TENAQUIP

OCCUPATIONAL HEALTH AND SAFETY

PRESENTS...

HEAT STRESS PREVENTION



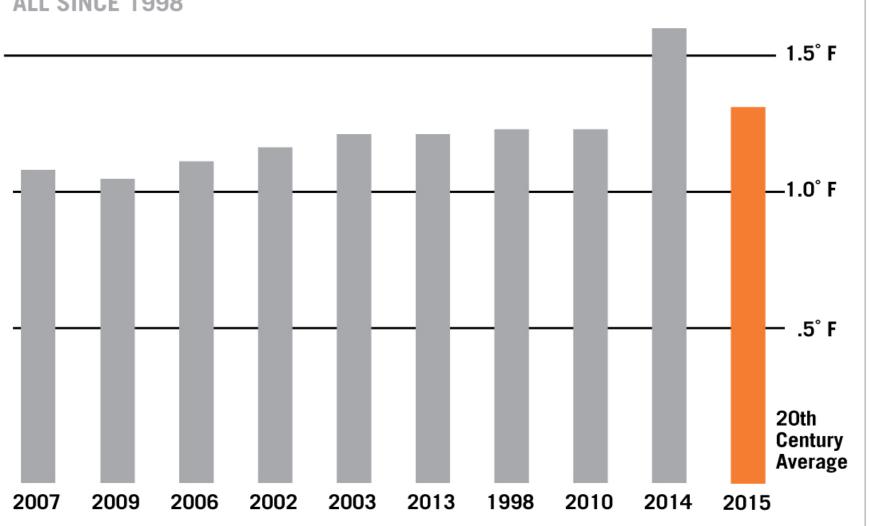






10 HOTTEST YEARS GLOBALLY

ALL SINCE 1998







HEAT STRESS OVERVIEW

THE REAL PROPERTY.

OVERVIEW

HEAT STRESS

- » Defining Heat Stress
 - » Heat stress occurs when the body's means of controlling its internal temperature starts to fail.
 - » Heat stress begins as body temps rise above 99.7°Fahrenheit.
 - Severe illness and injury occur when the body reaches temperatures of 104° Fahrenheit. Cellular (brain) damage can occur after only 30 minutes of elevated temperatures.





HEAT STRESS

WHAT IS A HEAT-RELATED ILLNESS?

- Heat-Related Illness (HRI) is an umbrella term for a variety of physical ailments resulting from work or exercise in hot or humid environments.
 - » Heat rash
 - » Heat cramps
 - » Heat exhaustion
 - » Heat stroke









SIGNS: Red blister-like eruptions/bumps. Itching sensation.

TREATMENT: Rest in cool place. Allow skin to dry.

PREVENTION: Shower after working in hot environment. Keep skin dry. Training and education.



SIGNS: Painful spasms usually in legs or abdomen. Possibly heavy sweating.

TREATMENT: Apply firm pressure and massage cramped area. Rest in cool place and drink water. Seek medical attention if cramping is severe.

PREVENTION: Adequate water and salt intake. Training and education.



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SIGNS: Headaches, weakness, mood change, feeling sick. Extreme sweating, pale clammy skin.

TREATMENT: Move to cool, shaded area and loosen heavy clothing. Drink cool water/electrolytes.

PREVENTION: Acclimatization. Drink plenty of water/electrolytes. Training and education.



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SIGNS: Pale skin, nausea, vomiting, confusion. Fever 104° or higher.

TREATMENT: Medical emergency. Call 911. Remove heavy clothing. Drink small amounts of water/electrolytes.

PREVENTION: Acclimatization. Drink plenty of water/electrolytes. Medical screening, training, and edu.



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RISK AWARENESS

CONTRIBUTING FACTORS

PERSONAL

- » Age, weight, and personal fitness
- » Dehydration and loss of electrolytes
- » Illness // fever
- » Medical conditions
- » Certain medicines
- » Diet // Alcohol
- » Inadequate tolerance or adaptation to heat







RISK AWARENESS

CONTRIBUTING FACTORS

ENVIRONMENTAL

- » High temps
- » Humidity
- » Direct sun or heat
- » Limited air movement
- » Hot equipment
- » Heat reflected from ground or objects
- » Physical exertion (i.e. work)
- Clothing and PPE









COSTS OF INACTION

- 1. Worker Injury or Fatality
- 2. Property Loss or Damage
- 3. Productivity Loss



= ALL resulting in potential monetary loss







BEST PRACTICE

- » WATER. REST. SHADE.
 - Note 1. WATER: Permit workers to drink water at liberty. Drink water every 15 minutes, even if you are not thirsty.
 - » 2. REST: Rest as often as needed. Establish provisions for a work/rest regimen in order to limit exposure time to high temperatures.
 - » 3. SHADE: The purpose of shade is to provide employees with a recovery period, which is detrimental to the prevention of heat illness. Acces to shade should be allowed at all times.







