



Hydration & **Cooling**
CATALOGUE

Hydration & Cooling

The Effects of Extreme Heat

In medium to extreme heat, the body cools itself by perspiring or sweating. Sweat releases a lot more than just water from the body - it also releases a number of minerals (or electrolytes) such as magnesium, potassium, calcium and sodium. These electrolytes are essential for the body to maintain strong, healthy muscles, high concentration and energy levels.

Water makes up 70% of our muscles and about 75% of our brain. So it's not surprising that as minerals and water become depleted, muscles aches and cramps, fatigue and thinking can be affected.

Research shows that dehydration can diminish thought processes and memory, therefore adversely affecting quality of life. This should not be surprising considering that an imbalance in just one mineral can actually lead to substantial biochemical imbalances, so maintain and replacing the full array of minerals and trace minerals in the daily diet is important, particularly during times of heat stress.

It's proven that water alone cannot sufficiently replace lost electrolytes. Pure water is absorbed slowly and cannot be retained by the body

Four dominant heat disorders

Clinically - four dominant heat disorders are commonly described:

- Heat cramps
- Heat syncope
- Heat exhaustion
- Heat stroke

Whilst these four disorders are commonly known, it is not unusual for the criteria distinguishing them to be inconsistent.

Heat Cramps

Heat cramps are painful, involuntary contractions of the muscles associated with working in hot conditions. Heat cramps are most usually experienced in individuals who are dehydrated - in particular when their Core Body temperature has risen only a degree. As sweat losses are greater in the heat, susceptible individuals would logically be at increased risk of cramping when working or exercising in climates / conditions with high to extreme temperature and humidity.

Heat Syncope and Heat Exhaustion

Heat syncope (fainting) and heat exhaustion result from the inability of the body to control both its own core temperature and its circulatory demands.

Fainting occurs when there is reduced blood in the veins returning to the heart as a result of excessive pooling in the blood vessels on the periphery of the heart which compromises the effectiveness of the heart, making it impossible for an individual to maintain blood pressure.

Heat exhaustion results from an elevated core body temperature and signs of cerebral ischaemia (ie. a lack of blood to the front of the brain). An individual can also display symptoms of considerable stress response and impaired tissue perfusion.

Heat Stroke

Heat stroke is a severe condition resulting from breakdown of the body's ability to control both its own core temperature and its circulatory demands, resulting in a severe (ie greater than 40C) or prolonged rise in body temperature and consequent tissue injury.

Organ damage is widespread and results from both inadequate oxygen in the body tissue and a very high fever.

Acute injury to the heart, kidneys and liver may be permanent and approximately 40% of heat stroke cases could result in fatality.

Risk factors for heat illness

The risk of all forms of heat illness is greatly exacerbated by core body temperature rising. When temperatures are high to extreme, and combined with high humidity, fluid losses in sweat may exceed 1 litre per hour which exposes the individual to progressive heat illness a rise in core body temp.

Clearly, adequate management or control of rise in Core Body temperature is a critical factor in prevention of heat illness, as is hydration, which enhances the body's ability to regulate core temperature and circulatory functions.

The danger is that when the work is externally paced (eg by machinery, quotas, peer pressure etc), or the sustainable level of work is perceived as being unacceptably low, individuals will push themselves beyond the safe limited and be at risk of developing heat illness.

As Core body temperature increases, there is a sharp reduction in physical and

mental performance. There is an increase in heart rate and body temperature, and an increased perception of how hard the work/exercise feels, especially when exercising/working in the heat.

A rise greater than 1-2 degrees can heavily effect, brain function (decision making) and lead to the risk of nausea, vomiting, diarrhoea, and other gastro-intestinal problems during work/exercise

Of all the physiological causes of trouble that can cause early fatigue during work/exercise, any small rise in core body temperature is arguably the most important, if only because the consequences are potentially life threatening.

coolmitt™



Enhanced performance through muscle temperature control.

Our patented core cooling technology directly cools your muscles, allowing you to work out longer and with more intensity.

Sales@ippwa.com.au



How it works

You can cool your muscles from the inside to abate the rising temperatures and subsequent muscle fatigue. By cooling your core, you'll decrease muscle temperatures and optimize your performance!

01.

The CoolMitt™ device chills water to the ideal cool-but-not-too-cold temperature and circulates it to a cooling pad where you have placed your hand.

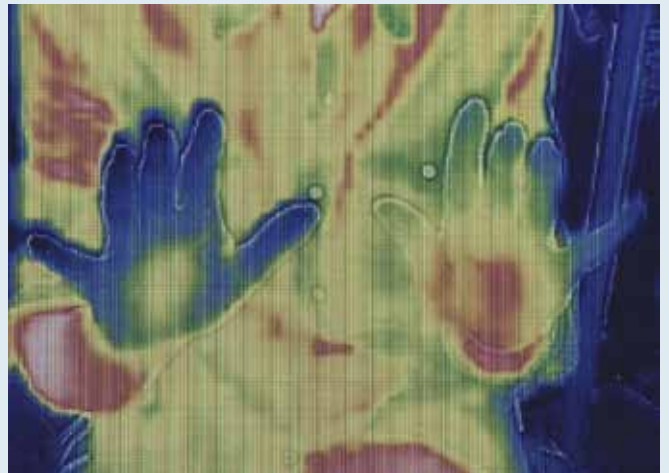
The palms of your hand are like radiators that exchange heat through the patented CoolMitt™ interface.



02.

This process quickly cools your blood, sending it directly to your heart and from there out to your muscles.

Within seconds, you will begin to reduce your muscle temperature, and your performance will improve immediately.



03.

Dramatically, your performance will improve.

When you strategically cool your blood between sets, or even use the CoolMitt™ device while exercising, you will see the benefits of Peak Performance through Muscle Temperature Control.



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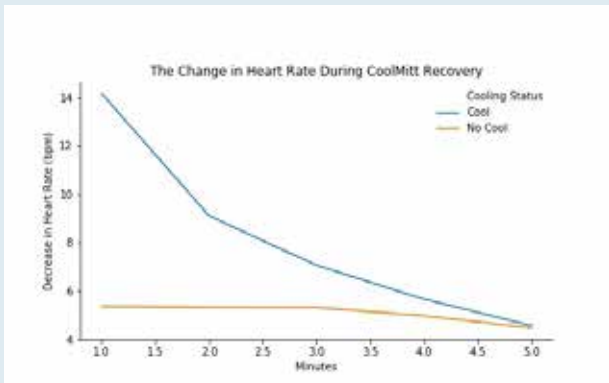
The science

Make the Most of Rehab: CoolMitt™ technology enables recover in as little as 5 minutes. CoolMitt™ palmar cooling enabled firefighters to recover twice as fast as passive cooling.

