



The Sarns TCM II is a computer controlled heating and cooling system for use during cardiopulmonary bypass. Compared to devices using refrigerated cold water, the TCM II achieves faster, more reliable cooling through the use of melting ice, which maintains a stable, cold temperature as it conducts heat away. The TCM II's heating system reflects the current standard of technology. Its powerful heaters and high-efficiency mixing manifold allow you to bring up temperatures quickly. Control is at your fingertips, using either the main display or the optional remote module. A simplified display panel gives you accurate digital temperature data to protect your patients. On either panel you can select temperatures ranging from 0 - 42°C to bring your patients rapidly and precisely to the temperature needed. For protection of pediatric patients, a maximum water-to-venous blood temperature gradient can be set to operate during rewarming.

## Features

- Digital Heater/Cooler
- Maintains exact temperatures with sensitive, microprocessor-driven controls
- Minimizes patient rewarming time with powerful heaters and high-efficiency mixing manifold
- Reduces patient cooling time by melting ice
- Sarns optional remote control and display module for temperature management at your fingertips while the main unit is situated in a convenient, remote location
- Temperature displays in digital readouts for up to nine temperature probes; readouts for up to 9 temperature probes by using 3 temperature modules; alarm can be set for 3 probes (one probe per module) located at crucial temperature sites
- Precise temperature controls maintained by a microprocessor which allows oxygenator water temperature selection from 0 - 42°C in one-degree increments
- Independent cardioplegia control offers three pump speeds for variable cooling rates and a separate reservoir accommodates drop-in heat exchangers
- Pressure-regulated blanket ports with water-supply maintain the same temperature as water going to the oxygenator heat exchanger



# Specifications

## Dimensions

Main Unit:

Height: 34.4" (87,4cm)

Width: 20.0" (50,8cm)

Depth: 31.5" (80,0cm)

Weight: 282 lbs (127,9 kg) with the tanks empty; 356 lbs (161,5 kg) with the tanks full

## Large Tank Dimensions

Length: 18.5" (47,0 cm)

Width: 8.7" (22,1 cm)

Depth: 21.5" (54,6 cm)

Water Capacity: 9 gal (34 L)

Crushed Ice Capacity: 40 lbs (18,1 kg)

## Small Tank Dimensions

Length: 9.5" (24,1 cm)

Width: 5.5" (14,0 cm)

Depth: 9.3" (23,6 cm)

Water Capacity: 1.2 gal (4,5 L)

Crushed Ice Capacity: 7.5 lbs (3,4 kg)

## Water Outlet Temperature

Oxygenator heat exchanger and blanket: 0 - 42°C

Cardioplegia: Ice water only

Heaters: 2 each – 1000 watt, 220V units

## Electrical

Voltage: 210/250VAC (220/240V nominal)

Frequency: 50 Hz

Amperage: 12 A

Current Leakage: 500 A maximum

Ground Resistance: 0.1 Ohm maximum

Recently Viewed

## High Frequency Leakage

Bipolar: Less than 60 mArms

Monopolar: Less than 150 mArms

## Input Power Requirements

110-120Vac:

Operating Range: 85-140Vac

Max Current Cut: 8A

Max Current Coag: 4.2A

220-240Vac:

Operating Range: 170-280Vac

Max Current Cut: 4A

Max Current Coag: 2.1A