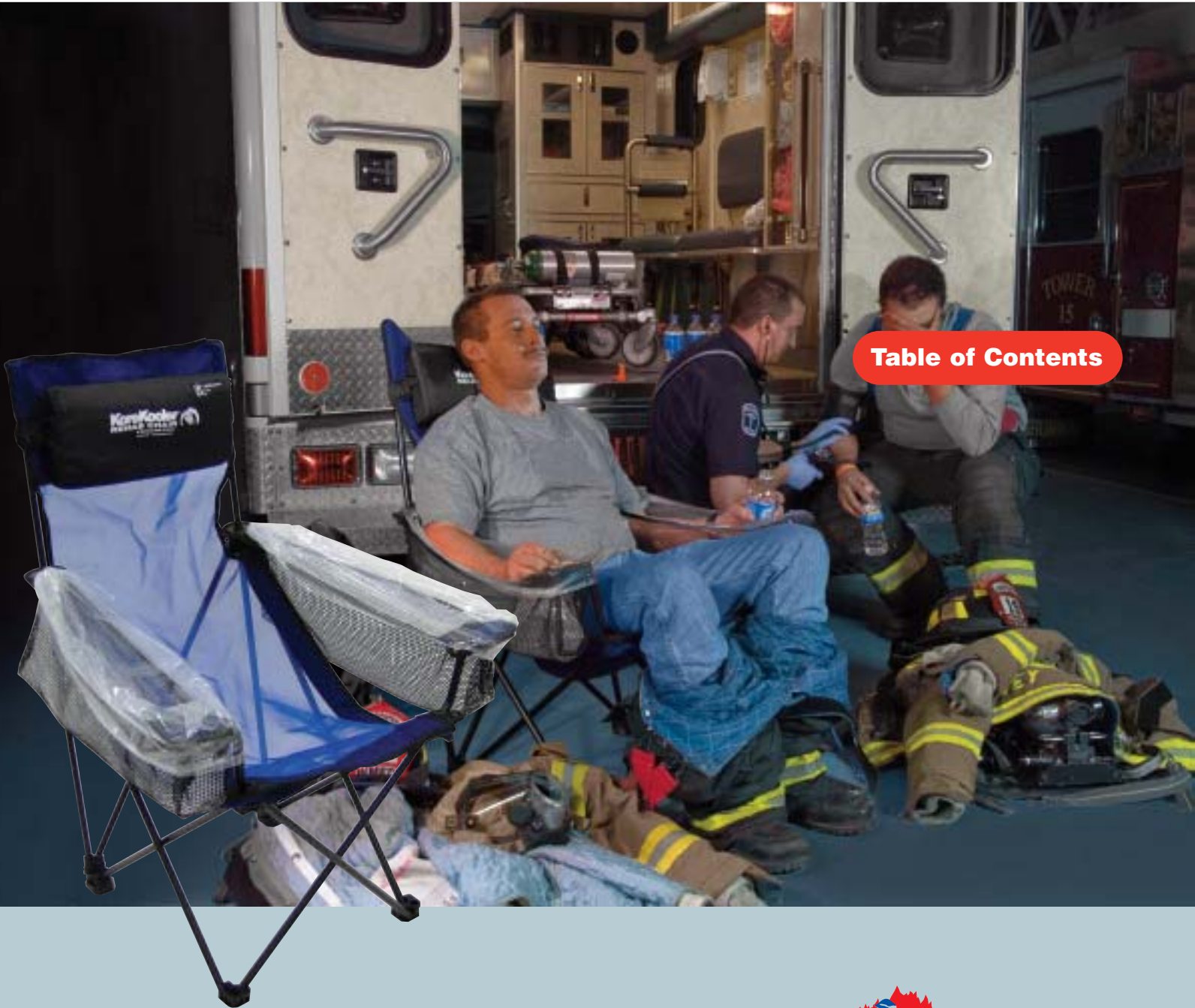


# Kore Kooler Rehab Chair

Revolutionary Core Temperature Rehabilitation Technology...Affordable, Portable and Effective

*Project HEROES®...the PPE of the Future is NOW AVAILABLE!* See the Honeywell First Responder Products Reference Guide.