CoolMitt™ enables recovery more than twice as fast.

In the first two minutes of recovery, CoolMitt™ device users recovered 118% faster than passive cooling. In five minutes of recovery, CoolMitt™ technology allowed for a heart rate recovery of 41 bpm compared to 25 bpm for passive cooling.

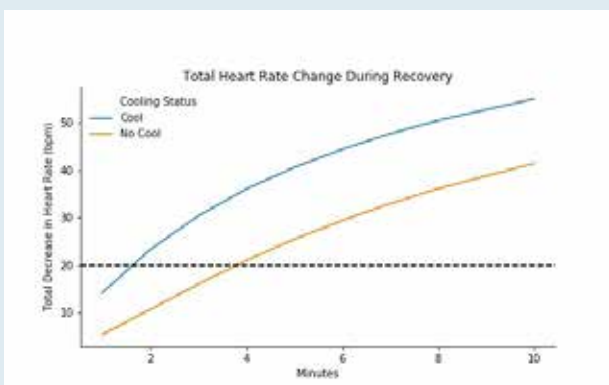
Cooling quicker during recovery is healthier and easier on the body and allows for a quicker return to action.



Stronger recovery, faster.

It took only two minutes for firefighters using CoolMitt™ units to decrease their heart rate by 20 bpm, compared to four minutes for passive cooling. This advantage continued throughout the recovery period, with passive cooling for 10 minutes failing to reduce heart rate by 40 bpm.

The CoolMitt™ device, on the other hand, was able to reduce heart rate by 40 bpm in less than 5 minutes.



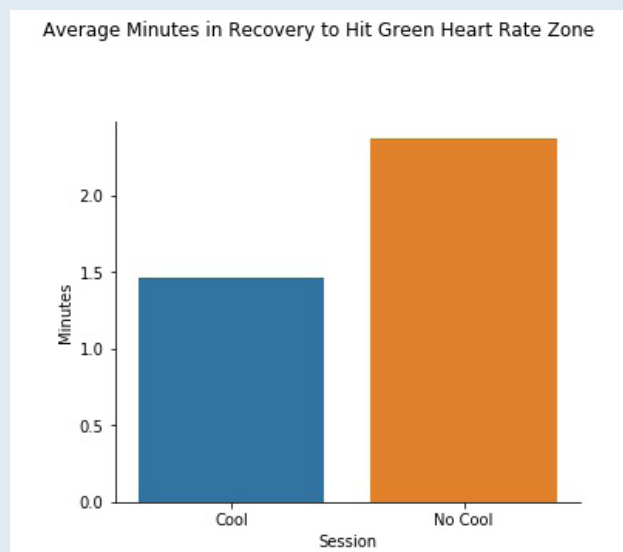
More time in “Green” Zone, less time in “Red”.

Firefighters spent more time during the entire training exercise in the Green Zone (HR<65% age adjusted max) and less time in the Red Zone (HR>85% age adjusted max) when CoolMitt™ cooling during rehab sessions.



Less time to reach the “Green” Zone during rehab.

During rehab sessions, firefighters using CoolMitt™ devices reached the Green Zone 67% faster on average than firefighters not using CoolMitt technology.





Background

10 firefighters from the Homewood Fire Department in Homewood, Alabama conducted training sessions on March 22 and March 24, 2022. Training protocols were identical both days. On the 22nd, CoolMitt™ devices were used to cool half the firefighters during rehab sessions with the other half receiving no treatment.

On the 24th, those groups switched so that those that previously used CoolMitt™ devices did not and vice versa. Zephyr™ BioModule Performance Systems by Medtronic were utilized to capture physiological and biomechanical data each day. Temperatures both days were cool (mid 50s and 60s) with low humidity, low-mid UV indices and windy.



Training Exercises

The firefighters were in full PPE with SCBA and mask breathing off the bottle. These sessions included three active evolutions of 20 minutes with 20 minutes of rest between evolutions. The 20-minute active periods included:

Search and rescue operations, victim rescue and removal, and a hose deployment in a two-story burn building (not heated or smoked).

Once the group had completed burn building tasks, they executed a consumption course for the remainder of the 20-minute period.

The consumption course included:

- Drive Keiser sled with dead blow hammer
- Unroll then roll a 50ft section of 3" fire hose
- Hoist 50 lb weight to the top of three Connex boxes, hand over hand, up and down
- Carrying the 50ft of 2 1/2" hose bundle to the top of the training tower and back down
- Drag a large truck tire attached to a section of 2 1/2" hose a total of 75ft on concrete.
- Crawl through a 36" 20ft long plastic pipe

Rehab/Recovery

Upon completion of the 20-minute exercise, the firefighters removed PPE, unzipped bunker gear and rehabbed in a shaded trailer for 10 minutes either cooling with CoolMitt™ devices or without. Water was provided and available to all without restriction. After 10 minutes of cooling or non-cooling rehab, the firefighters geared back up, changed bottles and went back into the burn building to begin their next 20-minute session.



°coolmitt™



CONTACT US

Get in touch with the CoolMitt™ team

Exclusively available through IPP

Sales@ippwa.com.au

Australian Partner

WHAT IS DEHYDRATION

It only takes 1% of dehydration to result in lowered productivity!

Most of us think of dehydration as a summer problem. The days are longer and warmer, you're sweating more. To compensate, you hydrate yourself with THORZT and a balanced diet. What many people don't realise, however, is that it's just as easy to become dehydrated in the winter.

THORZT is the hydration solution for the weekday worker and the weekend warrior so it doesn't matter if you are on a construction site, the footy field, about to ski down a mountain or sitting in an office with the air conditioner on, THORZT has a product for you.

HOW DOES DEHYDRATION OCCUR

Dehydration occurs when fluids and nutrients are lost from the body at a faster rate than they are replaced. This results in an imbalance of the essential components of an efficiently working body. If you don't replace the lost fluids and minerals (electrolytes), you will become dehydrated. Blood is approximately 80% water and is responsible for the efficient transportation of vital nutrients around the body. Any imbalance reduces the efficiency of our bodies.

