

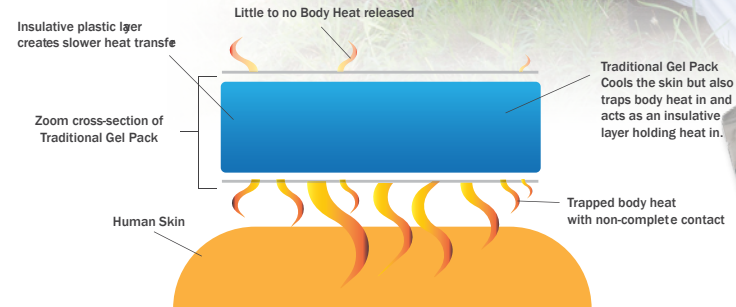
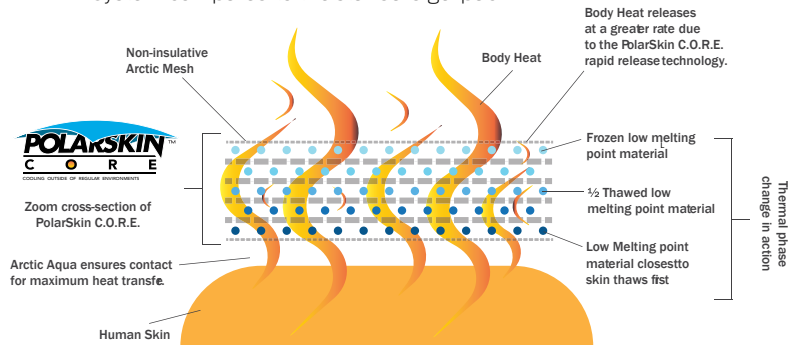
# POLAR SKIN™ Cooling Systems

REV080924

**Introducing the latest in Cooling Technology for effective Human Thermo-Regulation**

**Adheres to current U.S. Army and National Athletic Trainers' Association protocols for heat illness treatment**

- **Polar Skin Mini-Mesh™**, a unique smart textile with a hydrofunctional polymer that allows for liquid absorptive capacity 350% greater than basis weight
- **ArcticAqua™**, a proprietary solution that prevents rigidity at temperatures well below 0°C (32°F) while providing the requisite moisture to **support evaporative, convective and conductive cooling** without drying out
- **C.O.R.E.™**
  - The improved four-layer flat design that includes the existing outer blanket layer plus two cooling pads and one inner pad that **provides maximum cooling retention**
  - The phased layer approach **allows for maximum evaporation**, convective and conductive heat removal from a hyperthermic patient
  - The C.O.R.E.™ technology **significantly improves the functionality and longevity** of the Comprehensive Cooling System compared to the standard gel pack



## 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

## 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



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## Polar Skin Ice Sheets™

The principle cooling component of Polar Skin™ cooling systems

- Polar Skin 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.

### Polar Skin Ice Sheets™ (36 in x 30 in.)

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

**Device Dimensions:**  
W 36 in. x H 30 in.

**Packaged Dimensions:**  
**Single:** L 4.5 in. x W 7.75 in. x H 0.5 in. **Wt:** 0.6 lb

**Double:** L 9.5 in. x W 8 in. x H 0.5 in. **Wt:** 1.4 lb

**Triple:** L 12.5 in. x W 7.5 in. x H 0.5 in. **Wt:** 2.2 lb

### Polar Skin Ice Sheet™ (36 in x 60 in.) Large

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

**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.

**Wt:** 1.49 lb



## Polar Skin Comprehensive Cooling System™

A complete and portable modality for the treatment of heat-related illnesses

- Consists of two (2) **Triple Pack Polar Skin™ Ice Sheets** and one (1) **Polar Skin™ C2E Ice Pack Bundle**.
- Protracted direct cooling of high blood flow regions.
- Scientifically proven to promote rapid core temperature reduction.

### Comprehensive Cooling System™

ITEM#	NSN#
ZZ-0674	----

**Packaged Dimensions:**  
L 16 in. x W 12.5 in. x 3.25 in.  
**Wt:** 9 lb



## Polar Skin C2E Ice Pack™ Bundle

- The Polar Skin™ C2E Ice Pack Bundle consists of four (4) specially-sized C.O.R.E.™ Packs encased in Polar Skin™ Mini-Mesh sleeves saturated with ArcticAqua™
- Unique to C2E C.O.R.E.™ Packs, Polar Skin 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.

### C2E Ice Pack™ Bundle

ITEM#	NSN#
ZZ-0675	----

**Gel Pack Dimensions:**  
W 6 in. x L 10 in.

**Packaged Dimensions:**  
L 8 in. x W 9.5 in. x H 1.25 in.  
**Wt:** 4.6 lb



## Specifications

- Scientifically proven to reduce core temperature by .09°F/minute in 100°F heat when used according to protocol
- Absolutely portable; when prepared to 0°C (32°F) and stored in a Polar Skin Cooler with ice, the system maintains an internal temperature of ≤32°F for 17.5 hours in >85°F ambient temperatures
- Excellent thermal transmittance and moisture vapor transmission rate
- Adheres to current National Athletic Trainers' Association and U.S. Army protocols for heat illness treatment
- Allows for full access to the body while cooling



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# POLAR SKIN™ Cooling Systems

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## Polar Skin Complete Care Pack

Portable, highly insulated option to carry the Polar Skin Comprehensive Cooling System™ into the field

COLOR	ITEM#	NSN#
Red	80-0451	----

**Packaged Dimensions:**  
L 14 in. x W 12 in. x H 7 in.  
**Wt:** 10.2 lb



- Contains of one (1) **Polar Skin Comprehensive Cooling System™** and one (1) heavy duty, leak- & sweat proof **Red Polar Skin™ Cooler** that keeps ice from melting for 24 hours in +100°F heat.
- Polar Skin Cooler is also available for separate purchase.

