

**NEW!**

# RAPID THERAPEUTIC COOLING WITH...



# ICE

**Interchangeable  
Cooling  
Environment**

**EMS INNOVATIONS, INC.**



**Applications in:**

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

**Indications:**

- Prevention
- Intervention
- Preservation



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**EMS Innovations** has developed a portable system for use in non-invasive rapid therapeutic cooling and preservation cooling. **The ICE® (Interchangeable Cooling Environment) cools and pumps ordinary tap water** through a variety of different attachments (see reverse) to cool **for rehabilitation, temporary preservation of cadavers and for therapeutic use to improve outcomes following cardiac arrest or stroke**. The ICE® system should be an integral part of your protocol for Hyperthermia.

Many studies have been done on the effects of cooling the body shortly after cardiac arrest or stroke establishing how long-term cooling significantly improves outcomes. Traditionally this was accomplished with ice packs, block ice, and invasive procedures with saline and/or a cooler which uses Gluteraldehyde. The EMS Innovations ICE® unit provides the user controlled cooling by utilization of a thermostat. Actual patient temperature monitoring should be used in conjunction with the ICE® Unit. The temperature of the cooling fluid (water) can be set to an exact parameter. An LCD panel on the top of the unit provides feedback of temperature regulation and an indication of the flow of the water through the system. Elimination of the use of Gluteraldehyde ensures that the ICE® system is environmentally safe and less expensive to operate. The ICE® System is a non-invasive approach to rapid patient cooling, eliminating needles and cooled saline.

This same technology can be used with the cooling cap to slow blood flow in the same way to increase long-term success rates. Problems during birth could threaten not only the life of a newborn but lead to slowing cognitive development. The cooling can be used in the treatment of Cerebral Vascular Accidents (CVA). This technology is currently being used in these cases and requires larger machines. The EMS Innovations ICE unit is a more portable unit which utilizes water to achieve therapeutic cooling rather than chemical agents which require special handling.

The ICE® System is appropriate for use in multiple environments allowing First Responders, Hospital Personnel and Medical Examiners to utilize one device for many applications. **Save time and money with one device that can help prevent and treat injury and illness as well as preserve human remains!**



All hoses have sealed connections



LCD Panel



Padded Bag Included with Unit



Top view

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## NEW FROM EMS INNOVATIONS

- **EASY TO USE:** Simply add water, set the thermostat and start cooling.
- **FLEXIBLE POWER OPTIONS:** Battery can be charged separately from the unit which allows for a second battery to be used while one is charging. The ICE® System can also be used with the included power cord for extended cooling applications.
- **ONE UNIT... MANY OPTIONS:** All accessories plug directly into this unit. All connections are leak-proof and all tubing is insulated for optimum cooling.
- **ACCURATE:** Monitor temperature and water flow with the LCD screen on the top of the unit.
- **CLEAN:** The ICE® System uses only water and is environmentally friendly. It requires no special chemical be stored and/or drained from the unit after use.



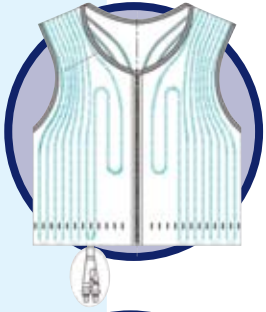
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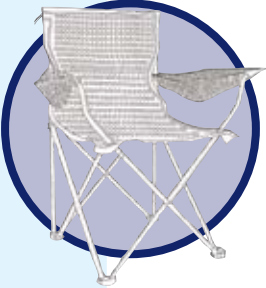
## • PREVENTION

### REHABILITATION VEST



This vest is an excellent rehabilitation tool. The active cooling of the circulating cooled water and evaporation relieves and prevents Hyperthermia. Up to 8 vests can be attached to the ICE unit for crew cooling. Great for response personnel, standby crews or anyone who may be subject to heat environments.

### REHABILITATION CHAIR



The Rehabilitation Chair provides a full-body cooling solution. The ICE® unit can adequately supply 4 rehabilitation chairs at one time. The need to transport, store or purchase block ice has been eliminated with the combination of this chair and the ICE® unit.



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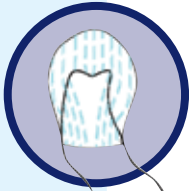
## • INTERVENTION

### RAPID THERAPEUTIC COOLING WRAP



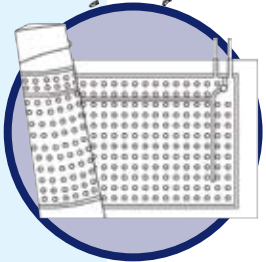
This single-use wrap may be useful in therapeutic Hypothermia for individuals who have suffered a cardiac arrest, stroke or hyperthermia. Multiple studies have shown that cooling the body shortly after such an incident significantly improves outcomes and reduces long-term neurological damage.

### RAPID THERAPEUTIC COOLING CAP



The Rapid Therapeutic Cooling Cap may be useful in therapeutic Hypothermia for infants suffering from problems during birth and for adults who have suffered a stroke (Cerebral Vascular Accident). These problems could threaten not only the life of a newborn but lead to slowing cognitive development.

### THERAPEUTIC COOLING PAD



The Therapeutic Cooling Pad may be useful in therapeutic Hypothermia and treatment of Hyperthermia. The Pad can be decontaminated and reused. It remains pliable even at its coldest temperature so, it can be placed under sheets, or wrapped around extremities for a consistent cooling solution. This Item is compatible with the MERCSys™.



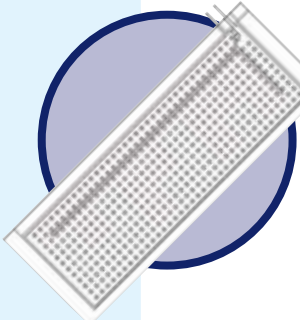
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## • PRESERVATION

### MORTUARY COOLING PAD & BAG



The Mortuary Cooling Pad can be put into a body bag to help preserve tissue in cadavers during transportation. The Pad can be decontaminated and reused. It is great when temperatures are high and can effectively preserve tissue. This system is designed for transport to a facility with extended preservation capabilities such as a refrigerated trailer or MERCSys™.



EMS INNOVATIONS ICE® unit  
Dimensions: 8.5" W x 16" H x 15.5" L

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