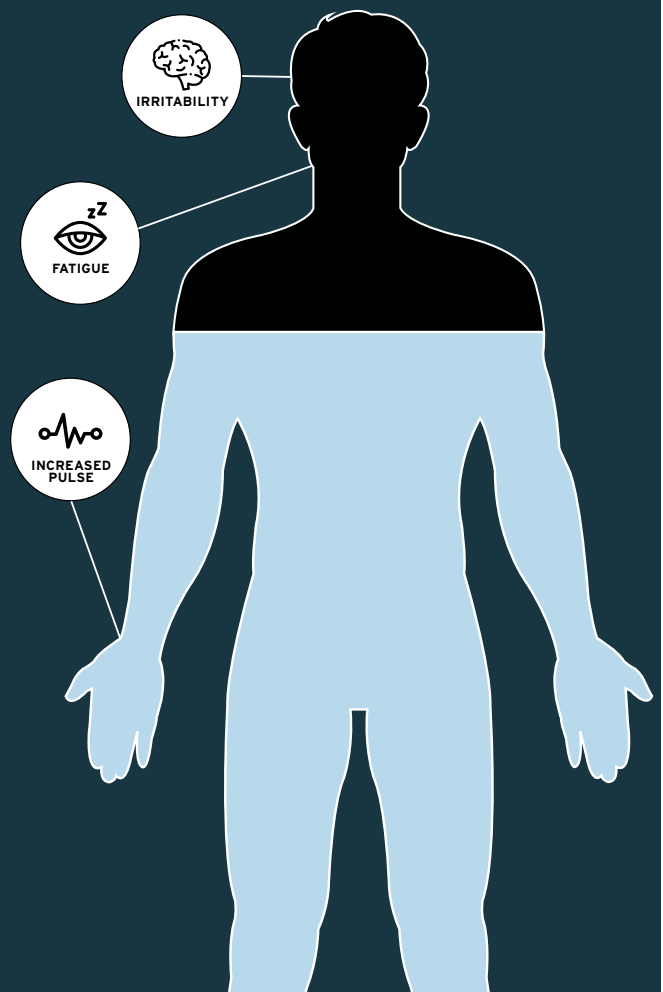
Symptoms of dehydration are difficult to determine in the early stages, but can include dryness of the mouth and thirst, dry warm skin, dizziness, or cramping in the arms and legs.

Darker urine and thirst are the first signs of dehydration as it is your body's way to reduce fluid lost and increase water intake.

AS DEHYDRATION INCREASES, SIGNS MAY INCLUDE:

- IRRITABILITY
- DROWSINESS
- IRRATIONAL THINKING
- SKIN INELASTICITY
- FACIAL FLUSHING
- INCREASED PULSE RATE
- DARKER URINE WITH AN ODOUR
- PASSING LESS URINE THAN NORMAL
- SUNKEN EYES
- FATIGUE (FEELING TIRED)

50-60%
OF WORKERS REPORT
TO WORK IN A MILDLY
DEHYDRATED STATE⁽⁴⁾



STAGES OF DEHYDRATION

Dehydration adversely affects work productivity, safety and morale.⁽¹⁾ Loss of fluids can affect cognitive abilities, reduce performance and slow reaction times. ^(2,3,4) This can lead to reduced output and careless work practices which may contribute to serious accidents in the workplace.

1%

DEHYDRATION

It only takes 1% of dehydration to result in lowered productivity! ^(9, 4)

2%

DEHYDRATION

At 2% dehydration, heart rate increases by 8 beats per minute (bpm) which increases perception of effort and reduces body performance by up to 30%. ^(2, 9)

2%

DEHYDRATION

At 3% dehydration, heart rate increases by 12bpm and performance is reduced by 25-50%. Reaction time is also slowed to levels similar to that of having a 0.08 Blood Alcohol Content (0.03 above the legal driving limit). ^(4,9)



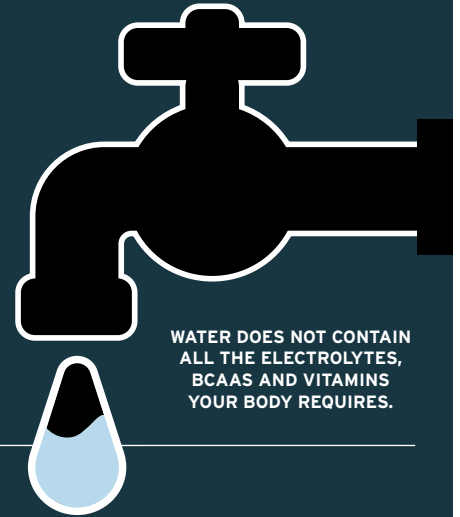
STAYING HYDRATED

In thermally stressful environments (like mine sites) where workers can sweat anywhere from 1L - 2.5L per hour, (3, 4, 11) a specially formulated mixture of electrolytes is required to replace fluid losses and re-establish the correct fluid-electrolyte balance (9,10).

How well you will be hydrated will ultimately depend on the amount of fluids you consume! More fluids = more hydration! Other factors will then affect how well you stay hydrated:

- The rate at which you drink
- The composition of the drink (sugars, electrolytes, proteins, vitamins).

(7, 8, 12)



THE THORZT FORMULA

Electrolytes

Electrolytes are naturally occurring essential minerals that control osmosis or movement of water within the body. Electrolytes also help maintain the acid-base balance required for normal cellular activities.

Common electrolytes include Potassium, Calcium, Sodium, Chloride and Magnesium. The body depends on electrolytes to perform vital functions by sending electrical signals from the brain to nerves that activate your muscles to perform mechanical functions.

Maintaining this electrical capability and voltage output of cellular communication is dependent on electrolytes. Most bodily functions require electrolytes, especially during neuromuscular processes. When the body loses fluid and electrolytes, both must be replaced for the body to rehydrate, retain fluid and return to efficient functioning before heat illness sets in. (5, 8, 13)

A common result of strenuous physical work or exercise is electrolyte loss. According to research, a deficiency in electrolyte may reduce physical performance and capacity as well as contribute to muscle cramps and weakness and injuries. (7, 13)

Sodium

Sodium is directly related to the control of body water, enhancing water absorption. Sodium also stimulates thirst, which increases voluntary drinking. The greater the sodium concentration of the hydration beverage the greater the restoration of fluid balance.

Potassium

Also aids in water absorption (lesser extent than Sodium) assists in muscle cramping.

Magnesium

Helps hold onto Potassium - water absorption. Allows the cell to use carbohydrates and amino acids. Assists in muscle cramping.

Zinc

Help maintain structural integrity of proteins and help regulate gene expression.

