BELMONT MEDICAL TECHNOLOGIES

Saving Lives. Together.

ALLON®

Safe, Precise, and Effective[1,2]

PATIENT TEMPERATURE MANAGEMENT



CONTROL AND MAINTAIN NORMOTHERMIA THROUGHOUT THE ENTIRE PERIOPERATIVE CONTINUUM

PRE-OPERATIVE

Initiate patient warming before the procedure

INTRA-OPERATIVE

Manage patient temperature during the procedure

POST-OPERATIVE

Maintain patient body temperature in the recovery room

ALLON®

ADVANCED TEMPERATURE MANAGEMENT

Allon is a non-invasive advanced temperature management system that controls and maintains patient body temperature throughout all stages of the perioperative continuum—without disrupting laminar airflow or introducing additional surgical site infection risk.



The system consists of an algorithm driven heat pump that supplies water through a closed-loop system to the ThermoWrap® disposable patient garment.

THERMOWRAP®

ThermoWrap is a single use, one-piece flexible garment that is used in conjunction with the Allon control unit. ThermoWrap's flexible configurations facilitate the wrapping of individual parts of the body to maximize surface coverage without interfering with surgical sites. The CardiacWrap (shown next page, upper right) offers full access to the torso, making it a popular choice for cardiac procedures.

PREDICTABLE WARMING – ALL OF THE TIME

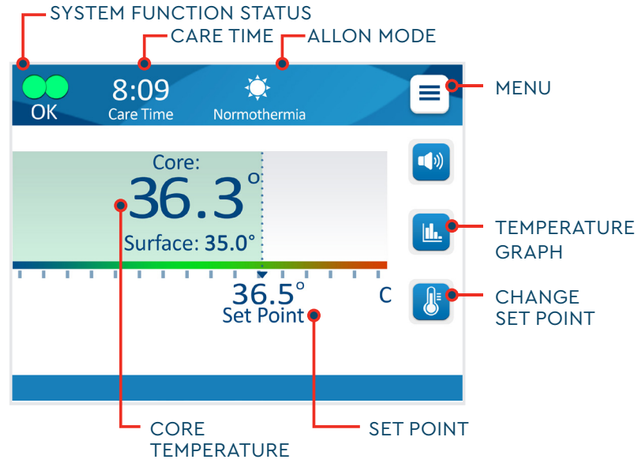
Not every patient or procedure is at the same risk for a surgical site infection (SSI). Longer surgical procedures, transplant, orthopedic and certain cardiac surgeries all have significantly higher risks for SSIs compared to other shorter, less complex surgeries.[5]

When forced air warming devices are used, the laminar airflow is impacted, and doubt remains whether the ultra clean air ventilation systems are able to properly restore air flow. As a result, bacteria can be blown into the surgical site, potentially causing an infection.

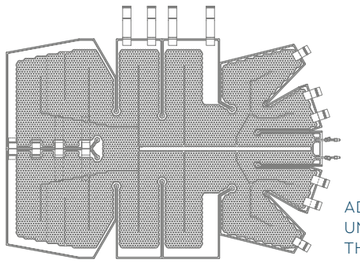
With a reputation for predictable warming, Allon has been proven to maintain normothermia even in complex cases. A conductive warming device, Allon does not disturb laminar air flow, nor increase the odds of a surgical site infection which is crucial – especially for high risk patients and populations.

YOUR PATIENT'S FAST-TRACK TO THE PACU[3, 4]

- Precise and automatic temperature control using proprietary algorithms
- Full-color, touch-screen display
- Simple, easy to use interface with intuitive controls
- Real-time monitoring and graphical display of temperature measurements
- Quick and easy set up
- Track and externally access procedure data using the CliniLogger™







ADULT/ UNIVERSAL THERMOWRAP

DESIGNED WITH YOUR PATIENT IN MIND

- One-piece body shaped garment with various sizes and configurations
- ThermoWrap provides up to 80% surface area coverage*
- Soft mesh that is easy to wrap and secure
- Clutter-free with only one pair of connecting tubes

Universal ThermoWrap only.

ThermoWrap is available in a range of sizes and designs to accommodate your surgical needs and patient's anatomy:

Wrap Type	Part Number	Quantity Per Box	Patient Height/ Weight	Wrap Length/ Width (m)
Cardiac	512–03363	12	165–182 cm Fits all adults	1.348 / 1.319
Adult/ Universal	512–03166	12	168–180 cm (over 66")	1.904 / 1.321
	512–03160	12	152–168 cm (60–66")	1.934 / 1.295
	512–03153	12	135–152 cm (53–60")	1.744 / 1.212
Pediatric	512–03148	12	122–135 cm (48–53")	1.582 / 1.193
	512–03141	12	104–122 cm (41–48")	1.398 / 1.068
	512–03136	12	91–104 cm (36–41")	1.225 / 0.841
	512–03131	12	79–91 cm (31–36")	1.118 / 0.739
Infant	524–03125	24	7–11 kg (15.5–24.3 lb)	0.983 / 0.629
	524–03121	24	4–7 kg (8.8–15.5 lb)	0.698 / 0.604
	524–03118	24	2.5 to 4 kg (5.5–8.8 lb)	0.660 / 0.465

