

**Firefighter Rehab/EMS Grant Award  
Neenah-Menasha Fire Rescue**

**Shift Commander Dan Schultz  
Grant Administrator**

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## Amendment Package

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Federal Emergency Management Agency  
Washington, D.C. 20472

Ms. Tara Theisen  
Neenah Menasha Fire Rescue  
125 East Columbian Ave.  
Neenah, Wisconsin 54956-3013

Re: Grant No. EMW-2008-FR-00414

Dear Ms. Theisen:

This letter is written in response to your amendment request regarding a change within the scope of the grant as stated. You may obtain the items listed in the amendment, and your request is hereby approved for purchasing. As a result of this approval, your Grant Period of Performance and Article III of your Grant Agreement Articles are amended to extend your grant from November 3, 2008 through October 1, 2012.

Please maintain copies of all bids/quotes, purchase receipts, vouchers, etc., along with a copy of this letter in your grant file. All other terms and conditions remain unchanged.

If you have any further questions and/or concerns please contact me at 202-786-9542.

Sincerely,

Jane L. Early  
Grant Management Specialist  
202-786-9542

## Section 2: Grant Application Narrative

### Rehab Award 2008 Surplus Funds Amendment Grant Award

#### SECTION 1 Project Description:

Neenah Menasha Fire Rescue would like to meet the NFPA Standard of 1584, "Rehabilitation Process for Members During Emergency Operations and Training Exercises". Currently we are limited in achieving areas of the standard like having an SOG in place, Rehydration fluids on scene, Ambulance with ALS capabilities on scene, and an accountability system in place. We currently cannot meet areas of the standard like cooling and warming assistance other than with the heat and cooling of our apparatus cabs and the environment. We do not have any way to remove people to a place other than around our apparatus, because we are limited to our apparatus for shelter. And our apparatus currently provides our best rehabilitation areas for rest and recovery. Per the standard, we are to have an area sufficient distance from the effects of operations on the scene. If we currently did this we would have our members standing out in the middle of nowhere sitting on the ground. We would also like to be able to better monitor our personnel for the effects of CO poisoning, to prevent the possibility of even mild CO poisoning causing mental confusion, leading to poor decision making, putting both the exposed firefighter, as well as, others at risk. Our plan is to fully meet the NFPA standard 1584 with the addition of the following equipment to compliment our current limited abilities we have. The equipment would include the following: Rehab package, with a total cost of \$25,650 to include: Rehab Shelter Package, \$1,395 (shelter, folding table, (4) relaxation chairs, (2) folding chairs, army cot, plastic tote, shelter lights, extension cord, power adapter, waste container. Core Cooling Package, \$2,960 (two misting rehab fans, two misting rehab showers, two core cooler rehab chairs, core cooling kits, cooling towels, change out t-shirts). Core Warming Kit, \$1,139 (rehab area heater, blanket, emergency warming blankets, Change out sweatshirts, change out sweatpants, change out socks, jersey gloves, stocking caps, storage bin). Five (5) Pulse CO-Oximeter with adult sensor, carry case, and quick reference guide, \$4,000 each x 5 = \$20,000. Shipping charges of approximately \$156. Since we have the ability to respond to our own responses, mutual aid, Mutual Aid Box Alarm System responses, and Automatic Aid responses, we will distribute most of the equipment between three emergency response apparatus. The Co-Oximeter's will be distributed between each of our four front line Engines and Command emergency apparatus, guaranteeing that there will be equipment and monitoring electronics to meet the protective needs of our firefighting personnel no matter if they are on one of our incidents or at one of our neighboring communities. As I write this we just had crews come off a fire ground where they rotated for about 19 hours on a house fire, we were unable to provide any remote rehab area and the firefighter's had to stay close to the apparatus for warmth throughout the night.

## **SECTION 2 Cost/Benefit:**

With the financial struggles of our two communities we will not be able to fund expanding our current SOG on firefighter rehabilitation. We would continue with no way to cool or warm our firefighter's or civilian's cores, or provide a remote shelter away from incidents or monitor their CO/oxygen intake levels. The current budgets have pushed out our apparatus replacement plans five years, we are taking items like SCBA replacements out of our capital expenditure plans and will only replace them when they begin to fail, hopefully not at a bad time. The equipment package that we are requesting has tools that have a long life expectancy and will assist in providing firefighter safety for a long time. The cost of the equipment package is a small cost in comparison to others awarded throughout the AFG program and has a value comparable to that of PPE, SCBA's or any other firefighter safety item. It has a cost value of only \$377 per department member on a one-time purchase and is a bonus to other departments that we respond to or receive help from. The ability to use the equipment on the rescue of our citizens is a bonus. No other fire departments in our area have this equipment, and if requested to assist them on an incident we will have equipment to help their personnel in those situations. I would consider these costs reasonable compared to the high benefit that we would receive from this Rehabilitation Package to meet NFPA 1584.

## **SECTION 3 Statement of Effect:**

The benefit of this equipment will provide an immediate impact on the safety of our firefighters while operating on all emergency incidents and training operations. The equipment as described and requested above will allow us to monitor the conditions of our firefighter's and those operating on our emergency incidents and training operations. We will be able to stabilize and maintain a safe core temperature in hot and cold environments. We will be able to provide them rest and recovery areas that are in a safe location and we will be able to monitor their carbon monoxide intake, along with oxygen saturation to understand the conditions they are working in to help provide safe working conditions. By analyzing CO levels in a rehab area we will be able to determine what operational tactics need to change and adjusting in the proper ways before it is too late. This will be used on all emergency incidents where Heat, Cold or CO issues are present. It is an opportunity for us to study in a scientific form the effects our firefighters are facing while training and at emergencies. We can use this information to see the effects of our current air monitoring SOG's and possible advanced medical care they may need if exposed. The Core Cooler kit will be used on all fire incident and incident/training when the possibility of an individual's core could have the chance of rising into areas of operation/health concerns. The Core Warming kit will be used on incidents that are impacted by our strong Wisconsin winters with temperature below freezing. This will include fire, water/ice rescues, HAZMAT, and special operations activities. We will be able to use this kit in conjunction of our water/ice rescue responses for the core warming of civilians that we rescue from the chilling waters surrounding our communities and our rescuer's during rehab (since Jan 2010 we have had 6 incidents that had rescue/recovery of civilian's that accounted for 5 deaths in 4 of the incidents in ice/water conditions). The CO-Oximeter's will also provide a bonus for our community in that we will request from our Medical Director that our First Responder's have the ability to use these meters

on the public for Carbon Monoxide incidents. Currently, our local ALS provider does not carry this type of unit on any ambulances in our communities (in initial discussion we feel he will grant us this ability). Upon receipt of the award and equipment, we will modify our current SOG to meet and fully comply with NFPA 1584. This equipment has the opportunity to be used on any of the average 2,300 calls that we have each year. Any of the calls we go on have the potential of the need for some level of recovery for our firefighters and protection of our civilians, for that reason the equipment could be used on all or in part on any incident.