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2009 Catalog

  
**Kore Kooler™**  
**REHAB CHAIR**  
A Morning Pride Product by Honeywell

## Compare Before You Buy!

Many times, departments specify brands because they are familiar with them and because a trusted dealer has that brand to offer. We understand this; but when it comes to field test wins, the number of innovative patents held, the number of departments converted and the number of research grants issued, none of our competitors comes close. And our lead continues to grow.

We urge you to “Compare Before You Buy.” Don’t just believe our competitors’ sales pitches. In fact, don’t believe ours! Make US put our products where our mouths are...make us PROVE our superiority by field testing our products.

## Catalogs

For a comprehensive list of all of our products and the unique safety, comfort, and technological advantages, please see our Honeywell First Responder Products catalogs, price lists and Reference Guide available in printed format, as well as on a single convenient CD in pdf format. They may also be downloaded from our website.

## Fire Department Presentations and Local and Regional Seminars

In some cases, just reading, understanding, and then comparing our products’ unique advantages is enough, while other products require a hands-on demonstration to truly appreciate their superiority. Along with your local dealers, we sponsor cost-free, hands-on demonstrations and regional seminars. When we demonstrate for you the comfort and quality of our products, and show you the features that make Honeywell First Responder Products the most protective in the industry, you’ll quickly realize that you shouldn’t continue to work without them. And,

we’ll show you how affordable the best really is. It isn’t necessary to accept less than the best, and we’ll be glad to show you how. But don’t take our word for it...let us supply you with the facts, case studies and references from other fire departments that refuse to buy less than the best. Contact us today for a presentation in your fire station or for information on seminars in your area.

## No- or Low-cost Field Test Program

For more than 85 years, Morning Pride has developed and delivered leading edge technology in firefighter Personal Protective Equipment (PPE). Now we are offering a revolutionary new portable, affordable and effective rehab product. No- and low-cost field test programs can be arranged by contacting our Customer Service Department.

## Factory Support and Service

With a team of more than a dozen product experts out in the field (most of whom are firefighters) and an inside marketing team of more than 20, Honeywell First Responder Products is here when you need us.

Whether you need a presentation at your department, quick lab work, or help with specifications, the Honeywell First Responder Products team is always ready to serve you. Our team of dedicated professionals offers you immediate access to answer your questions and provide you with any and all information at our disposal.

## Delivery and State-of-the-art Manufacturing

We are committed to maintaining inventory of our products. This allows the Honeywell First Responder Products team to fill most orders very quickly. We maintain a large stock of Kore Kooler Rehab Chairs so we can fill your orders quickly.

## Warranty

Morning Pride Kore Kooler Rehab Chairs are guaranteed to be free from defects in material and workmanship for the serviceable life of the product.





gallon) and being a fluid, adapts to every inch of the firefighter's hand and forearm for maximum heat transfer. Heat is transferred from the comparatively hotter (than the water) firefighter's arms/hands to the water in the troughs and the cooled blood flows back to the body core picking up additional core heat for subsequent removal. As such, this approach can be used to quickly rehabilitate the individual and minimize the potential for continued core temperature rise that commonly occurs after hard work in insulative clothing or PPE.

In contrast:

- Ice packs are rigid by design and, therefore, do not come into contact with a substantial expanse of skin surface. Their excessive low temperature causes capillaries to constrict which traps heat in the body's core.
- Cooling vests rely on circulating air or liquids through tubes and do not provide the same efficiency as the KORE KOOLER REHAB CHAIR since the heat transfer must occur through the fabric lining and plastic tube walls

of the cooling vest before reaching the circulating medium, and the area of body contact is far lower than fluid water provides.

- Air conditioning is effective but less direct (less thermal mass per area of contact) and must overcome the barriers of clothing.
- Mist fans deliver very little thermal cooling to the skin and become even less effective in the high humidity conditions so typical on the fireground.
- Cryogenics has the same limitations as cooling vests. Additionally, the thermal gradient is often so high that skin cooling can constrict the capillaries before effective blood stream cooling can occur.

