



The **Terumo Sarns 9000** is used in extracorporeal circulation of blood for arterial perfusion, regional perfusion, and cardiopulmonary bypass procedures. With occluder installed in the Sarns 9000, the operator can rapidly or gradually adjust the blood flow of the venous line. The 9000 has a backup battery pack which is constantly being charged when the system is in operation. If AC power failure occurs, the battery backup will automatically supply power to the system.

Features

- Arterial flow, oxygenation, air, and level detection have immediate automatic battery backup and function independently off the main computer.
- Arterial flow is protected by dual controls.
- Alarms, alerts, and status messages are automatically prioritized for the user.
- Allows the use of a roller or centrifugal pump for arterial perfusion.
- Air-bubble detection.



Specifications

Console Dimensions

Height: 25.3" (64.3 cm)
Width: 45.3" (115.1 cm)
Depth: 24" (61 cm)

Pump Dimensions

Height: 9" (20.3 cm)
Width: 8.75" (22.2 cm)
Depth: 14" (35.6 cm)

Central Display

Height: 10.5" (26.7 cm)
Width: 14.1" (35.8 cm)
Depth: 3.2" (8.1 cm)

Weight

Roller Pump: Approx. 31 lbs (14.5 kg)
Centrifugal Pump: 15 lbs (6.9 kg)
Total System: 470 lbs (213 kg)
Optional Water Mixer: Additional 60 lbs (27.2 kg)

Roller Pump

Tubing with a maximum outer diameter of .75" (1.9 cm) and wall thickness range of 0.0625 to 0.09375" (0.16 to 0.24 cm)
Recommended durometer range if 58-68
Speed: At 0-200 RPM, display accuracy is +/- 2 RPM; Resolution is 1 RPM.
From 200 RPM to a value within 248-258 RPM, display accuracy is +/- 1% of actual speed; Resolution is 1 RPM
Flow Rate: At 0.00-9.99 L/min. Displays 999 when > 9.99 L/min
Operating Modes: Continuous or Asynchronous Pulsatile.

Centrifugal Pump

Speed display range is 0-9999 RPM
Actual speed range is 0-3600 RPM
Flow sensing range is 0.7 to 0.7 L/min
Flow sensing accuracy is +/- 0.1 L/min within a range of 0.7 - 1.0 L/min and +/- 10% accuracy within a range of 1.0 - 7.0 L/min
Outflow capacity is 0-9.9 L/min
Outflow pressure is 0-700 mmHG
Flow display range with a sensor for 0.375" (0.95 cm) ID tubing is 0.50 - 9.90 L/min in 0.1 increments. Displays 999 when > 9.90 L/min
Operating Modes: Continuous flow or Asynchronous Pulsatile

