

# Sarns™ TCM II Cooling and Heating System

A space-saving, multi-function patient cooling/heating system.



Independent ice maker

Precise temperature control

Oxygenator and cardioplegia water supply

Optional remote control and display module

Sarns™ TCM II

Frequency

<u>4415</u> <u>4416</u>

Voltage 108/122V

(115V nominal)

60 Hz

50Hz

16 amps Amperage

12 amps

Current leakage 100 microamps

maximum for

115V

500 microamps maximum for 220V

210/250V (220/240V nominal)

Ground

Width

Depth

Max. 0.1 Ohm

resistance

Max. 0.1 Ohm

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	Main Unit		
Height	34.4"	(87.4 cm)	
Width	20.0"	(50.8 cm)	
Depth	31.5"	(80.0 cm)	

282 lbs (127.9 kg) with tanks empty Weight 356 lbs (161.5 kg) with tanks full

Large Tank Small Tank Length 18.5" (47.0 cm) 9.5" (24.1 cm) 8.7 (22.1 cm) 5.5" (14.0 cm) 21.5" (54.6 cm) 9.3" (23.6 cm)

Capacity: Water 9.0 gal (34 L) 1.2 gal (4.5 L) Capacity: Crushed ice 40.0 lbs (18.1 kg) 7.5 lbs (3.4 kg)



Temperature Display Unit Temperature Probe Modules

Length8.75" (22.2 cm)9.0" (22.9 cm)Width5.5" (14.0 cm)5.75" (14.6 cm)Depth2.5" (6.4 cm)2.5" (6.4 cm)

## Water Outlet Temperature

Arterial heat exchange 0 - 42° C

and blanket

Cardioplegia Ice water only

Heaters 1 each - 700 watt, 850 watt, 115V units

2 each - 1000 watt, 220V units

### Maximum Flow Performance (1/8 hp pump)

Arterial heat exchanger\* 5.5 gal/min (20.8 L/min) at zero head outlet port 13.5 psi (698 mmHg) maximum pressure

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Blanket supply outlet 0.8 gal/min (3.0 L/min) at zero head port\* 11.8 psi (610 mmHg) maximum pressure

Cardioplegia water 2.1 gal/min (7.9 L/min)

supply port 7.5 psi (388 mmHg) maximum pressure

### Ice Supply

If the large tank is filled to the maximum level with 25° C water, the ice maker can provide a maximum of 50.0 lbs (22.7 kg) in 8 hours.

If the large tank is filled to the maximum level with  $3^{\circ}$  C water, the ice maker can provide a maximum of 33.5 lbs (15.1 kg) in 3 hours.

Temperature Probe Module Operating Range 0 - 50°C

Remote Temperature Sensing and Display Accuracy ±0.3°C

# Venous Differential Mode

6°C gradient = rewarm water temperature is held to a maximum of 6

76°C more than the incoming venous blood temperature.

 $10^{\circ}\text{C}$  gradient = rewarm water temperature is held to a maximum of  $10^{\circ}\text{C}$  more than the incoming venous blood temperature.

# Catalog NumberDescriptionUnits/Case4415TCM II Heating/Cooling System 115V, with cardioplegia supply14416TCM II Heating/Cooling System 220/240V, with cardioplegia supply115746Remote control module with temperature displays115745Additional temperature probe module1

<sup>\*</sup>Note: performance will be different with both a heat exchanger and a blanket being supplied at the same time.