



The **Medtronic Cobe Century Heart-Lung Machine** is a modular system that incorporates features important to the perfusionist; a sturdy and compact design and easy-to-use components at an affordable price. The addition of a Bio-Console 560 centrifugal arterial pump and data management uses Spectrum's Viper Vision are options that can be easily configured onto the Medtronic Century Heart-Lung Machine.

Features

- Arterial Pump - Easily configurable Bio-Console 560 Extracorporeal Blood Pumping Console.
- Cardioplegia Delivery System
- Data Management
- Base Console and Rollers



Specifications

Perfusion Pumps

Dimensions

Length: 22.1 in (56 cm)

Width: 7.1 in (18 cm)

Height: 13 in (33 cm)

Weight: 57 lbs (26 kg)

Display Accuracy (RPM)

± 2% of reading or ± count which ever is greater (without load).

Power

Power Consumption

Maximum: 280 Watts

Normal: 150 Watts

Leakage Current

100/115 VAC 12mA rms maximum

230 VAC 20 mA rms maximum

Occlusion

230 VAC 20 mA rms maximum

Console Bases

Dimensions

3: Width: 27 in (69 cm); **Weight:** 97 lbs (44 kg)

4: Width: 34 in (86 cm); **Weight:** 105 lbs (48 kg)

5: Width: 41 in (104 cm); **Weight:** 113 lbs (51 kg)

6: Width: 48 in (122 cm); **Weight:** 121 lbs (55 kg)

7: Width: 55 in (140 cm)

Power

Electrical Configurations

North America: 50/60 Hz; 115 VAC

United Kingdom: 50/60 Hz; 230 VAC

European Continent: 50/60 Hz; 230 VAC

Japan: 50/60 Hz; 100 VAC

Line Voltage Requirement: ± 10% VAC

Circuit Breakers

14 Amp 17/115 VAC

10 Amp 230 VAC



Specifications

Computerized Profusion Controller

Dimensions

Electronics Module

Depth: 21 in (53 cm)
Width: 7.1 in (18 cm)
Height: 12 in (31 cm)
Weight 30 lbs (13.6 kg)

Display Module

Depth: 2.4 in (6 cm) Without Mount
Depth: 8.7 in (22 cm) Without Fixed Mount
Width: 13.3 in (34 cm)
Height: 9.3 in (24 cm)
Weight 9 lbs (4 kg) With Mount

Timers (3 Channels)

Range: 00:00:00 to 99:59:59 (hours:minutes:seconds)
Accuracy: ± 1% of elapsed time

Power

Power Consumption

Maximum: 80 Watts

Circuit Breakers

1.0 Amp at 100/115 VAC
0.6 Amp at 230 VAC

Leakage Current

100/115 VAC 20 mA rms maximum
230 VAC 40 mA rms maximum

Temperature Monitors (6 Channels)

Display range: 0-50. C

Display resolution: 0.1.

Accuracy: ±1.0.C w/probe

Transducer compatibility

YSI-400 and YSI-500 with calibration
Pressure Monitor - 2 Channels
Pressure Alarm range: -200 to +400 mmHg
Pressure limited range -210 to +450 mmHg
Accuracy ±8 mmHg with transducer

Air Emboli Protection System (AEPS)

AEPS Open Reservoir Level Detection

Sensitivity: Within diameter of transducer (1 cm/0.4in.)~ 0 40 Hct. blood
temperature 10-40 °C



Specifications

Computerized Profusion Controller Cont.

AEPS Bubble Detection Sensitivity

> 0.7 ml at flow rates < 6.5 lpm with 3/8" x 3/32" tubing (PVC only)

> 0.3 ml at flow rates < 3.0 lpm with 1/4" x 3/32" tubing (PVC only)

Response time for pump control: < 1 second

Arterial line tubing compatibility: 3/8" x 3/32" or 1/4" x 3/32" (PVC only)

Cardioplegia Delivery System Display Range

Last volume delivered: 0 to 9999 ml

Total volume delivered: 0 to 9999 ml

Time since last delivery: 0 to 99:59:59 (hours: minutes:seconds)

Accuracy: ±10% of desired volume