#### **SECTION 4 Other information:**

The consequences of not having this proposal funded are simple and sobering. Without an accurate means of detecting CO on the fire ground, firefighters may be allowed to continue fire ground operations, even after exposure to CO. This will place them at increased risk of acute medical problems, including the possibility of death. Further consequences include repeated exposure to CO of firefighting personnel, resulting in long-term health problems including heart and brain damage. Acute CO poisoning can decrease myocardial function and vasodilatation, leading to decreased oxygen delivery to the myocardium, often resulting in dangerous cardiac rhythms. Long-term health risks, including heart and brain damage, increase with exposure to CO, this we want to eliminate. The short and long-term health risks, associated with exposure to CO, are the same for the general public as is with fire ground personnel, and the consequences will be just as serious. CO poisoning is a silent killer that attacks without warning, with signs and symptoms mimicking the flu, often resulting in improper diagnosis. Without CO detection equipment, the risk of misdiagnosing CO poisoning of patients on medical calls will continue. NMFR responds to over an average of 2,300 calls annually; 30% representing fire calls, with the remaining representing medical and trauma calls. Many of the fire calls, even if not a fully involved structure fire, involve some kind of exposure to smoke that necessitates the need for CO detection equipment. A review of the NMFR's run statistics indicates that fair amount of the medical calls responded to on an annual basis involve a medical problem who have signs and symptoms of a common ailment that, in reality, may have resulted from CO poisoning, this further necessitating the need for CO detection equipment. The approval of this grant application with CO-Oximeter's gives us a bonus for our citizens on a high volume of EMS calls, in addition to that of our firefighter's.

**Section 3:**  
**Equipment Purchase Recommendation**

### **Section 3: Equipment Purchase Recommendation**

Neenah Menasha Fire Rescue under the FEMA AFG grant guidelines will pay 25% of the totals listed below in the packages. The total cost of the proposed items to be purchased would be \$24,748.10 plus shipping of \$303.00 for a total of \$25,051.10. Neenah-Menasha Fire Rescue share would be \$6,262.78. FEMA share would be \$18,788.32.

#### **CO-Oximeters:**

**Purchase five (5) Masimo Rad-57 with CO at a price of \$3,851.00 each, for a total of \$19,255.00 plus shipping (\$55.00 approximately).**

No other vendors offer this technology, it is proprietary to Masimo. It can only be purchased factory direct.

#### **Core Warming Package:**

**Purchase one package, #RHK3000 Core Warming Package, from DQE at a price of \$1,138.10 plus shipping.**

No other packages can be found by a supplier, we could piece a package together locally with no projected savings.

#### **Core Cooling Package:**

**Purchase two packages, #RHK2000 Core Cooling Package, from DQE at a price of \$1,480.00 each, for a total of \$2,960.00 plus shipping.**

No other packages can be found from one supplier, when comparing individual components they break down as follows with no savings when packaged:

TPI – Portable 18” Self Contained Mister \$699.00 each x 2 = \$1,398.00

EMS Innovations “ICE” system “Rehab kit 3” Rehab Chair = \$6,300.00

TPI rehab chairs are more complex therefore more expensive, however, we feel that the standard chairs from DQE will meet the requirements we need for our operations.

Radford Brother Industrial Supply Misting Shower \$366.33 each x 2 = \$732.46

When adding up buying the items separately the cost is higher then buying the packages from DQE.

#### **Rehab Shelter Package:**

**Purchase one package, #RHK1000 Rehab Shelter Package, from DQE at a price of \$1,395.00 plus shipping.**

Package from DQE is most complete and the best price with options included, no other manufacturer that we could find offered a similar package.

When priced separately items we could find were as follows:

EMS Innovations Push Up Command Tent portable shelter \$495.00. (Tent only).

Folding chairs \$90.00 each x 6 = \$540.00.

EMS Innovations military style cot \$63.00.

Rehab area toolbox \$259.95.

Folding table \$75.00.

\*Core Warming, Cooling, and Shelter package shipping estimated at \$248.00 total.



40 Parker  
Irvine, CA 92618  
Tel: 949-297-7000  
Fax: 949-297-7001

January 4, 2011

To Whom It May Concern:

Masimo Corporation is a technology company that develops and manufactures non-invasive medical devices.

Masimo is the sole manufacturer of the Rad-57 product, which can non-invasively measure carboxyhemoglobin, methemoglobin, SpO<sub>2</sub> and pulse rate.

The Rad-57 is the only medical device that has been cleared by the Federal Food and Drug Administration (FDA) to non-invasively measure carboxyhemoglobin and methemoglobin in the blood stream through a finger sensor. This device is only sold directly from Masimo, and is not available through any other distribution outlet to the Fire and EMS market.

Masimo's specialized technology is the gold standard by which SpO<sub>2</sub> is measured, and utilizes this technology to provide unparalleled performance through patient motion and low perfusion conditions.

Sincerely,

Thomas L. Cox  
EMS Channel Manager  
Masimo Corporation  
40 Parker  
Irvine, CA 92618





# Fire/EMS Government Quotation & Order Form

Order Desk:	40 Parker Irvine, CA 92618-1604	Quotation Number:	60068
Phone:	1.800.326.4890	Quotation Date:	August 9, 2012
Email:	Customerorders@masimo.com	Quotation Expiration:	September 30, 2012
Fax:	1.877.236.0280		

Customer Name:	Neenah-Menasha Fire Rescue	Customer Contact:	Dan Schultz
Address:	125 E Columbian Ave	Phone Number:	920-886-6200
City, State, Zip:	Neenah, WI 54956-3013	Fax Number:	
Building:		E-Mail Address:	dschultz@nmfire.org

Customer Bill To:		AP Contact:	
Address:		Phone Number:	
City, State, Zip:		Fax Number:	
Building:		E-Mail Address:	

Payment Terms:	Net 30 days from shipment	Masimo Sales Contact:	Bob Owen
Delivery:	Within 30 days after receipt of order	Phone Number:	(253) 627-2145
Shipping Point:	Origin. Shipping charges prepaid & invoiced	Fax Number:	(253) 461-1721
Price:	Excludes sales tax and shipping charges	E-Mail Address:	rowen@masimo.com
Tax Exempt	Yes - No	Tax Resale Number:	

Optional Payment	Credit Card number	Name On Card	Expiration Date
Visa:			
Master Card:			
Amex:			