Branch Chain Amino Acids

Branch Chain Amino Acids play an essential role in protein synthesis and muscle building as well as recovery, accounting for over a third of Essential Amino Acids.

The addition of amino acids to carbohydrate-electrolyte drinks has been shown to increase fluid retention 15% greater than carbohydrate-electrolyte-only drinks, and 40% greater than water. (12)

Vitamins

The B vitamins are also important for a normal appetite, good vision, healthy skin and nervous system, and red blood cell formation. They function as coenzymes that help the body obtain energy from food and drink. The body needs vitamin C, also known as ascorbic acid or ascorbate, to remain in proper working condition. Vitamin C benefits the body by holding cells together. Since our bodies cannot produce or store vitamin C, an adequate daily intake of this nutrient is essential for optimum health. (15)

LOSS OF FLUIDS

LOSS OF FLUIDS CAN AFFECT COGNITIVE ABILITIES, REDUCE PERFORMANCE AND SLOW REACTION TIMES (2, 3, 4)

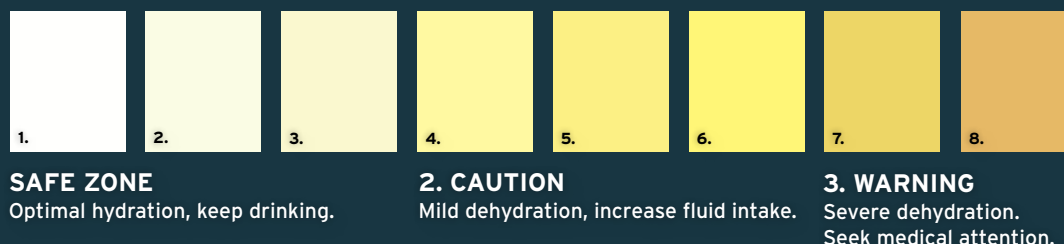
HOW TO MONITOR HYDRATION IN 3 EASY STEPS!

It is important to monitor your hydration to ensure you stay hydrated throughout the day/night.

1.

MONITOR URINE COLOUR

The following chart is a guide that outlines when to hydrate based on the colour of urine. If your urine matches the colours numbered 1,2, or 3 you are hydrated, but keep drinking fluid. If your urine matches the colour numbered 4 through 8 you are dehydrated and need to drink far more fluid.



2.

MONITOR FLUID INTAKE



Drink 250mls of water every 15 minutes in warm environments.
Outdoor Workers: For every 3 cups of water, drink 1 cup of THORZT (3:1)
Indoor Workers: For every 6 cups of water, drink 1 cup of THORZT (6:1)
 Increase electrolyte intake when experiencing extreme sweating

3.

MONITOR YOUR SIGNS & SYMPTOMS OF DEHYDRATION



Key signs of dehydration:

- Reduced performance
- Slower reaction times
- Thirst
- Weight loss

Each kilogram (kg) of weight loss is equivalent to approximately one litre (L) of fluid.

Hydration Thorzt

99% SUGAR FREE

HYDRATION POWDERS



CHOOSING THE RIGHT ELECTROLYTE DRINK

THORZT is a great tasting, scientifically proven mix of cutting edge vitamins, minerals and amino's. All formulated for rapid re-hydration. Designed to maintain mind and body function at a cellular level, THORZT can boost your physical and mental potential, relieve muscle pain, cramps and spasms, reduce anxiety and sleep disturbance and improve the body's stress response.



MADE IN AUSTRALIA

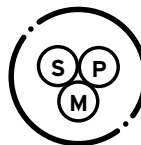
	HYPOTONIC	ISOTONIC	HYPERTONIC
% CARBOHYDRATES	Less than 4%	4 - 8%	Greater than 8%
OSMOTIC PRESSURE	Lower than bodily fluids	Same as bodily fluids	Greater than bodily fluids
RATE OF ABSORPTION	Faster than water	Same as water	Slower than water
BEST USED FOR	Rapid rehydration	Rehydration / Energy	Energy



SUGAR FREE



CAFFEINE & GLUTEN FREE



PROPRIETARY ELECTROLYTE FORMULA*

*Sodium, potassium and magnesium formula



MAKES 600ML

99% SUGAR FREE POWDERS

HC TH SSSFMIX

99% Sugar free solo shots

- 99% Sugar Free
- Available in 5 delicious flavours - Blue Lemonade, Lemon Lime, Orange, Tropical, Wild Berry
- Gluten and caffeine free
- Proprietary electrolyte formula inc. Sodium, Potassium and Magnesium
- Proprietary blend of B and C group vitamins, L-Glutamine and essential Branch Chain Amino Acids
- 3g solo shot sachet makes 600ml
- Pack Qty: 50 x 3g/600ml sachets per pack
- Ctn Qty: 10 x packs of 50 x 3g/600ml sachets



HC TH SSSFB



HC TH SSSFL



HC TH SSSFOR



HC TH SSSFT



HC TH SSSFWB



Hydration Thorzt

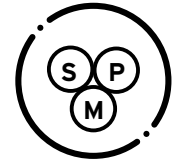
LIQUID CONCENTRATES



LOW SUGAR



CAFFEINE & GLUTEN FREE



PROPRIETARY ELECTROLYTE FORMULA*

*Sodium, potassium and magnesium formula



MAKES 10 - 20L

HC TH LC10MIX

- LOW SUGAR CONCENTRATES
- Low in sugar
- Gluten and caffeine free
- Available in 5 delicious flavours- Peach Iced Tea, Lemon Lime, Orange, Pineapple Blast, Wild Berry
- Proprietary electrolyte formula inc. Sodium, Potassium and Magnesium
- Proprietary blend of B and C group vitamins, L-Glutamine and essential Branch Chain Amino Acids
- 600ml bottle makes 10L, or up to 20L when mixed with ice in our 20L cooler
- Ctn Qty: 10 x 600ml bottles



HC TH LPD

- Liquid Pump Dispenser to suit LC10 range
- The THORZT Liquid Pump Dispenser is designed specifically to work with the THORZT Liquid Concentrate bottles to make the optimum mix in our bottles and coolers.
- Up to 1 pump per 250ml of water
- Pump sold separately



Hydration Thorzt

Initially trialled in 2003 with athletes and studied prior to the 2008 Beijing Olympics, (6, 14) the ingestion of ice was shown to be a superior method of lowering core body temperature than fluids served at 4°C.

In addition to the cooling benefits, crushed ice ingestion also improved endurance performance in the heat.