SHAX® 6000

POP-UP SERIES // HEAVY-DUTY COMMERCIAL

- y 10' x 10' foot-print, peak height of 14'
- 300D Polyester shell with PU & UV coatings
- » Silver coated canopy
- » Double-vented top for maximum air flow
- » Powder coated steel frame construction
- » ABS plastic sliders for convenient height adjustment no rust!
- » Reinforced corners & Reflective accents
- » Convenient oversized wheel bag for easy storage and transport
- » Heavy-duty ground stakes and ropes
- » Hi-Vis Lime Only
- y 46 lbs. (21 kg)
- » CPAI-84 Compliant





SHAX® 6100

UMBRELLA SERIES - UMBRELLA WITH SPIKE

- Size: 84" or 7' (2.1 m) diameter
- 300D Polyester top with PU & UV coatings
- Meets CPAI-84 Flame Resistant Standard
- Powder coated tenacious steel pole & ribs
- Tilt mechanism for full sun protection
- Vented top for maximum airflow
- Four height options with peak height of 92 inches // 8 feet // 2.4 meters
- Color: Hi-Vis Lime
- Includes over-the-shoulder, oversized storage bag with convenient pocket & ground spike

AVAILABLE NOW





CHILL-ITS® HYDRATION

2L HYDRATION PACKS

- » Durable 600D water-resistant rip stop polyester shell
- » 2L Bladder w/bite valve cover and neoprene sleeve
- » Zip-up cap cover keeps debris and contaminants at bay
- » Closed cell insulation keeps water cool for hours
- » TPE polymer bladder for water that tastes like water, not plastic
- » Breakaway straps, bite valve cover, screen printed cleaning instructions
- » H20 Capacity: 70 oz. (2 liters), approximately 2.2 hrs.





5156 LOW PREMIUM PROFILE HYDRATION

PACKS



5156 PREMIUM CARGO HYDRATION

PACKS





NEW! CHILL-ITS® HYDRATION

HYDRATION PRESSURE PUMP

- » FDA food grade silicone body
- » Elastic strap for secure grip
- » Valve cover keeps debris off bulb tip
- » Fits with all Ergodyne Hydration Packs
- » Sold separately









CHILL-ITS® 6700/6705/6710

EVAPORATIVE/ACRYLIC POLYMER – BANDANAS/ DEW RAGS

- » Acrylic polymers bring cooling power where you need it most.
- » Provides cooling comfort for extended periods
- » Activates in 2-5 minutes
- » Reusable
- » Hand wash
- » Blue, Stars & Stripes, Camouflage, Lime, Navy Western, Red Western and Flames











CHILL-ITS® FR

EVAPORATIVE SERIES/ACRYLIC POLYMER - 6700FR/6705FR/6710FR

#6700FR

- » Activated polymers bring cooling relief along with FR protection.
 - » 6700FR: Bandana w/tie
 - » 6705FR: Bandana w/breakaway hook & loop
 - » 6710FR: Triangle hat
- » 6.7 oz. modacrylic cotton blend fabric
- » Meets requirements of Performance Specification ASTM F2302 for flame resistance
- » Arc-rated; ASTM F1506 compliant (ATPV rating 7.1 cal/cm²); classified PPE category 1 (formerly HRC) according to NFPA 70E
- » Meta-Aramid FR thread
- » Soak in water for 2-5 minutes to activate
- » Remaining hydrated for up to 4 hours
- » Reusable, just re-soak













CHILL-ITS® 6602

EVAPORATIVE/PVA – 6602 COOLING TOWEL (NEW COLORS)

- » Advanced PVA material holds water without feeling heavy
- » Super-evaporative, feels significantly cooler than ambient air
- » Wear for hours, or wipe off for quick relief
- » Simply re-wet the towel to reactivate
- » Machine washable
- » COLORS: Blue, Hi-Vis Lime, Orange, Pink and Gray







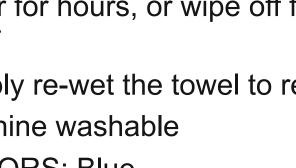


CHILL-ITS® 6603

EVAPORATIVE/PVA – 6603 COOLING TOWEL BAND

- » Advanced PVA material holds water without feeling heavy
- Super-evaporative, feels significantly cooler than ambient air
- y 1/3 the size of the Chill-Its® 6602 with the same cooling power
- Wear for hours, or wipe off for quick relief
- Simply re-wet the towel to reactivate
- Machine washable

COLORS: Blue









6700CT/6705CT/6710CT

EVAPORATIVE/PVA – BANDANAS WITH

COOLING TOWE

- » Advanced PVA material keeps you cool without the bulk of standard polymers.
- » Advanced PVA material activates easily when soaked in water for under a minute
- » Remains hydrated for hours of cooling relief
- » Reusable, just re-soak
- » Lightweight and low profile (fits perfect under hard hats or other helmets)
- » Machine Washable
- » One Size
- Colors: Solid Blue, Hi-Vis Lime, Red
 Western, Blue Western, Stars/Stripes,
 Camo, Flames