	Part ID	Description	Qty	MSRP	Unit Price	Total Price
1	9216	Rad-57 Handheld	5		\$ 695.00	\$ 3,475.00
2	2296	Carboxyhemoglobin (SpCO) parameter [valid for the life of the device on which it is installed]	5		\$ 2,450.00	\$ 12,250.00
3	2696	RAINBOW DCI, SpO2/SpCO/SpMet, 1/BX	5		\$ 695.00	\$ 3,475.00
4	2405	Rainbow RC-1 Rainbow 20-pin Patient Cable, 1 ft	5		\$ 215.00	\$ 0.00
5	2208	Water Resistant Protective Carrying Case for Battery operated portable handhelds, Red	5		\$ 0.00	\$ 0.00
6		Shipping (estimate only and subject to change)	5		\$ 11.00	\$ 55.00
7	PS7645	SpO2/SpCO-EMTs Manual by Brian Bledsoe	5		\$ 14.95	\$ 0.00
8	6333	Rad-57 Training DVD	1		\$ 0.00	\$ 0.00
9	31740	Operator's Manual, Rad-57	1		\$ 0.00	\$ 0.00
10	33650	QUICK REFERENCE GUIDE, RAD-57 CONFIG EMS	10		\$ 4.67	\$ 0.00

**Total** **\$ 19,255.00**

**On site training provided at no charge**

**Special Instructions:**

Purchase Orders issued pursuant to this Quotation shall include this Quotation or reference the Quotation Number. Purchase Orders issued pursuant to this Quotation and accepted by Masimo shall be subject to Masimo Terms and Conditions of Sale and are incorporated herein by reference. They may be reviewed at <http://www.masimo.com/t&c.htm>. In the event Customer elects to pay by Credit Card, Customer shall provide Credit Card information in the Payment Section above or in the event that Customer uses this Quotation as Customers Purchase Order Form, Customer shall provide the



# Fire/EMS Government Quotation & Order Form

Purchase Order below.

ALL PURCHASE ORDERS SHOULD BE FAXED TO 877.236.0280.

Purchase Order  
#:

Authorized Signature:

Agreed to: Customer  
Name

Masimo

Printed Name

Title

Date



# Quotation

Quote: 104430  
 Date: 8/9/2012  
 Page: 1

9910 North by Northeast Blvd, Suite 600  
 Fishers IN 46037-9085  
 Phone: 800-355-4628  
 Fax: 317-295-9822

**Bill To:**  
 Neenah Menasha Fire Rescue  
  
 125 East Columbian Avenue  
  
 Neenah WI 54956

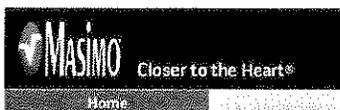
**Ship To:**  
 Neenah Menasha Fire Rescue  
  
 125 East Columbian Avenue  
  
 Neenah WI 54956

Purchase Order No.	Customer ID	Salesperson ID	Shipping Method	Payment Terms	Req Ship Date
	NEENA01		OLD DOMINION	Net 30	0/0/0000

Quantity	Item Number	Description	UOM	Discount	Unit Price	Extended Price
1	RHK1000	Rehab Shelter Package	Each	\$0.0000	\$1,395.0000	\$1,395.00
2	RHK2000	Core Cooling Package	Each	\$0.0000	\$1,480.0000	\$2,960.00
1	RHK3000	Core Warming Package	Each	\$0.0000	\$1,138.1000	\$1,138.10

<b>Subtotal</b>	\$5,493.10
<b>Misc</b>	\$0.00
<b>Tax</b>	\$0.00
<b>Freight</b>	\$248.00
<b>Trade Discount</b>	\$0.00
<b>Total</b>	<b>\$5,741.10</b>



- About Masimo
- Rainbow Pulse CO-Oximetry
- Rainbow Acoustic Monitoring
- Signal Extraction Pulse Oximetry
- SEDLine Brain Function Monitoring
- Patient SafetyNet Remote Monitoring
- Multigas Monitoring
- OEM Products & Solutions
- Clinical Evidence
- News & Media
- Investors
- Contact

Technology Overview | Radical-7 | Rad-87 | Rad-57 | Pronto-7 | Pronto | Sensors & Cables

# MASIMO Rad-57™



> Click here for Rad-57 for Fire/EMS markets

The world's most versatile handheld oximeter, featuring fully upgradable rainbow® technology.

Get Masimo SET® oxygen saturation, pulse rate, and perfusion index now—and upgrade later to total hemoglobin, oxygen content, carboxyhemoglobin, methemoglobin, and Pleth Variability Index (PVI®).

### Saving Lives



> Read first-hand accounts of how Rad-57 is making a definitive, lifesaving difference for patients and emergency first responders in real-life situations.

#### FEATURED PROGRAM:

## BTR-CR

Masimo's new risk-share program for Blood Transfusion Related Cost Reduction using noninvasive and continuous total hemoglobin (SpHb™) monitoring.

To learn more, click here >>



### 2011 MASIMO ANNUAL REPORT

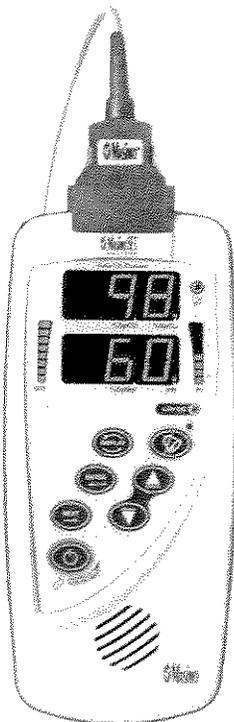
Download the 2011 Masimo Annual Report



To Download, Click Here >



### Non-CME Clinical Education Videos



*Pictured above is the Rad-57 in SpO<sub>2</sub> mode. Display features will vary based on the noninvasive measurements loaded onto the device.*

### Technology

- > More than 100 independent and objective studies demonstrate Masimo SET provides the most reliable SpO<sub>2</sub> and pulse rate measurements even under the most challenging clinical conditions, including patient motion and low peripheral perfusion.
- > Masimo rainbow SET technology analyzes multiple wavelengths of light to accurately measure total hemoglobin (SpHb®), oxygen content (SpOC™), carboxyhemoglobin (SpCO®), methemoglobin (SpMet®), and Pleth Variability Index (PVI) noninvasively and continuously.

### Clinical Benefits

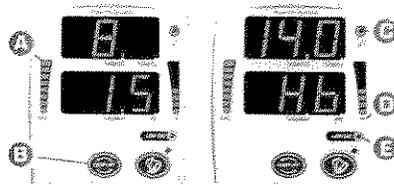
- > **Masimo SET pulse oximetry** - Virtually eliminates false alarms without missing true clinical events.
- > **Upgradable rainbow SET Pulse CO-Oximetry measurements include:**
  - > Total Hemoglobin (SpHb)
  - > Oxygen Content (SpOC)
  - > Carboxyhemoglobin (SpCO)
  - > Methemoglobin (SpMet)
  - > Pleth Variability Index (PVI)

### Screen Displays

**A:** SIQ bar provides continuous indication of signal quality levels.

**C:** The Alarm Status Indicator flashes when an alarm condition is present.

B: Pressing the display button allows user to toggle between parameters loaded on device.



D: PI bar provides continuous indication of perfusion index

E: Low Signal | Q<sup>®</sup> (S:Q) Indicator highlights conditions of low signal quality.

The Masimo Rad-57's easy-to-read screen provides at-a-glance patient status data.