The cooling benefits observed for elite athletes have been replicated in occupational settings. Firefighters wearing protective clothing while working in an extremely hot fire cell were able to lower their core body temperature more effectively when they consumed crushed ice during a rest break than the standard practice of resting in the shade with a cold drink. (16)

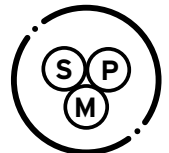


ISOTONIC



- Icy Pole Mixed Flavour Pack
- Low in sugar
- Gluten and caffeine free
- Proprietary electrolyte formula inc. Sodium, Potassium and Magnesium
- Available in 5 delicious flavours - Blue Lemonade, Lemon Lime, Orange, Tropical, Wild Berry
- When frozen, simply snap and twist the Icy Pole, breaking it in half
- Pack Qty: 10 x 90ml tubes per pack
- Ctn Qty: 15 x packs of 10 x 90ml tubes

HC TH ICEMIX



*Sodium, potassium and magnesium formula



Hydration Sqwincher



Sqwincher Qwik Stik Lite

SC SQ 0100 - Flavours Orange, Mixed Berry, Lemonade, Lemon Lime, Grape, Assorted Flavours
Single-serve pouch - simply pour directly into 600ml bottled water. Just pour, shake and drink. Sugar free for diabetics or carb conscious consumers. Low in sodium, tastes great, provides fast hydration & helps prevent muscle cramps.



Sqwincher® SQUEEZE ICE BLOCK 10 PACK

SC SQWPX002 - Mixed Flavours
Sqwincher® is an electrolyte replacement drink scientifically formulated to safely replace mineral salts and replenish fluids at optimal absorption rates, which are depleted as a result of dehydration or through physical exertion. It prevents or reduces the severity of heat stress disorders plus quenches thirst. Sugar free, low in sodium, caffeine free, great tasting. Simply add to a 5 litre cooler, fill with cold water & ice to enjoy fast hydration. Low cost per serve, keeps workers hydrated and productive.



Sqwincher Squeeze Pops

SC SQ 159200201 - Assorted Flavours
Sqwincher's scientific developed formulation is absorbed significantly faster than water alone into the body, allowing the body to replenish the electrolytes & minerals needed for effective rehydration. With Sqwincher Squeeze, you don't have to settle for plain ice any more. Now you can add a little frozen flavour to your break with Sqwincher Squeeze. Perfect for the First Aid Room freezer for workers experiencing dehydration & heat stress. Cools core body temperature fast.

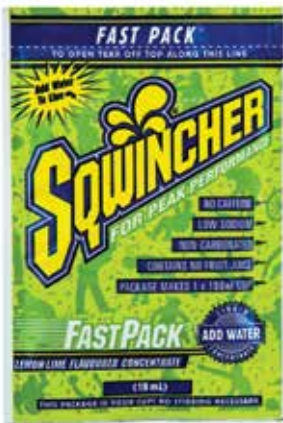
Hydration Sqwincher



Sqwincher 9.46L Powder concentrate

SC SQ 010644 - Flavours Lemon Lime, Mixed Berry, Lemonade, Orange

Sqwincher is a safe, effective and proven rehydration drink for workers, that helps prevent muscle cramps and provides fast hydration. It helps prevent heat stress related accidents & illness and is a great tasting & low cost way of keeping workers productive in hot working conditions. Simply add one powder pack to an 11 litre cooler (SQ1683) to make a hydration station that will keep fluid cold for up to 12 hours.



Sqwincher Fast Pack

SC SQ 0066 - Flavours Lemon Lime, Orange, Tropical Cooler, Wild Berry, Mixed case

- Just add water to pack and you've got a single serving of fluids and electrolytes. Packet can be used as a drinking cup. Reduce heat stress and dehydration with these convenient drink packs. Their handy size makes them less bulky than transporting a cooler, but big enough to quench your thirst.
- Makes 180ml.



Sqwincher 2L concentrate

SC SQ 0028 - Flavours Lemon Lime, Orange, Wild Berry, Tropical Cooler, Grape, Lemonade, Assorted One 2L bottle makes up 20L. The most economical package option in the Sqwincher range. RRP of made up Sqwincher works out to be approx \$1.50 per litre. One of the most affordable electrolyte replacement drinks in the country. Add one 2 litre Sqwincher concentrate bottle to a 20 litre Cooler and fill with water & ice to make up a Hydration Station that will keep fluid cold for up to 12 hours.



Sqwincher 5lt Sugar Free Powder

SC SQ W5L - Flavours Orange, Lemon/Lime Sqwincher® is an electrolyte replacement drink scientifically formulated to safely replace mineral salts and replenish fluids at optimal absorption rates, which are depleted as a result of dehydration or through physical exertion. It prevents or reduces the severity of heat stress disorders plus quenches thirst.

- Sugar free, low in sodium, caffeine free, great tasting. Simply add to a 5 litre cooler, fill with cold water & ice to enjoy fast hydration.
- Low cost per serve, keeps workers hydrated and productive.



Sqwincher QwikServ

SC SQ 060902 - Flavours orange, Lemon Lime Prevents dehydration, heat stress and muscle cramps. Simply Pour into 600ml bottled water. Just pour, shake and drink !!! Low in sodium. Single-serve sachet. 8 Qwik serves per pack.



Information

For more information on our range of hydration or to place an order contact IPP on **08 9330 6355** or visit www.ippwa.com.au



Industrial Protective Products (WA)
Supporting Better Products



hydration



Safer & healthier hydration on the work site, particularly in extreme heat.

Electrolyte

- 01 Scientifically formulated to reduce fatigue & improve performance.
- 02 Contains complex fast & slow release carbohydrates for immediate and sustained energy.
- 03 Balanced sodium content replaces salt lost in sweat.
- 04 A pH of 6 reduces tooth erosion.
- 05 All natural fruit flavours.
- 06 No artificial colours, flavours or preservatives.
- 07 No lingering after taste.
- 08 Pour sachet contents into a bottle. Add 500ml of water. Shake & enjoy.
- 09 Recommend 2 sachets per worker per shift.

NEW PRODUCT AVAILABLE

If you have any questions please email sales@ippwa.com.au or visit eniq.com for further information.



