

Polar Skin™

Non-Invasive Human Temperature Management Systems

Polar Skin™

(n.) Exclusive family of patent-pending, non-invasive portable treatment systems responsible for revolutionizing human temperature management in the 21st Century.

- ♦ Scientifically proven to decrease core temperature by .09°F (.05°C) per minute in 102°F temperatures:
 - ♦ Outperforms cold water torso immersion
 - ♦ Promotes conductive, convective, and evaporative cooling.
- ♦ Material efficacy tested and proven by the University of Tennessee:
 - ♦ Unique fiber construction allows for air permeability of 518 CF/M vs. 150 CF/M in 130 thread count bed sheets
 - ♦ Liquid absorptive capacity of 350% greater than basis weight
 - ♦ 15% increase in moisture vapor transmission rate and >24% increase in thermal transmittance (vs. 130 thread count bed sheets)
- ♦ Adheres to National Athletic Trainers' Association and U.S. Army protocols for heat-related illness treatment
- ♦ Targets essential high blood flow regions in the groin and underarms
- ♦ Saturated in ArcticAqua® to allow for preparation as low as -5°F without loss of pliability
- ♦ Comprehensive Cooling System maintains temperatures of ≤32°F for 17.5 hours in Polar Skin™ branded cooler with ice (when prepared to 0°F)
- ♦ Completely portable with no possibility of leaking or exposure to environmental contamination



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Polar Skin™ Mini-Mesh

(n.) A unique temperature-reactive textile that senses and reacts to an elevated body temperature to promote conductive, convective, and evaporative cooling.

ArcticAqua®

(n.) A proprietary solution that prevents rigidity at temperatures below 0°F while providing the requisite moisture to promote evaporative, conductive, and convective cooling.

Polar Skin

Polar Skin™ Comprehensive Cooling System

Complete and portable non-invasive modality for the quick and effective reduction of core temperature in any environment. System consists of two Polar Skin™ Ice Sheets (Triple Packs) and one Polar Skin™ C2E Ice Pack Bundle.

- Gel packs sheathed in Mini-Mesh sleeves target high blood flow regions while allowing for air and water vapor transfer
- Mini-Mesh sheets promote immediate skin/core temperature gradient that leads to protracted core temperature reduction
- Maintenance free; impervious to environmental or biological contamination
- Heavy-duty MIL-PRF-131K, military spec vapor barrier packaging with easy to open tear notches
- Five year expiration/warranty



Item Name	Item #	Weight	Package Dimensions
Comprehensive Cooling System	PVL01-PSCCS	9 lbs	10.5"x9.5"x3"

Polar Skin™ Complete Care Pack (and Backpack)

Highly insulated portable option that allows you to carry one (Single Patient) or two (Double Patient) Polar Skin™ Comprehensive Cooling Systems plus ice/water. Packs feature coolers and one or two Comprehensive Cooling Systems.

- 3/4 inch thick high density foam insulation; maintains ice for 24+ hours in 120°F temperatures
- Food grade vinyl liner that is leak/sweat proof
- Padded shoulder strap(s)
- Lifetime warranty on cooler



Item Name	Item #	Weight	Package Dimensions
Complete Care Pack (Single Patient)	PVL01-PSCCPSP	10.2 lbs	15"x11.25"x6"
Complete Care Pack (Double Patient)	PVL01-PSCCPDP	20.8 lbs	18.5"x13"x9.5"
Complete Care Backpack (Single Patient)	PVL01-PSCCBSP	12.8 lbs	19.5"x15"x7.5"
Complete Care Backpack (Double Patient)	PVL01-PSCCBDP	21.8 lbs	19.5"x15"x7.5"

Polar Skin™ Ice Sheets

Constructed from Polar Skin™ Mini-Mesh, Polar Skin™ Ice Sheets are a smart textile so they sense and react to an elevated body temperature to promote evaporative, conductive, and convective cooling. Polar Skin™ Ice Sheets come saturated in ArcticAqua® which allows the sheets to be chilled to -5°F without becoming "frozen." Excellent thermal resistance and moisture vapor transmission rate.



- Adheres to National Athletic Trainers' Association and U.S. Army protocols for heat illness treatment
- Proven effective by the University of Tennessee Nonwovens Research Lab and PhysioZing
- Allows for full access to the body while cooling and for cooling during transport to a medical treatment facility
- Absolutely maintenance free; rugged MILSPEC vapor barrier packaging



Item Name	Item #	Weight	Package Dimensions
Ice Sheets (Single Pack)	PVL01-PSISSP	0.6 lbs	4.5"x7.75"x.5"
Ice Sheets (Single Pack-Large)	PVL01-PSISSPL	1.6 lbs	7.5"x4.75"x1.5"
Ice Sheets (Double Pack)	PVL01-PSISDP	1.4 lbs	9.5"x8"x.5"
Ice Sheets (Triple Pack)	PVL01-PSISTP	2.2 lbs	12.5"x7.5"x.5"

Polar Skin™ C2E Ice Pack Bundle

Four specially-sized Comfort Gel Packs encased in Polar Skin™ Mini-Mesh sleeves saturated with ArcticAqua®. Unique to C2E Ice Packs, Polar Skin™ Mini-Mesh sleeves form an air-permeable layer that allows for the movement of air and water vapor in support of convective and evaporative cooling.



- Facilitates Conductive, Convective, and Evaporative (C2E) cooling of high blood flow (large blood vessel) regions of the body.



Item Name	Item #	Weight	Package Dimensions
C2E Ice Pack Bundle	PVL01-PSC2EIP	4.4 lbs	9.5"x8"x1.25"

Polar Skin™ Cooling Collar

Constructed of Polar Skin Mini-Mesh saturated in ArcticAqua and two specially-sized gel packs encased in integrated pouches, the Polar Skin™ Cooling Collar is deliberately designed to align with the carotid artery.



Item Name	Item #	Weight	Package Dimensions
Cooling Collar	PVL01-PSCC	2.5 lbs	8.5"x5.25"x2"