### Product Overview

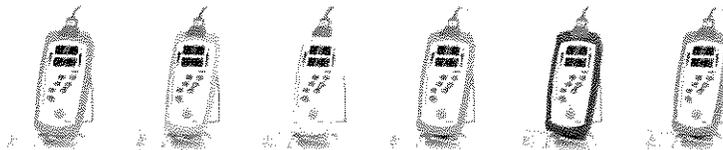
- > Quick and easy-to-use—requires no user calibration and does not require patient cooperation or consciousness.
- > Complete replacement for existing handheld pulse oximeters, with factory-ordered options or simple field-installed software upgrades to continuous monitoring and spot check measurements of SpHb, SpOC, SpCO, SpMet and PVI.
- > Rugged and lightweight—ideal for field or hospital settings.
- > Awarded Airworthiness Release Certification by the United States Army.



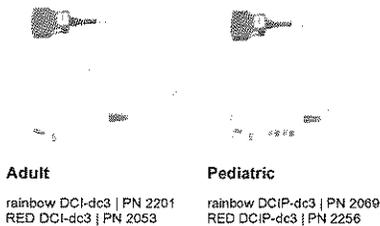
### Features

- > User may program default power-up settings.
- > Delivers more than 10 hours of continuous battery life.
- > Up to 72 hours of trending memory.
- > FastSat<sup>®</sup> tracks rapid changes in arterial O<sub>2</sub> with unmatched fidelity.
- > SmarTone™ beeps in sync with pulse, even under patient motion conditions.
- > Sensitivity options of APOD<sup>®</sup>, Normal, and MAX™ provide flexibility to support a range of clinical applications.

Protective boots are available in your choice of seven different colors.



### Reusable Sensor Options



**Adult**

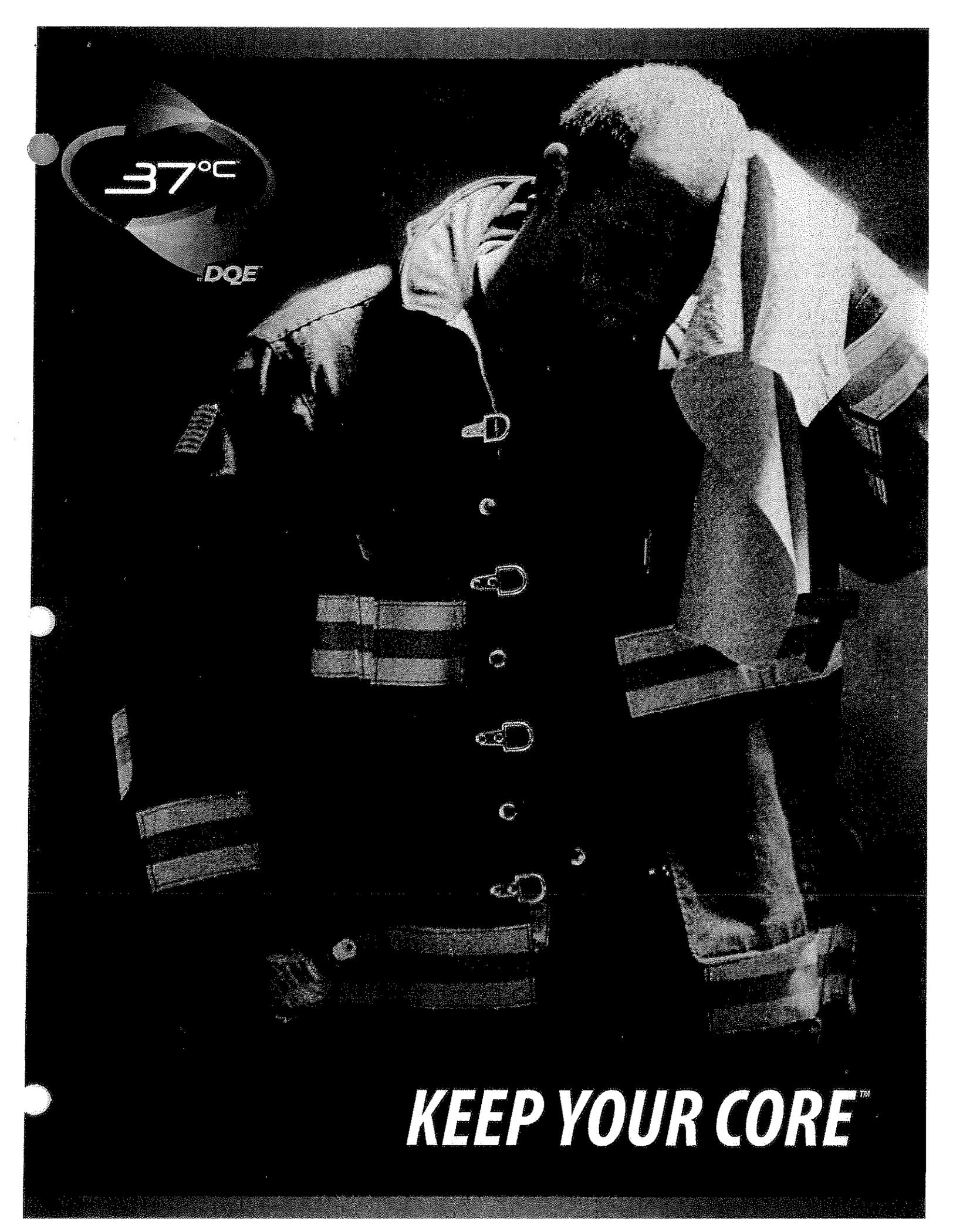
rainbow DCI-dc3 | PN 2201  
RED DCI-dc3 | PN 2053

**Pediatric**

rainbow DCIP-dc3 | PN 2069  
RED DCIP-dc3 | PN 2256

- > Rad-57 Comes standard with Oxygen Saturation (SpO<sub>2</sub>), Pulse Rate, and Perfusion Index | PN9188
- > rainbow<sup>®</sup> reusable sensors available in 3 ft., 8 ft. and 12 ft. cable lengths.
- > Red reusable sensors available in 3 ft. and 12 ft. cable lengths.
- > Masimo Rad-57 can also be used with Masimo LNOP<sup>®</sup> and LNCS<sup>®</sup> adhesive sensors.
- > rainbow sensors must be used when reading SpHb, SpCO and SpMet. Red sensors can be used for SpO<sub>2</sub>, PR and PI only.

Available Upgrades	PN
Hemoglobin (SpHb) and Oxygen Content (SpOC)	2630
Carboxyhemoglobin (SpCO)	2296
Methemoglobin (SpMet)	2297



37°C

DQE

***KEEP YOUR CORE™***

Rehab products to maintain your  
37°C core body temperature.

Perform at your best and  
**KEEP YOUR CORE.™**

Sustaining a core body temperature  
of 37°C (98.6°F) while working in  
challenging environments is essential  
to staying safe, healthy, and productive.

All 37°C rehab products are designed  
to support the NFPA 1584 Rehab

Standard to make it easier to maintain

high activity levels while ensuring  
emergency responder safety.