Our Accreditations

eniQ products have been independently tested and approved by:



MADE IN WA FROM LOCAL AND IMPORTED INGREDIENTS



Wellness Powered by Intelligence™



Hydration Thorzt



HC TH DB750SS-S HC TH DB750SS-BK HC TH DB750SS-BL

-  ENVIRONMENTALLY FRIENDLY
-  KEEPS COLD FOR 24HRS
-  KEEPS HOT FOR 12HRS
-  VACUUM INSULATED DOUBLE WALLS
-  BPA-FREE NON-TOXIC





STAINLESS STEEL DRINK BOTTLES

750ml Stainless Steel Drink Bottle Stainless Steel

- Vacuum insulated double walls
- Made of food grade 18/8 stainless steel
- Eco-friendly
- Shockproof and shatter proof
- Rust and leak proof
- BPA-free non-toxic
- Keeps cold up to 24 hours
- Keeps hot up to 12 hours

Coolers

Independent testing showed THORZT coolers were able to maintain superior cooling results compared to that of other brands on the market. Tested for up to 8hrs at 40 deg heat, the temperature in the coolers rose by less than 1°C. THORZT's unique insulation properties were able to deliver superior results, keeping your fluids cooler for longer.

-  ENVIRONMENTALLY FRIENDLY
-  BPA FREE
-  ROBUST & STURDY DESIGN
-  SUPERIOR INSULATED COOLERS



21L Icebox
Robust design with wide base for stability
Superior insulation to maintain coolness
Impact resistant exterior
BPA-free
HC TH IB21B



HC TH DC025B
2.5L Drink Cooler
Robust design with wide base for stability
Superior insulation to maintain coolness
Screw top lid to give wide access for ease of cleaning and filling with ice. Easy pour spout
Detachable drinking cup (400ml). Impact resistant exterior. BPA-free.

Drink Bottles



HC TH DB800

Sports Drink Bottle 800mL

Wide access for easy insertion of ice cubes
Extra 200ml of space for ice or lighter mix taste
Side window to monitor drink levels
Easy to grip body.
BPA-free
Simply add one THORZT Solo Shot sachet to the drink bottle for the perfect mix and thirst quenching experience



HC TH BP

Bottle Pouch

Ideal for THORZT 800ml and 750ml drink bottles
Riveted at stress points for maximum strength
Double stitched for durability
Retro-reflective strip for increased visibility
Fits most belt sizes up to 70mm width



BOTTLE POUCH BELT

Used to hold your water bottle in the THORZT Bottle Pouch
Allows your THORZT water bottle to be easily accessible and by your side at all times. Made of durable polyester webbing. Incorporates clip closure and adjustability for most wearers.

HC TH TBP-B



HC TH DC10B
10L Drink Cooler
 Robust design with wide base for stability
 Superior insulation to maintain coolness
 Screw top lid to give wide access for ease of
 cleaning and filling with ice. Screw tap for
 consistent flow and drip free shut off. 10 litre
 capacity. Impact resistant exterior. BPA-free



HC TH DC20
20L Drink Cooler
 Robust design with wide base for stability
 Superior insulation to maintain coolness
 Screw top lid to give wide access for ease of
 cleaning and filling with ice. Screw tap for
 consistent flow and drip free shut off. 20 litre
 capacity. Impact resistant exterior. BPA-free.



HC TH DC55B
55L Drink Cooler
 Robust design with wide base for stability
 Superior insulation to maintain coolness
 Screw top lid to give wide access for ease of
 cleaning and filling with ice. Screw tap for
 consistent flow and drip free shut off. 55 litre
 capacity. Impact resistant exterior. BPA-free.



HC TH DC05B-NT
5L Drink Cooler - No Tap
 Robust design with wide base for stability
 Superior insulation to maintain coolness
 Dual screw top lid to give wide access for ease of
 cleaning and filling with ice. Easy pour spout
 Detachable drinking cup (400ml)
 Impact resistant exterior. Internal Volume
 Markings for accurate pour/measurement when
 mixing electrolytes. BPA-free.



5L Drink Cooler
 Robust design with wide base for
 stability. Superior insulation to
 maintain coolness. Dual screw top
 lid to give wide access for ease of
 cleaning and filling with ice. Easy
 pour spout. Detachable drinking
 cup (400ml). Recessed push
 button tap to protect and reduce
 damage. Impact resistant exterior.
 Internal Volume Markings for
 accurate pour/measurement when
 mixing electrolytes. BPA-free.

HC TH DC05B | HC TH DC050

Accessories



HC TH DC05T
 Taps to Fits Models:
 DC05B
 DC050



HC TH DC20T
 Taps to Fits Models:
 DC10B
 DC20
 DC55B



DRINKING CUPS TO FIT MODELS:
 DC025B



DRINKING CUPS TO FIT MODELS:
 DC05B
 DC050
 DC05B-NT



Lids to Fit Models:
 DC025B



LIDS TO Fit Models :
 DC05B, DC050, DC05B-NT

Hydration CamelBak



CAMELBAK Podium® Chill™

HC CB 52236 - EA - Carbon Podium chill bottle
CamelBak Podium® Chill is a high performance insulated sport bottle that keeps your water cooler longer. A double-walled bottle construction uses closed cell foam technology to keep your water cold twice as long as a standard bottle. The patented spill-proof Jet Valve™ allows the user to hydrate immediately without having to open or close a drinking interface and the bottle's streamlined ergonomic design offers excellent squeezability without compromising bottle grip. The large aperture of the drinking nozzle generates an exceptional water flow rate and is easy to remove for thorough cleaning. The Podium® Chill also has a lockout dial with easy to read graphics for leak-proof transport.



CAMELBAK NEW All Clear Pre Filter

HC CB 90785 - Pre Filter
Strain out larger sediment particles prior to purification with the All Clear™ Microbiological UV Water Purifier. Designed to be used for the All Clear™ Microbiological UV Water Purifier to strain out larger sediment particles prior to purification.



CAMELBAK eddy™ Insulated .75L

SC CB 53849 - A spill-proof bottle that won't sweat all over your desk. Our classic eddy™ with double-walled hydration keeps your drink cool longer – and reduces condensation on the outside of the bottle. The bite valve also makes it easy to flip, bite and sip wherever you go. Redesigned cap and bite valve provide faster flow and enhanced durability. Double-Wall bottle keeps water cool and reduces condensation. Flip, Bite and Sip. No tipping required (though possible: just remove the straw). Durable and spill-proof. Easy to carry: Integrated loop handle makes it easy to clip a carabiner or carry with the crook of a finger. 100% free of BPA and BPS. Wide-mouth opening is easy to fill with ice and water and a breeze to clean. CamelBak® Big Bite™ Valve is compatible with CamelBak® eddy™ and CamelBak® Groove® bottles. CamelBak® Got Your Bak™ Guarantee: If we built it, we'll Bak it™ with our lifetime guarantee.



