



The Sarns Modular Perfusion System 8000 is a compact heart-lung machine commonly used in cardiac surgery. Equipped with Terumo's proven technology, the cardiopulmonary bypass pump is designed with patient safety and user needs in mind. With the improved versatility, adaptability, and customizability, the Perfusion System 8000 is well-suited to be used in the extracorporeal circulation of blood for arterial perfusion, regional perfusion, and cardiopulmonary bypass applications.

The Terumo Sarns Modular Perfusion System 8000 is a versatile and compact heart-lung machine designed for use in cardiac surgery. The modular design and built-in features of the System 8000 enable the platform to be configured for current and future needs in the field. The modular features of the System 8000 enable the cardiopulmonary bypass pump to be set up in a variety of configurations. The System 8000 is available in a four-pump or a five-pump base with an option for acquiring a built-in centrifugal pump. The Perfusion System 8000 can be configured based on new protocols and individual patient needs. The cardiopulmonary bypass pump's flexibility enables the users to manage a specific case based on the definition of safety connection and responses, the utilization of the Central Control Monitor, and the implementation of the machine's built-in Sarns capabilities. The heart-lung machine also features a state-of-the-art Central Control Monitor. The Central Control Monitor is a high-resolution touchscreen computer designed to be used as a safety monitor and the central interface for operating the machine.

Features

- Modular design
- Four- or five-pump base
- Roller or centrifugal pumps
- Arterial and cardioplegia monitors for temperature, pressures and timers
- Battery module
- Electronic venous occluder
- Pulse mode
- Communications module for data acquisition



Specifications

Dimensions

Telescope pole: 1.30" (3.3 cm) diameter, 6-7 feet (1.8 – 1.9 m) height

4-Pump Unit

Height 25.8" (65.5 cm)
Width 33.3" (84.5 cm)
Depth 26.5" (67.3 cm)
Weight 330 lbs (149.5 kg)

5-Pump Unit

Height 25.8" (65.5 cm)
Width 41.6" (105.6 cm)
Depth 26.5" (67.3 cm)
Weight 380 lbs (172.1 kg)

Pump / Roller

Height 14" (35.6 cm)
Width 8.2" (20.8 cm)
Depth 19.7" (50 cm)
Weight 50 lbs (22.6 kg)

Electrical Power Performance

Leakage Current: <100 microamperes for 115 V and 100 V bases (fully loaded); <200 microamperes for 220-240 V bases (fully loaded). The maximum leakage current for the base without pumps is 45 microamperes for all input voltages

Ground resistance: 0.1 ohms maximum for all bases

Emergency power: 8000 system battery (two 12 volt, sealed gel cell batteries) will power the arterial pump (operating in continuous mode), the monitors, occluder and lamp for 40 minutes; when the arterial pump is operated in pulsatile mode or the cardioplegia pump is also operating on battery power, the battery time available will diminish to 25 minutes

The base is tested for high potential: 1200V~ for 100-115 VAC units; 1500V~ for 220-240 VAC units