Rehab Packages That Fit Your Needs

These packages make it easy to know which  
emergency incident rehabilitation products  
are needed for a rehab area.

- ◀ REHAB SHELTER PACKAGE *RHK1000*
- ◀ CORE COOLING PACKAGE *RHK2000*
- ◀ CORE WARMING PACKAGE *RHK3000*
- ◀ HYGIENE PACKAGE *RHK4000*
- ◀ COMPLETE REHAB SOLUTION PACKAGE  
*RHK5000*

All four rehab packages are combined to form a  
comprehensive rehab equipment solution.

Additional package information available at  
[www.dqeready.com/37C](http://www.dqeready.com/37C).



# REHAB SHELTER PACKAGE *RHK1000*

*Rehab starts with establishing an area for rest, recovery, and relief from the elements. The Rehab Shelter Package contains the following:*

- A. REHAB AREA SHELTER *RH3000*
- B. REHAB AREA FOLDING TABLE *RH2013*
- C. REHAB RELAXATION CHAIR (4 EACH) *RH2003*
- D. FOLDING CHAIR (2 EACH) *MC4047*
- E. ARMY COT *MC4046*
- F. REHAB AREA TOOLBOX *RH2020*
- G. REHAB SHELTER LIGHT (2 EACH) *RH3100*
- H. EXTENSION CORD *HM1070*
- I. 3-WAY POWER ADAPTER *HM1071*
- J. SACK-IT™ CLEAN-UP DISPENSER *HM375*



#### **A. REHAB AREA SHELTER RH3000**

Provides shade and protection from the elements for rehab setup. The frame is rust-resistant and the water and fire-resistant fabric meets CPAI-84 requirements.

- ◀ 10' x 10' white canopy stays attached to the frame for quick setup
- ◀ "REHAB" is printed on two sides of the shelter for easy identification
- ◀ Four removable sidewalls provide additional sun and wind protection
- ◀ Roller bag included

#### **B. REHAB AREA FOLDING TABLE RH2013**

Durable and portable folding table that supports medical monitoring or other rehab functions. Open size: 24"W x 48"L x 29"H.

#### **C. REHAB RELAXATION CHAIR RH2003**

Extra wide, comfortable chair with a cushioned armrest, back, and seat for relaxation during rehab. Constructed of durable nylon with a steel collapsible frame. Seat height: 18". Weight limit: 500 lbs. Unit weight: 15 lbs.

#### **D. FOLDING CHAIR MC4047**

Compact, sturdy chair suitable for use on any type of ground. Folds to 1" thick for easy storage. Seat height: 17". Open size: 16"W x 17"L x 29"H. Weight limit: 300 lbs. Unit weight: 4 lbs.

#### **E. ARMY COT MC4046**

Sturdy cot with enhanced stability, along with compact storage to maximize space. Rust-resistant frame. Water and stain-resistant material made of 100% polyester with PVC backing. Open size: 77"L x 28"W x 18"H. Unit Weight: 25 lbs. Weight Limit: 375 lbs.

#### **F. REHAB AREA TOOLBOX RH2020**

Compact plastic tote containing supplies for setting up a rehab area and evaluating the medical status of responders. The toolbox contains:

- ◀ **Rehab Resource Guide RH2023**  
Practical resource on setting up a rehab area and medical conditions that may be encountered during a response. Spiral bound and made of durable, water and tear-resistant paper. Toolbox contains 4.

- ◀ **Rehab ID Vests RH2027**

Identify rehab workers during an emergency response incident. The lime green vests with reflective stripes are printed with rehab on the front and back. Made of durable nylon mesh material. Toolbox contains 4.

- ◀ **Rehab Area Signs RH2021**

Designate the various areas within a rehab setup. Signs are easily hung on the shelter with attached magnet clips. The pack of five, weather-resistant signs designate the areas: Medical Monitoring, Gear Drop, Check In/Out, Rest and Recovery, and EMS Treatment.

- ◀ **Check In/Out Notepad RH2024**

Twenty-page tablet for recording names, department, unit, and company of emergency responders reporting to rehab. Set of 3.

- ◀ **Medical Monitoring Notepad RH2025**

Twenty-page tablet for recording vital signs, medical status, and rehab measures taken. Set of 3.

- ◀ **Rehab Timing Clock RH2022**

Electronic clock with large backlit display for referencing rehab area check in and out time.

#### **G. REHAB SHELTER LIGHT RH3100**

Hanging fluorescent light for illuminating a shelter area. High-impact lamp protector included. Hooks hang either horizontally or vertically. 15 watt, 7,000 hour bulb included. Replacement bulbs (RH3101) available.

#### **H. EXTENSION CORD HM1070**

Safe for outdoor use for rehab supplies requiring electricity. Length: 50'.

#### **I. 3-WAY POWER ADAPTER HM1071**

Connects up to three rehab setup supplies to a power source.

#### **J. SACK-IT™ CLEAN-UP DISPENSER HM375**

Collect and contain waste with this portable clean-up kit. Contains a folding PVC bag holder and a box of 20 super-thick, 3-mil bags with draw-cord closure. Replacement bags (HM380) available.

# CORE COOLING™ PACKAGE RHK2000

*During hot summer months, keep cool with Core Cooling products.*

- A. MISTING REHAB SHOWER RH7000
- B. KORE KOOLER™ REHAB CHAIR (2 EACH) RH2001
- C. MISTING REHAB FAN RH5000
- D. CORE COOLING™ KIT (10 EACH) RHK2004
- E. CORE COOLING™ TOWELS RH2005
- F. CHANGE-OUT T-SHIRTS RH2006-XL  
CHANGE-OUT T-SHIRTS RH2006-3XL



**A. MISTING REHAB SHOWER RH7000**

Convenient and portable, this shower incorporates specially designed misting nozzles that produce tiny, 10 micron water droplets that evaporate quickly in hot, dry air, resulting in a decrease in air temperature. Six mist nozzles in a 360° configuration. Dimensions: assembled 73" H x 27.5" W. Weight: 10 lbs.

**B. KORE KOOLER™ REHAB CHAIR RH2001**

Provides an effective means of lowering body temperature through hand and forearm immersion. Seat height: 16". Chair weight: 11 lbs. Weight limit: 300 lbs. Vented carrying bag and two Reservoir Bags included. Replacement Reservoir Bags (RH2002) available.

**C. MISTING REHAB FAN RH5000**

Reduce air temperature by up to 35°F. This industrial quality fan sits on top of a ten gallon cooler (included), and cools a 180 square foot area for five hours on 10 gallons of water.

**D. CORE COOLING KIT RHK2004**

Targeted cooling for fast heat relief. This kit eliminates the need for sharing buckets and re-sanitizing towels between users. Open the bucket, fill with cool water, and begin cooling with Core Cooling Towels. Contains one disposable bucket and two 17"x 26" Core Cooling Towels.