CAMELBAK NEW VOLUME FLOWMETER 50112

SC SQ 90805 - Convert any CamelBak® reservoir into an intelligent hydration system with the CamelBak® Flow Meter™. Water Gauge: Measure how much water you drink, and how much is left in your reservoir. Programmable: Monitor personal hydration goals. Easy to Integrate with any CamelBak® Reservoir. Includes: Fluid Sensor, Display, Battery and installation and operating instructions. CamelBak® Got Your Bak™ Guarantee: If we built it, we'll Bak it™ with our lifetime guarantee.



CAMELBAK Podium® Ice™

HC CB CB1872402062 - Oxford Blue
Keep your water cold 4X longer! We re-engineered our legendary Podium® Ice™ to be the ultimate bike bottle. With unmatched insulation properties, high flow rate and easy cleanability, Podium Ice stands second to none. Aerogel Insulation keeps water cold four times as long as regular sport bottles (610ml) water capacity. Innovative, self-sealing Jet Valve™ eliminates splatters and spills.



CAMELBAK NEW VOLUME FLOWMETER KIT 50113

SC SQ 90769 - Add intelligent hydration to your Antidote® reservoir, with just one click.. Flow Meter™ gauges how much water you drink, and how much is left in your reservoir. Programmable interface lets you set and monitor personal hydration goals. Insulated cover keeps the heat and cold out. Clicks onto any CamelBak reservoir with Quick Link™ system. CamelBak® Got Your Bak™ Guarantee: If we built it, we'll Bak it™ with our lifetime guarantee.



Hydration CamelBak



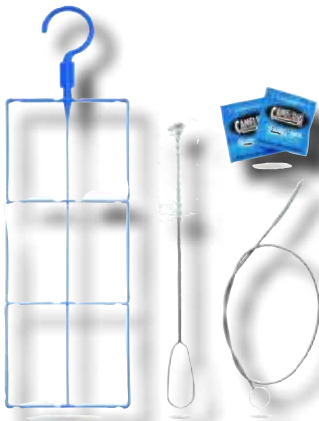
Camelbak 2 litre

B 30072 - High Visibility Orange

to-fill and clean wide-mouth OMEGA® opening, and durable Water Beast™ material, leak-proof cap, insulated PureFlow™ tube, patented Big Bite™, HydroLink™ Exit Port and Drink Port, HydroLock™ patented flow control NEW! Tear-away harness helps prevent accidents, New-Integrated cover keeps OMEGA™ clean and protected, Includes HydroLink™ Modular Action System with positive shut-off HydroLock™, reflective strips on pack and harness stand out day or night. Closed cell insulation keeps water cool for hours, Valve Cover keeps Bite Valve clean from dirt and grime, External fill via the OMEGA Reservoir makes filling and cleaning fast and easy.



Camelbak Cleaning Tablets
SC CB 60061 - 8-pack of tablets
Periodic cleaning with CamelBak® Cleaning Tabs™ keeps reservoir and tube free from taste and odor. CamelBak® Cleaning Tabs™ work in just 5 minutes for a thorough cleaning.



CAMELBAK CLEANING KIT
SC SQ 60112 - Includes reservoir brush, tube brush, two cleaning tablets, and customizable reservoir dryer. Reservoir dryer compatible with the Long-Neck and OMEGA® reservoirs only.
Two brushes and cleaning tabs keep your reservoir taste-free
Dry your reservoir quickly and completely with the hanging reservoir dryer.
CamelBak® Got Your Bak™ Guarantee: If we built it, we'll Bak it™ with our lifetime guarantee.



Sqwincher 20L cooler
SC SQ 01
• Sqwincher industrial strength coolers are made to last. Keeps fluid cold for hours.
• High visibility yellow.
• All plastic rust proof construction with UV inhibitors to prevent fading.
• Mix one 2 litre bottle of Sqwincher concentrate into the 20 litre Cooler, then add water and ice to make up a hydration station that will keep fluid cold for up to 12 hours.
• Each serve in this form can cost less than an equivalent serve of milk.
• An ideal re-hydration station for your workers.



CAMELBAK HYDRO-LINK CONVERSION KIT
SC SQ 010644 - Flavours Lemon Lime, Mixed Berry, Lemonade, Orange
Sqwincher is a safe, effective and proven rehydration drink for workers, that helps prevent muscle cramps and provides fast hydration. It helps prevent heat stress related accidents & illness and is a great tasting & low cost way of keeping workers productive in hot working conditions. Simply add one powder pack to an 11 litre cooler (SQ1683) to make a hydration station that will keep fluid cold for up to 12 hours.



Willow Water Bottle
• Capacity: 2,5L no tap and 5L with tap.
• Smaller size is ideal for work day.
• Features sturdy cap that functions as a drinking cup
• Insulated with dense polyurethane to keep drinks cooler for longer
• 10 year guarantee

SC WIL 20179 - 5L

SC WIL 20178 - 2.5L



Hydration Thorzt

HYDRATION BACKPACKS



HC TH BP250 / HC TH BP25Y



COLD CELL INSULATION



ADJUSTABLE STRAPS



RETRO REFLECTIVE TAPE



QUICK RELEASE

3L Hydration Backpack

- Stylish, slimline design
- 3 litre bladder
- Cold cell insulation keeps water cool for hours
- Velcro tabbed protective cover
- Fully adjustable straps with quick release buckle to reduce risk of snag injuries
- V-Form retro reflective strips for low light visibility
- High-Vis yellow and High-Vis orange colour options provide added safety



HC TH BP25B

2L Hydration Backpack

- Stylish, slimline design
- 2 litre bladder
- Cold cell insulation keeps water cool for hours
- Velcro tabbed protective cover
- Fully adjustable straps with quick release buckle to reduce risk of snag injuries
- V-Form retro reflective strips for low light visibility
- 3 waterproof zip pockets



COLD CELL INSULATION



ADJUSTABLE STRAPS



RETRO REFLECTIVE TAPE



QUICK RELEASE



HC TH BPRT

NEOPRENE INSULATED HYDRATION TUBE

- Neoprene Insulated Hydration Tube
- 5.5mm diameter rapid liquid flow tube
- Quick release for easy cleaning
- Bite valve automatic flow/shut-off for hands free hydration
- Includes cover attachment to keep it clean and hygienic UV resistant