Perhaps even more importantly, unlike the other active stress mitigation technologies (ice packs or vests, air conditioning, misting fans and even cryogenics), hand and forearm immersion is both portable and affordable. For the first time, we have an effective, easy-to-use tool that can help mitigate the firefighter stress problem at very low cost.

#### How Effective is Limb Immersion?

Studies have been conducted that verify the unrivaled core cooling effectiveness of limb immersion in readily available (not chilled) water.<sup>4</sup> Specifically, studies have shown core temperature decreases of 1.3 to 2.9° F (0.7 to 1.6° C) when hands and arms have been immersed in non-chilled water for 10-20 minutes following hard work activity for individuals wearing protective clothing.<sup>5,6</sup> This is a huge temperature change since the difference between normal body temperature of

98.6° F (54.78° C) and threshold heat stress for medically selected and acclimatized personnel of 101.3° F (38.5° C)<sup>7</sup> is a difference of only 2.7° F (1.5° C). For purposes of these studies, unchilled water is defined as having a temperature of between 50-86° F (10-30° C), which is the range of water temperature normally anticipated from a tap, hose line, tanker, etc.



Contact us for greater detail on rehab studies and/or draft use protocols.

<sup>1</sup> NFPA's Survey of Fire Departments for U.S. Fire Experience (2001), NFPA Fire Analysis and Research Division, Quincy, MA 02269

<sup>2</sup> D.L. Smith, PH.D, T.S. Manning, M.S., and Petruzzello, PH.D. "Effects Of Live Fire Training On Recruits"

<sup>3</sup> Tom M. McLellan, PHD, "Current Fire Fighter Occupational Medicine Issues, Approaches for Fire Fighter Rehabilitation," Speaker's Abstract from the International Association of Fire Fighters' Redmond Symposium of October 2003

<sup>4</sup> Livingston, S.D, R. W. Nolan and S. W. Cattroll, "Heat Loss Caused by Immersing the Hands in Water", Aviation, Space and Environmental Medicine, December 1989, pp. 1166-1171

<sup>5</sup> House, J.R., "Extremity Cooling as a Method for Reducing Heat Strain," Journal of Defense Science, Vol. 3, No. 1 1998

<sup>6</sup> House, J.R., C. Holmes, and A. J. Allsopp, "Prevention of Heat Strain by Immersing the Hands and Forearms in Water," Journal of Royal Naval Medical Service, Vol 83, No. 1, 1997, pp. 26-30

<sup>7</sup> American Industrial Hygiene Association Guidelines

## Kore Kooler Rehab Chair Details

Patented

The Morning Pride **Kore Kooler Rehab Chair** is a patented concept, developed by a firefighter himself for firefighters. It essentially entails a modified folding chair with arm reservoirs that contain plastic bags filled with ambient temperature water. After each individual rehab, the bags are removed with the water they contain and a new bag is inserted to be filled with clean water. Foot immersion is far more difficult logistically on the fire-ground; and while it could also be done, the studies show that forearm immersion alone delivers almost the same cooling power.<sup>5</sup>

There is no need to cool the water in the reservoirs; ambient temperature water from a house spigot, engine pump or hydrant works perfectly. However, cooler water may be used if local EMS protocols allow.



- The chair weight capacity is rated at 300 lbs (136.0 kg) and features wide rail construction to accommodate the bulk of turnout gear.
- The sling construction mimics a hammock effect to relax and support the firefighter comfortably in perfect limb immersion position.
- There is an optional REHAB Sun Shade (highly recommended) which clamps to the chair. The Sun Shade has a tension shaft that can be adjusted to block the sun from any direction. This allows us to keep the Sun Shade small enough so as not to obstruct the area of other rehab chair users.
- The REHAB Sun Shade can be silk screened with your fire department's logo or apparatus marking.
- Blue chairs are in stock for immediate shipment (please allow a few weeks for customized, silk screened products).
- Black and lime chairs can also be ordered, but please allow 3-4 weeks for construction.
- Replacement packs of reservoir bags (highly recommended with chair purchases) are in stock for immediate shipment.

