

UV Treo™

Advanced Temperature Management System

Dual channel heater-cooler with
on-board sanitizing ultraviolet light



UV Treo Temperature Management System

Advanced ultraviolet sanitizing, next-generation performance

The UV Treo™ Advanced Temperature Management System provides reliable heating and cooling solutions so clinicians can focus on the best possible patient outcomes. The UV Treo System's intelligent design prevents potentially harmful contaminated water from aerosolizing in the operating room. This is accomplished through sealed air flow channels which are isolated from the water source. The on-board ultraviolet (UV) light and validated cleaning process for sanitization provides six log (99.9999%) reduction of waterborne bacteria.^{1,2}



Safety Specifications

- On-board UV light for sanitization
- Water and exhaust containment prevent aerosolization and cross contamination
- Engineered for use with sterile water or water that has been passed through a $\leq 0.22 \mu$ filter
- Splash seal prevents overflow and hinders bacteria introduction into the cooling air stream
- Defibrillation proof

Performance Specifications

- Two independent channels with operating temperatures from $1.5 \text{ }^\circ\text{C} - 41 \text{ }^\circ\text{C}$, $\pm 1.0 \text{ }^\circ\text{C}$
- Quiet operation — $<57 \text{ dB}$ while compressor and pumps are running
- Up to three external devices can be used simultaneously; oxygenator, blanket and cardioplegia heat exchangers

Ease of Use

- Rotating color touch screen interface and optional remote control
- Simple, intuitive graphic user interface
- Priming feature for deairing of water lines
- Power drain technology for swift and easy water change (no gravity differential needed)
- Gradient mode feature is physiologically optimized for increased patient safety

¹ 6 log reduction: *Pseudomonas Aeruginosa*
4 log reduction: *M. Chimera*

² Data on file at Gentherm.

Validated cleaning process and integrated UV sanitization provide a six log reduction in waterborne bacteria with no aerosolization³

Validated Cleaning Protocol³

- UV light sanitization — once per week
- Change water — once per month
- Chemical clean — once per quarter

Flexible Operation

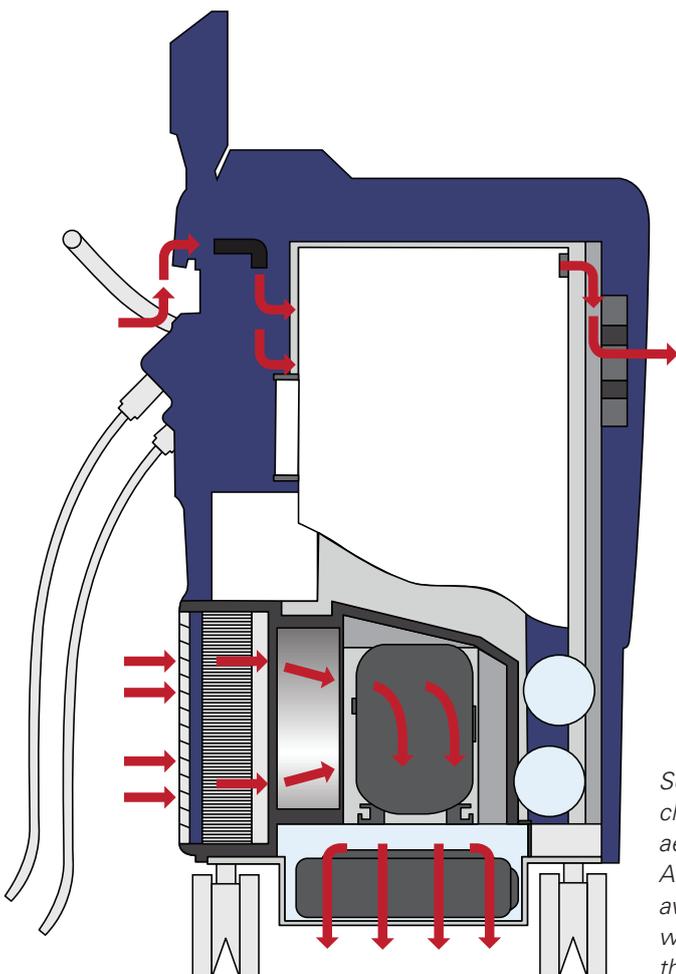
- Color touch screen interface — rotates +/- 157°
- Optional remote control identical to on-board touch screen



User activated UV sanitization – start and walk away



Fast, efficient ice block generation



Sealed airflow channels prevent aerosolization. Air flow is directed away from the patient when used inside the operating room.



Self-sealing quick connect fittings prevent leaks

³ Data on file at Gentherm.

System Performance

Outlet water temperature setpoint control range	1.5 °C – 41 °C
Outlet water temperature setpoint resolution	0.1 °C
Outlet water temperature setpoint control accuracy	+/- 1.0 °C
Outlet water temperature display range	0 °C – 50.0 °C
Outlet water temperature setpoint display resolution	0.1 °C
Outlet water flow maximum (No Load)	P 11.3 L/min. C 10.0 L/min. B 1.7 L/min.*
Maximum outlet pressure	89.000 Pa

*P= Patient, C= Cardioplegia, B= Blanket

Product Specifications

Height	1.06 m
Width	0.50 m
Depth	0.53 m
Weight (tank empty)	166 kg
Weight (tank full)	206 kg
Water Capacity	40 liters
System Power	230V +/-10% 50 Hz
Heating Power	4800W total 2400 W/channel

Ordering Information

Order number	Description	Unit/Cases
86072	UV Treo™ Advanced Temperature Management System	1
Accessories/Parts		
50103	Gentherm PlastiPad Model 195N Narrow Adult/OR Table Blanket	5
91264	Gentherm Model 285-12 12' Connecting Hose for 50103 Blanket	1
93052	Remote Touch Screen Assembly (includes cable and clamp)	1

Manufactured by:



Gentherm Medical, LLC.
12011 Mosteller Road
Cincinnati, OH 45241
www.gentherm.com

Distributed by:



Terumo Corporation
+81 3 3374 8111
Terumo Cardiovascular Group
+1 734 663 4145
Terumo Europe N.V.
+32 16 38 12 11

EMEA SALES OFFICES

**Terumo Europe N.V.
Africa Business Division**
+32 16 38 13 08
**Terumo Europe N.V.
Benelux Sales Division**
Belgium:
0800 14468
The Netherlands:
0800 0231938
**Terumo Europe N.V.
Emerging Market Division**
+32 16 38 12 11
Terumo Deutschland GmbH
+49 6196 80 230

**Terumo Deutschland GmbH
Switzerland**
+41 56 419 10 10
Terumo Europe España SL
+34 902 10 12 98
Terumo France S.A.S.
+33 130 96 13 00
Terumo Italia S.r.l.
+39 06 94 80 28 00
Terumo Russia LLC
+7 495 988 4740
Terumo Sweden AB
+46 3174 85 880
Terumo Sweden AB Denmark
+45 7020 93 80

Terumo Middle East FZE
+971 4 292 0200
Terumo UK Ltd
+44 1276 480 440
**Terumo BCT Tıbbi Cihazlar Dağıtım
ve Hizmetleri A.Ş.**
+90 216 645 92 00

Contacts subject to change,
please consult our website.
www.terumo-europe.com