**E. CORE COOLING TOWELS RH2005**

Simply rinse with cool water, wring out, and apply to skin around the head, neck, chest or forearms for quick core cooling. Box contains ten, 17"x 26" Core Cooling Towels. Made of patented PVA Chamois cooling material.

**F. CHANGE-OUT T-SHIRTS RH2006-XL; RH2006-3XL**

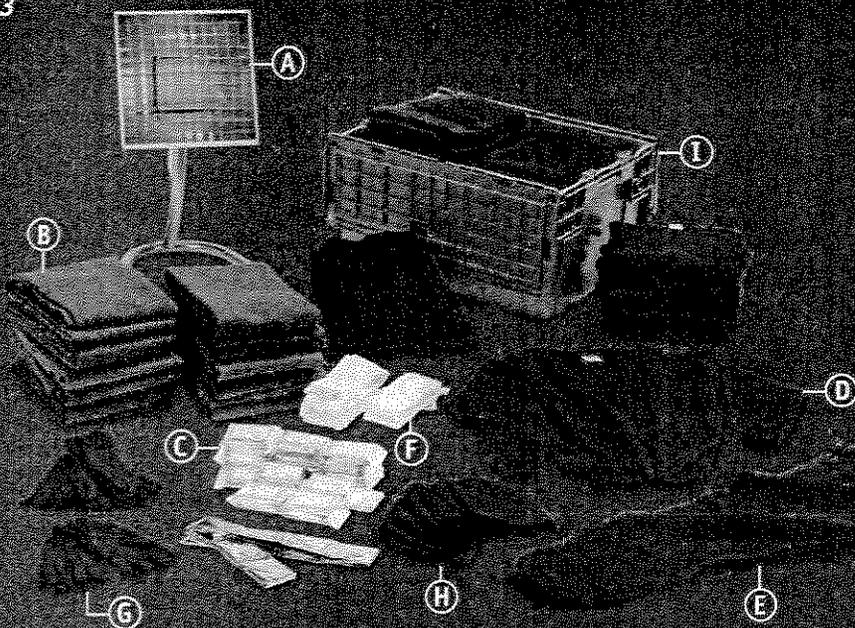
Cotton-polyester t-shirts to change into during the rehab process to keep dry. Pack of 6.



# CORE WARMING PACKAGE *RHK3000*

*Warm up quickly with core warming products.*

- A. REHAB AREA HEATER *RH5100*
- B. BLANKET (10 EACH) *CTMC40091*
- C. EMERGENCY WARMING BLANKETS *MC4023*
- D. CHANGE-OUT SWEATSHIRTS  
*RH2007-XL*  
CHANGE-OUT SWEATSHIRTS  
*RH2007-3XL*
- E. CHANGE-OUT SWEATPANTS  
*RH2008-XL*  
CHANGE-OUT SWEATPANTS  
*RH2008-3XL*
- F. CHANGE-OUT SOCKS (2 EACH) *RH2011*
- G. JERSEY GLOVES (2 EACH) *RH2009*
- H. STOCKING CAPS *RH2010*
- I. STORAGE BIN *HM250*



## A. REHAB AREA HEATER *RH5100*

Portable, freestanding 1500W radiant heater that will quickly raise the temperature of a sheltered rehab area by 15 degrees or more. 120V. Some assembly required.

## B. BLANKET *CTMC40091*

Heavy, 100% polyester, gray blanket for quick warming in cold environments. Dimensions: 40" x 80". Individually wrapped. \$5.75

## C. EMERGENCY WARMING BLANKETS *MC4023*

Ultra light, compact Mylar™ blanket retains body heat for emergency warming, especially when combined with Blanket (CTMC40091). Packaged in a pocket-sized 3" x 5" x 1" wrapping. Unfolded 52" x 84". Pack of 25.

## D. CHANGE-OUT SWEATSHIRTS *RH2007-XL; RH2007-3XL*

Cotton-polyester navy sweatshirts to keep warm and dry during the rehab process. Pack of 6.

## E. CHANGE-OUT SWEATPANTS *RH2008-XL; RH2008-3XL*

Cotton-polyester navy sweatpants to keep responders warm and dry during the rehab process. Pack of 6.

## F. CHANGE-OUT SOCKS *RH2011*

Wet feet are most susceptible to cold weather, and a pair of dry socks can make all the difference in being warm and comfortable. Pack of 6 pair.

## G. JERSEY GLOVES *RH2009*

Warm cold and wet hands with 100% cotton knit, brown jersey gloves. 9 oz. Pack of 6 pair.

## H. STOCKING CAPS *RH2010*

Comfortable synthetic blend navy stocking caps. Pack of 6.

## I. STORAGE BIN *HM250*

Handy storage for rehab supplies. High-density polyethylene with attached hinged cover opens and closes easily for ready access. Hand grips for carrying. Non-slip bottom surface. Dimensions: 28" x 20.5" x 15.5".

**Section 4:**  
**CO-Pulse Oximeter Supporting Documents**



August 8, 2012

Dear Sirs,

I am the Medical Director for Gold Cross Ambulance and Neenah-Menasha Fire Rescue. I am writing this letter in support of their proposal to purchase a transcutaneous carbon monoxide detector device for use on their Fire / Rescue apparatus.

This technology will be utilized to assist in detecting carbon monoxide poisoning which is otherwise difficult to diagnose. I have written a protocol for use of this equipment by First Responders and it has been approved by the State of Wisconsin Bureau of EMS.

I want to thank you for your support in helping bring this technology to the community. Please do not hesitate to contact me should you have other questions or need additional information.

Most Sincerely,

A handwritten signature in black ink, appearing to read "Mark D. Westfall".

Mark D. Westfall, D.O.

Medical Director, Gold Cross Ambulance Service

(920-428-0929)



## Gold Cross Ambulance / Medical First Responder Carbon Monoxide Screening Protocol

### Background;

\*First Responder Agencies have committed to screen a large number of patients for unexpected Carbon Monoxide

\*Carbonate Monoxide is a colorless, odorless, and tasteless gas that has an affinity for hemoglobin approximately 200-250 times stronger than oxygen.

### Prerequisite;

- \* Commercially manufactured and FDA reviewed Carbon Monoxide Monitor
- \* Completion of approved training
- \* Passage of didactic assessment / test
- \* Monitoring device used in conjunction with ambient Carbon Monoxide Detector.

### Procedure;

1) Insure scene safety. If ambient Carbon Monoxide is suspected and/or ambient Carbon Monoxide Detector is alarming, move patient(s) from area prior to treatment.

2) Apply finger probe according to manufactures guidelines for patients who have one or more of the following symptoms.

Headache	Confusion
Dizziness	Drowsiness
Nausea and or Vomiting	Syncope
Weakness	Seizure
Fatigue	Dyspnea
Chest Pain	Altered Mental Status

3) Monitor levels for not less than two minutes.

**Leave probe in place if level is 10 or above**

4) Initiate Oxygen therapy as indicated

5) Record level at 30 seconds and at 2 minutes.