## Kore Kooler Rehab Chair

- KORE KOOLER Rehab Chair, vented carrying bag and 2 disposable arm water reservoir bags

**Part No. KK-CHAIRKIT**

## Popular Options

- Quick attach REHAB Sun Shade (Highly recommended)

**Part No. KK-SSH**



*Custom department logos may be added on white sun shade panels ("REHAB" is standard on 2 white panels)*

- Custom department logo imprinting on sun shade – **Part No. KK-SSSH**
- Custom department logo imprinting on carrying bag – **Part No. KK-SSBAG**

- 50 extra disposable arm reservoir water bags in a plastic pack



(Highly recommended with chair purchases) – **Part No. KK-BAGS**



*Carrying bag shown with custom department logo*

## Specifications:

- Seat height: 16" (43.6 cm)
- Chair weight: 11 lbs – Empty (5.0 kg)
- Chair weight capacity: 300 lbs (136.0 kg)
- Blue in stock (Allow 3-4 weeks for special order black or lime chairs or custom logo products)

Assembled in USA

<sup>5</sup> House, J.R., "Extremity Cooling as a Method for Reducing Heat Strain," Journal of Defense Science, Vol. 3, No. 1 1998

## Multiple End User Contracts

Many times, personal protective equipment is available to departments without going to bid, no matter what the dollar value or the quantity. Honeywell First Responder Products and its distributors often participate in what would be classified as Multiple End User Contracts. Generally, these types of contracts fall into the following categories:

1. **Statewide Contracts:** In some parts of the country, the state government will arrange for bids for certain firefighters' PPE items. There are contracts that include a "Good, Better or Best" type of product selection, or a "discount from manufacturer's retail," allowing access to entire product lines. MA, MS, NJ, NY, OH and PA currently have full statewide contracts, while other states have only certain items available.
2. **Add-on Contracts:** In every state we have researched, there is a provision in the law that allows one political subdivision within the state, often including state agencies, to purchase off of any other political subdivision's legally awarded bids. Often our products' bid will include a discount from retail that allows the department that

adds-on – commonly called piggy backing – to select the brand and model that suits them best.

3. **General Services Administration (GSA) Municipal Use:** Although mostly a military/federal convenience, civilian departments may also qualify to purchase through the GSA system. If you are interested, we will research it for your fire department.
4. **Military Customers:** We work with key and/or prime vendors to maintain full service GSA and Preferred Vendor programs for military customers. Contact us for more information or to discuss how we may assist your department in any other way.

## Firefighter Managed

Honeywell First Responder Products is managed by an active member of the fire service and a large percentage of our staff are firefighters/ EMTs/first responders. As a result, we have a special dedication to the total satisfaction of our customers. We feel that this dedication, which reflects itself in every phase of our operation, is the reason that we have risen to market dominance. Firefighters have always been best at taking care of firefighters, and we are proud to continue that great tradition.

## Highest Ethical Standards

Honeywell First Responder Products recognize our success is possible only because the fire service industry has come to respect our commitment to the highest standards in business practices, product design and customer support. As sustaining members of the following organizations, our brands honor their applicable "Code of Ethics" scrupulously.



IAFC – International Association of Fire Chiefs



NFPA – National Fire Protection Association



NVFC – National Volunteer Fire Council



ISFSI – International Society of Fire Service Instructors



FDSOA – Fire Department Safety Officers Association



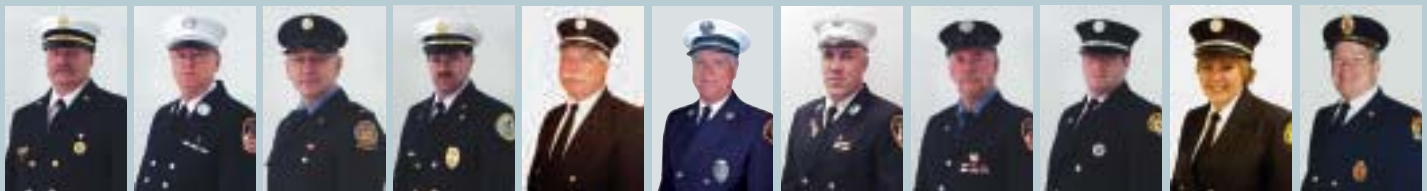
NFFF – National Fallen Firefighters Foundation



FEMSA – Fire Equipment Manufacturers & Suppliers Association



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