

# PolarSkin™ Cooling Systems

Learn more about PolarSkin™ and other Products with a Mission® at [www.NARescue.com](http://www.NARescue.com)



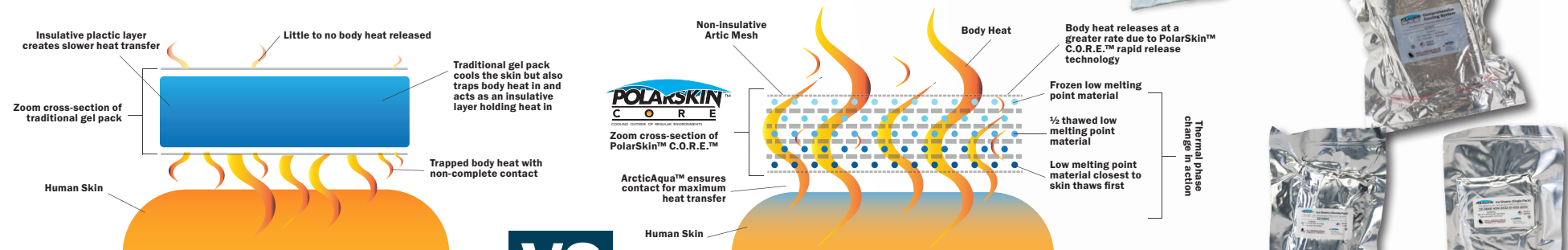
INTRODUCING THE LATEST IN COOLING TECHNOLOGY FOR EFFECTIVE HUMAN THERMO-REGULATION

THE LATEST COOLING TECHNOLOGY TO **BEAT the HEAT**

- Facilitates conductive, convective, and evaporative cooling
- Unique fiber construction allows for liquid absorptive capacity 350% greater than basis weight
- Protracted direct cooling of high blood flow regions
- Adheres to current National Athletic Trainers' Association and U.S. Art
- Soaked in ArcticAqua™ for faster and longer cooling without drying out



**PolarSkin Core includes a gel pack within the Arctic Mesh fabric that has been soaked in ArcticAqua to assist with cooling.**



**Traditional Gel Packs**

- Plastic bag filled and sealed with a polymer gel
- Barrier bags are impermeable to vapor and liquid penetration
- Plastic barrier is non-conductive
- Utilizes conduction for thermal Exchange
- Localized heat exchange
- No materials phase change



**PolarSkin™ C.O.R.E.™**

- Vapor and liquid permeable substrate
- Cooling fluids are impregnated within the substrate
- Non-woven conductive barrier layer
- Promotes evaporation, convection, and conduction cooling methods for maximum thermal exchange
- Distributed heat exchange
- Staged phase change materials act as a thermal super capacitor



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# Comprehensive Cooling System™

The PolarSkin™ Comprehensive Cooling System is a highly-effective portable cooling system for the treatment of heat-related illnesses. Consisting of six (6) PolarSkin™ Ice Sheets and four (4) PolarSkin™ C.O.R.E™ Packs, the PolarSkin™ Comprehensive Cooling System is scientifically proven to promote rapid core temperature reduction.



## COMPREHENSIVE COOLING SYSTEM™

ITEM #	NSN#
ZZ-0674	----

### DIMENSIONS

- L 16 in. x W 12.5 in. x 3.25 in.
- Weight: 9 lbs

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# PolarSkin Ice Sheets™

- PolarSkin Mini-Mesh™ saturated in ArcticAqua™ promoting evaporative cooling to elevated body temperatures.
- Excellent thermal transmittance & moisture vapor transmission rate.
- Allows for full access to the body while cooling.
- Packaged in a rugged, durable foil pouch that prevents air or moisture transfer.



## POLARSKIN ICE SHEET™ (36 IN X 30 IN.)

ITEM #	UNIT	NSN#
ZZ-0668	Single	6532-01-653-6054
ZZ-0669	Double	----
ZZ-0755	Triple	----

### DIMENSIONS

Device Dimensions:

- W 36 in. x H 60 in.

Packaged Dimensions Single:

- L 4.5 in. x W 7.75 in. x H 0.5 in.
- Weight: 0.6 lbs

Packaged Dimensions Double:

- L 9.5 in. x W 8 in. x H 0.5 in.
- Weight: 1.4 lbs

Packaged Dimensions Triple:

- L 12.5 in. x W 7.5 in. x H 0.5 in.
- Weight: 2.2 lbs

## FEATURES/SPECIFICATIONS

- Scientifically proven to reduce core temperature by .09°F/minute in 100°F heat when used according to protocol
- Excellent thermal transmittance and moisture vapor transmission rate
- Allows for full access to the body while cooling

- Adheres to current National Athletic Trainers' Association and U.S. Army protocols for heat illness treatment
- Absolutely portable; when prepared to 0°C (32°F) and stored in a PolarSkin Cooler with ice, the system maintains an internal temperature of ≤32°F for 17.5 hours in >85°F ambient temperatures

# PolarSkin C2E Ice Pack Bundle

The PolarSkin™ C2E Ice Pack Bundle consists of four (4) specially-sized C.O.R.E™ Packs encased in PolarSkin™ Mini-Mesh sleeves saturated with ArcticAqua™. Unique to C2E C.O.R.E™ Packs, PolarSkin Mini-Mesh sleeves form an air-permeable layer that allows for the movement of air and water vapor necessary for convective and evaporative cooling. C2E C.O.R.E™ Packs are intended for use in the high blood flow regions of the groin and underarms.

## FEATURES/SPECIFICATIONS

- Facilitates conductive, convective, and evaporative cooling
- Four specially-sized Comfort Gel Packs providing protracted direct cooling of high blood flow (large artery) regions of the body (underarms and groin)

- Maintenance free; impervious to environmental and biological contamination
- Allows for full access to the body while cooling
- Adheres to current National Athletic Trainers' Association and U.S. Army protocols for heat illness treatment

## C2E ICE PACK™ BUNDLE

ITEM #	NSN#
ZZ-0675	----

### DIMENSIONS

Gel Pack Dimensions:

- W 6 in. x L 10 in.

Double Packaged:

- L 8 in. x W 9.5 in. x H 1.25 in.
- Weight: 4.6 lbs



## POLARSKIN ICE SHEET™ (36 IN X 60 IN.) LARGE

ITEM #	UNIT	NSN#
ZZ-0758	Single	----

### DIMENSIONS

Device Dimensions:

- W 36 in. x H 60 in.

Packaged Dimensions:

- L 8.5 in. x W 5.5 in. x H 1.5 in.
- Weight: 1.49 lbs