1 Kjellman et. al.: Comparing ambient, air-convection, and fluid-convection heating techniques in treating hypothermic burn patients, a clinical RCT. Annals of Surgical Innovation and Research 2011 5:4.
2 Motta et al.: Effectiveness of a Circulating-Water Warming Garment in Rewarming After Pediatric Cardiac Surgery Using Hypothermic Cardiopulmonary Bypass. J Cardiothoracic and Vascular Anesthesia 2004. 18:2, 148–151.
3 Rohrer B. , Penick E. , Zahedi F. , and et al. , Comparison of forced-air and water circulating warming for prevention of hypothermia during transcatheter aortic valve replacement. PLoS one, 2017; 12(6): e0178600.
4 Nesher, N., Uretzky, G., Insler, S., Nataf, P., Frolkis, I., Pineau, E., ... Weinbroum, A. A. (2005). Thermo-wrap technology preserves normothermia better than routine thermal care in patients undergoing off-pump coronary artery bypass and is associated with lower immune response and lesser myocardial damage. The Journal of Thoracic and Cardiovascular Surgery, 129(6), 1371–1378. doi:10.1016/j.jtcvs.2004.08.021
5 Mu, Yi et al. Improving Risk-Adjusted Measures of Surgical Site Infection for the National Healthcare Safety Network. Infection Control and Hospital Epidemiology, Vol. 32, No. 10 (October 2011), pp. 970–986.

ORDERING INFORMATION

CONTROL UNIT

Allon® 2001 (115V)	Part #100-00001
Allon® 2001 (230V)	Part #100-00002

ACCESSORY KIT

(Select one only for each Allon unit)

ADULT/INFANT KIT FOR DISPOSABLE SENSORS — **Part #200-00410**

The Kit contains:

• Core Adapter Cable	Part #014-00028
• Surface Adapter Cable	Part #014-00324
• Connecting Water Tubes (2 by 2 way)	Part #200-00109
• Allon Disinfection Kit	Part #405-00024

REUSABLE KITS:
(NOT AVAILABLE IN THE UNITED STATES AND SELECT MARKETS)

ADULT KIT FOR REUSABLE SENSORS* — **Part #200-00400**

The Kit contains:

• Reusable Adult Core Temperature Probe	Part #014-00020
• Reusable Surface Temperature Probe	Part #014-00021
• Filter unit	Part #200-R0130
• Connecting Water Tubes (2 by 2 way)	Part #200-00109
• Allon Disinfection Kit	Part #405-00024

INFANT KIT FOR REUSABLE SENSORS* — **Part #200-00420**

The Kit contains:

• Reusable Infant Core Temperature Probe	Part #014-00005
• Reusable Surface Temperature Probe	Part #014-00021
• Filter unit	Part #200-R0130
• Connecting Water Tubes (2 by 2 way)	Part #200-00109
• Allon Disinfection Kit	Part #405-00024

ACCESSORIES

Disposable Core Temperature Probe, 9FR, Smiths Medical	Part #014-00035
Disposable Core Temperature Probe, 7FR, Metko	Part #014-00036
Disposable Core Temperature Probe, 9 FR, TE (available in select markets only)	Part #014-00038
Disposable Core Temperature Probe, 9FR, DeRoyal	Part #014-00220
Disposable Surface Temperature Probe	Part #014-00323
CliniLogger™	Part #017-00250
Temperature Splitter Kit	Part #200-01200

The Temperature Splitter Kit contains:

• One (1) Temperature Splitter	Part #017-01200
• Two (2) Temp-Out Adapter Cables	Part #014-00012

*Reusable temperature probes are not for sale in the United States.

HARDWARE SPECIFICATIONS

HEAT EXCHANGERS
Peltier Technology (TECs)

WATER TANK
Sterile or 0.22 micron filtered tap water
Tank Capacity: 6 liters (1.6 gal.)

WATER TEMPERATURE
Water Temperature Accuracy: ± 0.3°C (0.4°F)
Water Temperature (outflow): 13–40.8°C (55.4–105.4°F)

PUMP
Water Circulating Pump
Pump Rate: 0.2–1.25 L/min
Protected by 263 micron filter

PATIENT TEMPERATURE CHANNELS
2 Channels: Core, Surface
Sensor Temperature Range: 15°C to 44°C (59°F to 111.2°F)
Sensor Temperature Accuracy: ± 0.3°C (0.4°F)

TEMPERATURE AND PRESSURE SENSORS
System Sensors:
- 3 Internal Temperature Sensors: Water in, Water out, Thermostat
- 2 Pressure sensors

Safety Measures:
- Over pressure protection and alarm
- High water temperature protection and alarm

PHYSICAL DIMENSIONS
Mobile unit with 4 wheels and 2 brakes
260 mm W x 625 mm D x 940 mm H /
(10.23"W x 24.6"D x 37"H)

NET WEIGHT
36 kg / 79 lb

INPUT POWER
115VAC 5.7 A 50/60 HZ
230VAC 2.9 A 50/60 HZ

THERMOWRAP
Duration of use: up to 28 hours

LCD DISPLAY
Size: 5.7" color display
Resolution: 320×240

For more information about the products we offer, contact us at sales@belmontmedtech.com.

PATIENT WARMING | TEMPERATURE MANAGEMENT | FLUID MANAGEMENT

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