6) Complete Advanced skill quality review form.

**Section 5:  
Alternate Equipment Bids**



**EMS Innovations, Inc.**

When disaster strikes. . .Rely on simply the best!

P.O. Box 239  
 Pasadena, MD 21123-0239  
 Corporate Office: 888-236-1267  
 Fax Order Line: 410-255-1299

DATE: August 9, 2012

TO: Neenah - Menasha Fire Rescue  
 125 E. Columbian Ave.  
 NEENAH, WI 54956  
 Attn. Dan Schultz  
 Shift Commander/Grant Administrator  
 (920) 886-6200  
[DSchultz@nmfire.org](mailto:DSchultz@nmfire.org)

Contact: Dan Kinney  
 Direct Line: 515-657-2396  
 Email: [dkinney@emsinnovations.com](mailto:dkinney@emsinnovations.com)

QTY.	ITEM #	DESCRIPTION	UNIT PRICE	LINE TOTAL
1	EM552	ReHab Kit 3 - ICE System and 4 ICE Chairs	\$ 6,300.00	\$ 6,300.00
		OR		
		If you would like to substitute or add other attachments		
		Costs are: Cooling Pads \$350, Cooling Vests \$120		
		System Incules: ICE Cooling Unit (24v Battery, Battery charger, & Power cable,		
		1 - Multi Port Connection manifold to attach 4 accessories		
1	EM408	Push-Up Command Tent (Colors available - Red, Yellow, Blue, Green)	495.00	495.00
		Size - 11' x 16' with 4 removeable sides w/door		
		FREIGHT	223.00	223.00

SUBTOTAL	\$ 7,018.00
SALES TAX	
TOTAL	\$ 7,018.00

Quote is good for 30 days. Shipping is prepay and add.

**Thank you for your business!!**  
[www.emsinnovations.com](http://www.emsinnovations.com)

# STAY COOL!

A major component of the EMS Innovations Rehab Trailer!

## Water-based Rehabilitation System

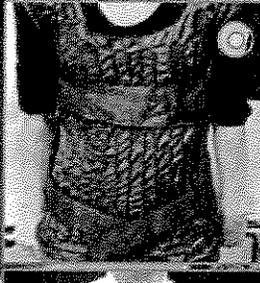
Effectively rehabilitate your crew with the ICE System® and reduce heat stroke, hyperthermia, and dehydration. This rehabilitation system uses NO ICE or special chemicals, but cools the body with ordinary tap water pumped through tubing which is sewn into all of the attachments shown and others not pictured. This versatile and adaptable system cools not only for rehab but for mortuary use and even for hypothermic therapy for victims of stroke or heart attack. Use ICE® for controlled and effective cooling for better outcomes.

### EMS INNOVATIONS INC. ICE (Interchangeable Cooling Environment)

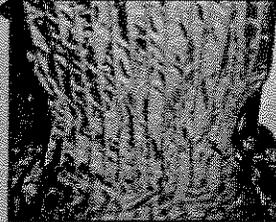
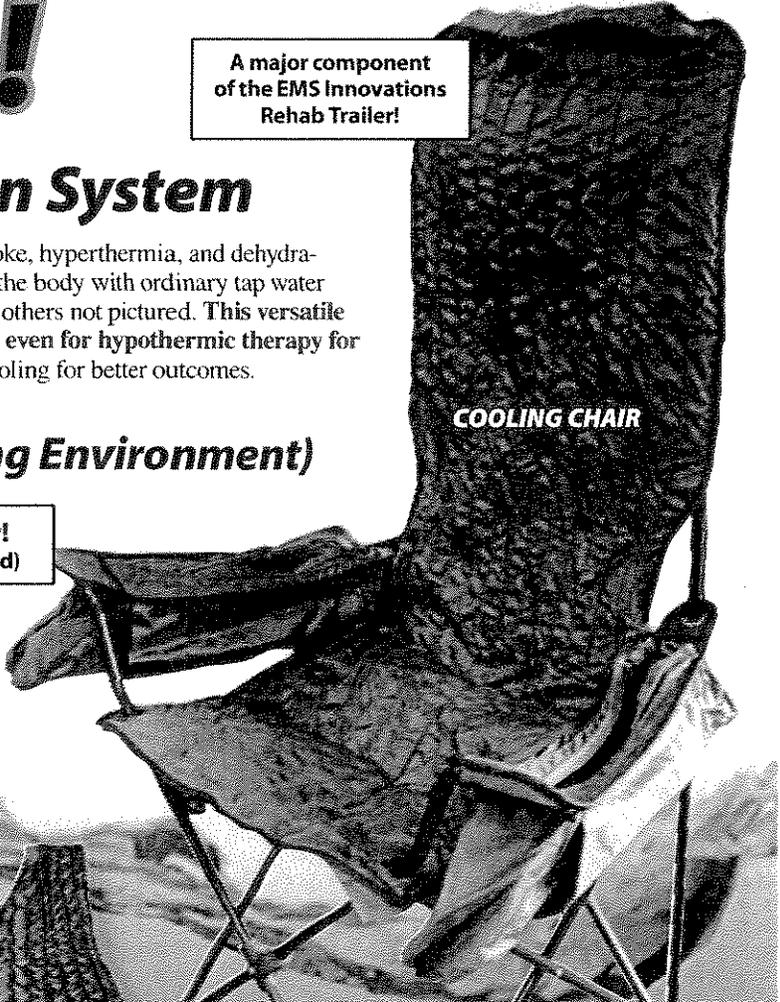
US Patent Pending  
All Rights Reserved

Just add Water!  
(no block ice needed)

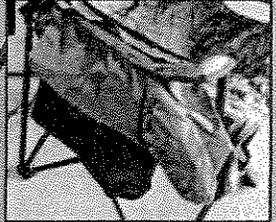
COOLING CHAIR



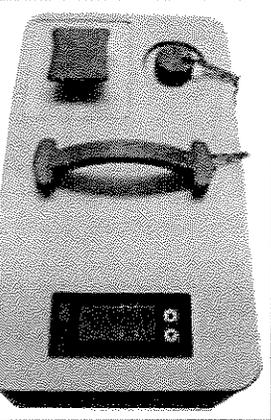
ONE SIZE FITS ALL COOLING VEST



Multiple cooling surfaces and an adjustable pillow increase comfort.



"Cooling pockets" provide a cool area for arms and water bottles.