CHILL-ITS® 6670CT

EVAPORATIVE/PVA - HH NECK SHADE W/

» Keeps the sun off your confort
» Keeps the sun off your confort

- Advanced PVA material activates easily and quickly when run under water for a minute
- » Reusable, just re-soak
- » Remains hydrated for hours of cooling relief
- Hook and loop suspensions allow for easy attachment to hard hat

Patented, exclusively by

Ergodyne

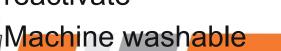




CHILL-ITS® 6602MF

EVAPORATIVE/MICROFIBER – 6602MF COOLING TOWEL

- » Microfiber material soft and absorbent
- » Super-evaporative, feels significantly colder than ambient air when wet
- » Chemical free
- » UPF 50+
- Wear for hours, or wipe off brow for quick relief
- Simply re-wet the towel to reactivate



COLORS: Blue, Hi-Vis Lime,





NEW CHILL-ITS®

EVAPORATIVE/MICROFIBER-LINE EXTENSIONS

- » Microfiber material is soft and absorbent when dry
- » Super-evaporative, when activated feels significantly cooler than ambient air
- » Lightweight and low profile, perfect for under hard hats
- » Chemical free and non-toxic
- » UPF 50+ for protection against UV rays
- » Machine washable





6700MF Tie Bandana



6705MF H&L Bandana



Triangle Hat



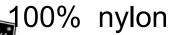
8935MF Ranger Hat



CHILL-ITS® 6665

EVAPORATIVE/ACYLIC POLYMER - COOLING VEST

- Soak in cold water for 2-5 minutes and enjoy cooling relief and comfort.
- » V-neck with zipper closure
- » Quilted nylon outer layer
- » Activated, polymerembedded fabric inside
- » Water-repellent liner and black cotton-poly elastic trim
- » Lightweight, durable, and washable



Gray, Lime





NEW CHILL-ITS® 6685

DRY EVAPORATIVE VEST

- » Fill vest with 13-20oz (400-600ml) water, distribute
- » Up to 3 days of cooling ability
- » V-neck with zip closure
- » Easy to use watertight cap
- » Lightweight, durable and washable
- » Patented
- M, L, XL, 2XL, 3XL, NEW 4XL







CHILL-ITS® ABSORPTIVE

HIGH-PERFORMANCE BAND/DEW RAG/CAP – 6605/6615/6630

- Hi Cool® moisture
 management performance
 fabric (wicking +
 breathability)
- » Comfortable to wear under hats, helmets or alone
- » Absorbent terry headband
- » Elastic band for secure fit
- » Reusable
- » Blue, Stars & Stripes, Camouflage, Navy Western,

ergodyneRed Western, Lime and

lames





CHILL-ITS® 6660

ABSORPTIVE - HARD HAT BRIM W/SHADE

- » 100% Polyester fabric
- » Universal design elastic inner rim to fit most hard hat style, design or size
- » Blocks the sun's rays keeping workers comfortable in environment absent from other forms of shade
- » Colors: Hi-Vis Lime & Hi-Vis Orange



INSTRUCTIONS FOR USE:

STEP ONE: Insert front brim of the hard hat into the 6660 front flap (the 6660 neck shade will be on the back side of the hard hat).



STEP TWO: Loop the 6660 black elastic straps through and around the hard hat interior suspension system and adjust using the straps hook & loop.



STEP THREE: Tighten the black elastic straps as needed to ensure the 6660 is secure.







NEW! CHILL-ITS® PHASE CHANGE

PHASE CHANGE VESTS – NEW DESIGNOCED 45 (NEW MODEL #s)

- Maintains constant temperature of 64°F / 18°C
- » Cooling lifecycle lasts up to four hours
- Comfortable cotton construction with adjustable hook & loop closure at shoulders and waist for great fit
- » Fabric meets ATPV of 7.1 cal/cm²
- » Non-toxic, non carcinogenic substance
- » Fabric carrier is washable in mild soap; line dry
- New design features include: a shorter, wider vest for better mobility that still addresses the core body zones, pen loop, and overall updated appearance

ne set of cool packs included with ergodyneach vest; additional packs sold







PLAN AHEAD KNOWLEDGE IS POWER

Heat-related illness and death are 100% preventable.

EDUCATION IS KEY!







ERGO RESOURCES

OVERVIEW

- » Heat Stress is recognized by major OH&S organizations as a real occupational hazard, so take action & be prepared!
- Ergodyne can provide an abundance of heat stress resources and product solutions to help you stay safe this summer.
 - » In-house training
 - » Webinars
 - » Informational card
 - » Technical white paper
 - » Heat Stress Poster
 - » Hazard Site Survey
 - » Sample Prevention Plan
 - » Hydration Sticker
 - » Website Collection
 - Ergodytes

Unique, patented PPE solutions

...and more to come!







THANK YOU!



