 0.8 lagging. Output current: 8.3 amp. Output voltage: 120 VAC. Voltage regulation: ±2%. Overload: 115% for 10 minutes of rated output power

**Dimensions**
67 cm (26”) H x 24 cm (9.5”) W x 73 cm (28.5”) D. Weight: 62 kg (136 lbs).

**Battery**
Full load – 5 pumps, computerized perfusion controller and lamp: 10 minute back up. Partial load – 3 pumps, computerized perfusion controller: 20 minutes back up. Low load- 1 pump, air emboli protection system and lamp: 110 minutes back up.

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