Top view



LCD Panel

	KIT #	KIT NAME	COMPONENTS OF EACH KIT*	PRICE PER KIT
REHABILITATION	EM550	REHAB Kit 1	1 - ICE Unit, 1 - Multi-Port Connection Hose, 4 - Cooling Vests	\$6,500.00
	EM551	REHAB Kit 2	1 - ICE Unit, 1 - Multi-Port Connection Hose, 8 - Cooling Vests	\$7,000.00
	EM552	REHAB Kit 3	1 - ICE Unit, 1 - Multi-Port Connection Hose, 4 - Cooling Chairs	\$7,000.00
	EM553	REHAB Kit 4	2 - ICE Units, 1 - Multi-Port Connection Hose, 8 - Cooling Chairs	\$13,000.00
	EM554	REHAB Kit 5	1 - ICE Unit, 1 - Multi-Port Connection Hose, 2 - Cooling Vests, and 2 - Cooling Chairs	\$7,000.00
	EM555	REHAB Kit 6	1 - ICE Unit, 1 - Multi-Port Connection Hose, 4 - Cooling Vests, and 4 - Cooling Chairs	\$8,000.00
	EM538	2-Wheel Cart	Accessory Cart for ease of transport	\$104.00

\*Each ICE Unit includes a 24v Battery, Battery Charger, and Power Cable.

- Applications in:
- Ambulances
  - Fire Trucks
  - Hospitals
  - HAZMAT Trucks
  - Military
  - Training
  - Rehabilitation
  - PICU
  - ICU
  - Morgue
  - Patient Transport

- Indications:
- Prevention
  - Intervention
  - Preservation



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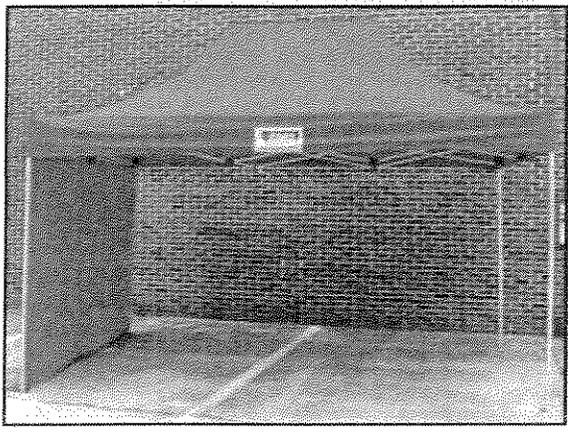
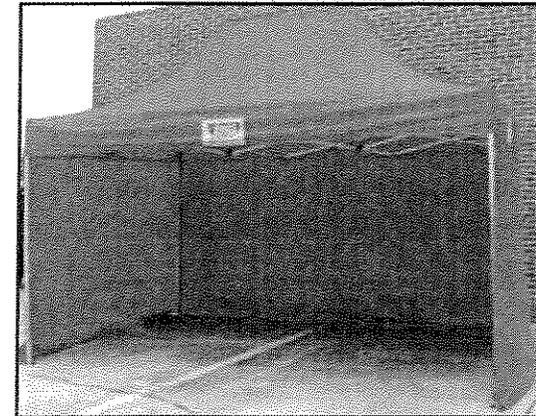
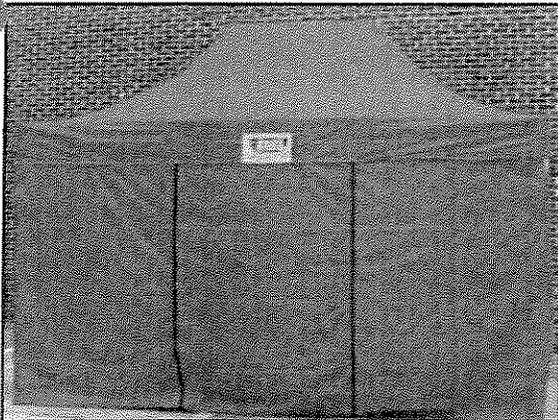


# Push-Up Command Tent

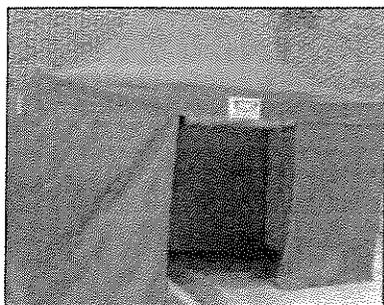
with Collapsible Frame and Removable Side Walls

Large Size!  
11' x 16'

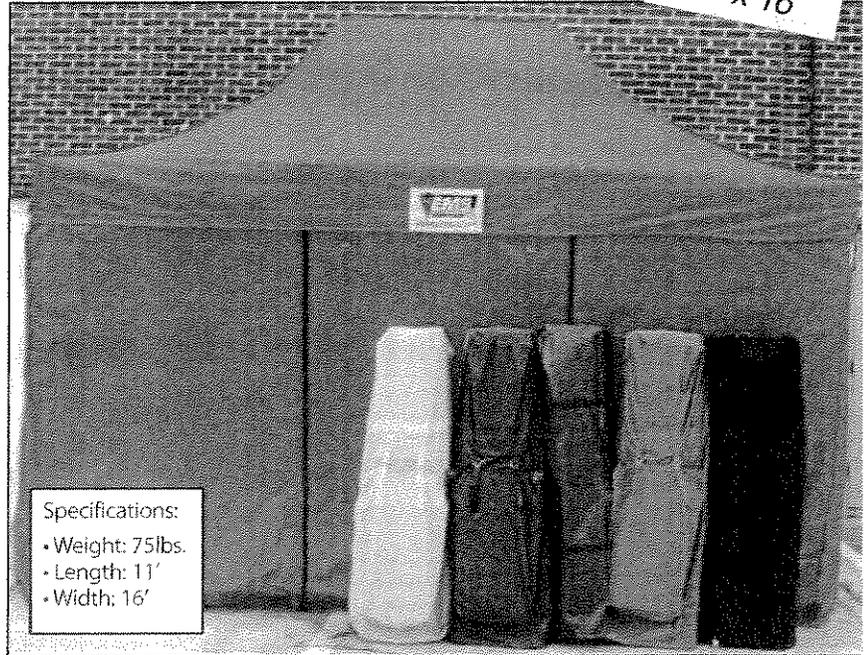
Removable side walls for multiple configurations!



The sturdy tent sides can be fully closed, removed or hung from the center of the tent like curtains.



New roll-up door!



Specifications:

- Weight: 75lbs.
- Length: 11'
- Width: 16'

This instant tent canopy is a perfect, no-fuss outdoor shelter with 4 removable sidewalls. It has a rust-resistant Aluma-Steel Frame for ultimate strength and a 600 Denier Water Resistant Polyester Top. The heavy duty bag will make transporting your canopy a breeze!



A major component of EMS Innovations MCI Trailer Systems

Combine with our other triage equipment for a rapidly deployable field triage site!

EM405	Push-Up Command Tent, Dark Green.....	WAS \$595	<b>NOW \$495*</b>
EM406	Push-Up Command Tent, Yellow.....	WAS \$595	<b>NOW \$495*</b>
EM407	Push-Up Command Tent, Red.....	WAS \$595	<b>NOW \$495*</b>
EM408	Push-Up Command Tent, Green.....	WAS \$595	<b>NOW \$495*</b>
EM409	Push-Up Command Tent, Blue.....	WAS \$595	<b>NOW \$495*</b>
EM410	Push-Up Command Tent, Black.....	WAS \$595	<b>NOW \$495*</b>

\*While supplies last



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