## Polar Skin Cooler

- Keeps ice for 24 hours in 100+°F heat.
- Food grade liner that is leak-proof and sweat-proof.
- 0.75 in. thick high density foam for insulation.
- Constructed of heavy duty materials with padded shoulder strap and a side pocket for dry items.
- Standard size accommodates (1) one **Polar Skin Comprehensive Cooling System™**
- Large size accommodates (2) two **Polar Skin Comprehensive Cooling Systems™**
- Lifetime warranty.



### ORDERING INFORMATION

COLOR	SIZE	ITEM#
Red	Standard	ZZ-0682
Black	Standard	ZZ-0759
Black	Large	ZZ-0756
Black	Backpack	ZZ-0794

### SPECIFICATIONS

Standard: L 14 in. x W 12 in. x H 7 in.  
Weight: 2 lb 3.2 oz  
Large: L 18.5 in. x W 13 in. x H 9.5 in.  
Weight: 2 lb 13 oz  
Backpack: L 19.5 in. x W 15 in. x D 7.5 in.  
Weight: 3 lb 13 oz

## Polar Skin Cooling Collar™

Reusable cooling system for the neck area to prevent heat illness and promote performance recovery

- Polar Skin Mini-Mesh™ sleeves saturated in ArcticAqua Sport™ with two gel packs designed to align with the carotid artery.
- Provides cold directly to the lateral and anterior portions of the neck.

### Polar Skin Cooling Collar™

ITEM#	NSN#
ZZ-0670	----

**Packaged Dimensions:**  
L 8.5 in. x W 5.25 in. x H 2 in. / **Wt:** 2.7 lb



## BEAT the Heat with Polar Skin

### Polar Skin Complete Line

UNIT	SIZE	COLOR	ITEM#	NSN#
Polar Skin Ice Sheet	Single Sheet	-	ZZ-0668	6532-01-653-6054
Polar Skin Ice Sheet	Double Sheet	-	ZZ-0669	----
Polar Skin Ice Sheet	Triple Sheet	-	ZZ-0755	----
Polar Skin Ice Sheet, Large	Large Sheet	-	ZZ-0758	----
Polar Skin Comprehensive Cooling	System	-	ZZ-0674	----
Polar Skin C2 Ice Pack Bundle	Bundle	-	ZZ-0675	----
Polar Skin Complete Care Pack	Complete Care	RED	80-0451	----
Polar Skin Cooler	Standard	RED	ZZ-0682	----
Polar Skin Cooler	Standard	BLK	ZZ-0759	----
Polar Skin Cooler	Large	BLK	ZZ-0756	----
Polar Skin Complete Care Backpack	Single	BLK	80-0543	----
Polar Skin Complete Care Backpack	Double	BLK	80-0544	----
Polar Skin Cooling Collar	Collar	-	ZZ-0670	----



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## Polar Skin Complete Care Backpack

*The Complete Care Backpack is a Comprehensive Polar Skin option designed to carry the Comprehensive Cooling System(s) into the field - with the ease and convenience of a Backpack style configuration.*

- Single Pack features Backpack Cooler and One (1) Comprehensive Cooling System for a portable, all-inclusive system capable of treating a single patient
- Double Pack features Backpack Cooler and Two (2) Comprehensive Cooling Systems for a portable, all-inclusive system capable of treating a two patients
- Scientifically proven to reduce core temperature by .09°F/minute in 100°F heat when used according to protocol
- The system maintains an internal temperature of ≤32°F for 17.5 hours in >85°F ambient temperatures when prepared to 0°F and stored in a Polar Skin Cooler with ice
- Adheres to current National Athletic Trainers' Association and U.S. Army protocols for heat illness treatment

### Polar Skin Complete Care Backpack

COLOR	SIZE	ITEM#	NSN#
BLK	Single	80-0543	-----
BLK	Double	80-0544	-----

#### Single Packaged Dimensions:

W 19.5 in. x L 15 in. x D 7.5 in.

Wt: 12.8 lb

#### Double Packaged Dimensions:

W 19.5 in. x L 15 in. x D 7.5 in.

Wt: 22 lb

### Single Patient Size Kit Contains:

1 x Polar Skin Backpack Cooler, Black

1 x Polar Skin Comprehensive Cooling System containing:

2 x Polar Skin Ice Sheets™ (Triple Pack)

1 x Polar Skin C2E Ice Pack™ Bundle

### Double Patient Size Kit Contains:

1 x Polar Skin Backpack Cooler, Black

2 x Polar Skin Comprehensive Cooling System each containing:

2 x Polar Skin Ice Sheets™ (Triple Pack)

1 x Polar Skin C2E Ice Pack™ Bundle



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