HC TH BPB | BPB2

REPLACEMENT BLADDERS

- Ethylene-Vinyl Acetate Copolymer (PVA), BPA-Free
- Large 55mm diameter filling port (accommodates addition of ice)
- Flexible, shock-proof
- Slide lock opening for hygienic cleaning
- BPB: 3L Bladder BPB2: 2L Bladder



HC TH CSHVY



HC TH CSK



HC TH CSHVO



HC TH CSRB

Cooling Scarf

- Microfiber evaporative cooling
- UPF 50 chemical-free production
- Lightweight stretch fabric with non-chafing elastic ends for comfortable cooling that will stay put
- Multi-purpose: protects from sun, defends against dust and debris, and keeps you cool at the same time
- Machine washable - cooling ability is not affected, reuse again



**Refractometer Usg Pen
HC TH PENUSG**

- Digital refractometer for a more accurate Urine Specific Gravity (USG) reading
- Delivers a nearly instantaneous result of USG
- Automatically calibrates itself to water and is ready to use in seconds
- LCD display is easily read, even with dim light
- While urine colour works well as a quick and easy guide, a far more accurate reading can be attained by using a Refractometer. The ATAGO Pen Refractometer (Model No. 3471) is designed to measure USG (Urine Specific Gravity), being a more effective and efficient way to assess hydration status. Lighter coloured urine is more dilute (i.e. it has less molecules per volume) and has a specific gravity closer to that of water (1.00), indicating a good hydration status.



**Power Cooler Misting Fan
HC TH MF**

- The THORZT Power Cooler Misting Fan is a unique cooling system that creates a comfortable, cool environment both indoors and outdoors.
- Reduces temperatures by up to 15°C
- Cools up to 300m²
- Integrated easy fill 60L water tank
- Plays a vital role in heat illness prevention
- Robust design with wheels for mobility - one person move

**Heat Stress Signs
HC TH THONG**
Educational awareness Simple and can be displayed on site as a constant reminder to workers
Size: 900mm x 1200mm

**Heat Stress Signs
HC TH THOIH**
Educational awareness Simple and can be displayed on site as a constant reminder to workers
Size: 900mm x 1200mm

Cooling Evaporative

When dehydrated our bodies need more than water alone. We need to replace all the essential nutrients we lose through sweat, known as electrolytes. Having an adequate supply of electrolytes, and drinking water is important to consider when developing hydration programs.

In addition to hydration, cooling products have been shown to reduce physiological strain and increase efficient work time by up to 10%. Cooling neck ties, hard hat inserts, cooling towels and evaporative vests. When activated these products increase your body's natural ability to dissipate heat.



CHILL-ITS® 6602 EVAPORATIVE COOLING TOWEL

- HC CHI 12420 - Cooling Towel
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
 - Construction, Trades, Maintenance, Landscaping/Grounds, Assembly/Fabrication,
 - Material Handling, Freight/Baggage,
 - Warehousing/Distribution, Iron/Steel Fabrication



CHILL-ITS® 6670CT EVAP. HARD HAT NECK SHADE W/ COOLING TOWEL

- HC CH 12523 - Keeps the sun off while delivering cool comfort to your neck.
It's like A/C for your hard hat. It soaks up all the sweat, keeps it out of your eyes, and uses it to create a cooling effect
- Features:
- eVapora™ cooling technology
 - wicks away sweat
 - Mesh panels for targeted breathability
 - Flat seams for comfortable
 - feel against your skin
 - Velcro® straps secure ColdRush® inside your hard hat
 - Machine wash, air dry



CHILL-ITS® 6710 EVAPORATIVE COOLING TRIANGLE HAT

- HC CHI 12327 - Blue
Activate by soaking in water for 2-5 minutes
Re-usable: just soak in water to re-activate Tie closure
- Construction, Trades, Maintenance, Landscaping/Grounds, Assembly/Fabrication,
 - Material Handling, Freight/Baggage,
 - Warehousing/Distribution, Iron/Steel Fabrication



HC TH CCRB | HC TH CCB Cooling Cap

- Cooling Cap with Evaporative Cooling Brow Band
- Adjustable ties at the nape of the neck
- Ideal for wearing under a helmet, hard hat or alone
- When wet, stays cool while you are active
- Absorbent when dry, perfect for absorbing moisture and sweat
- Use for hours at a time, simply re-wet to reactivate
- Lightweight and durable
- Machine washable - cooling ability is not affected, reuse again and again



COLDRUSH COOLING BANDANNA

- HC HX 302000 - Blue
When working up a sweat, a cold compress on the head or neck feels amazing. But the feeling is often fleeting, because most fabrics quickly lose their cooling effect. ColdRush® bandanas make that cooling effect last hour after hour
- Features:
- eVapora™ cooling technology
 - wicks away sweat
 - Cotton shell
 - Machine wash, air dry
 - Unisex design, one size fits most



CHILL-ITS® 6660 HARD HAT BRIM WITH SHADE

- HC CHI 12640 - Cooling Hat brim with neck shade
Polyester blend fabric with UV +50 treatments for durability and extra sun protection.
Universal design - elastic inner rim to fit almost any hard hat style, design or size.
Blocks the sun's rays keeping workers comfortable in environments absent from other shade.
- Patent pending.
 - Construction, Trades, Maintenance, Landscaping/Grounds, Assembly/Fabrication,
 - Material Handling, Freight/Baggage,
 - Warehousing/Distribution, Iron/Steel Fabrication



HC TH CSOVO Evaporative Cooling Slip-Over Vest

- When wet, stays cool while you're active
- Simple slip over vest
- Comfortable, quilted polyester outer with unique polymer cooling fabric inner
- Hand washable - doesn't effect cooling
- Lightweight and durable
- One Size Fits Most



HC TH ECVHVY Evaporative Cooling Vest

- Simple V-neck with zipper closure; works for a wide range of people and uses
- Can provide hours of cooling relief per soaking
- Lightweight, easy to activate, and durable
- Comfortable quilted nylon outer with unique polymer cooling fabric inner, water repellent nylon liner, and black poly-cotton trim
- Hand washable, doesn't effect cooling



HC TH CSB Chill Towel

- Promotes thermoregulation
- Comforts and cools the skin
- Looks as cool as it feels
- Machine Washable



HC TH CTB | HC TH CTRB Cooling Tie

- Promotes thermoregulation
- Reduces heat stress risks
- Comforts and cools the skin
- Looks as cool as it feels



HC TH CWBB Cooling Wrist Bands

- When wet, stays cool while you're active
- Hook and loop closure for custom fit
- Comfortable, cool mesh polyester outer with unique polymer cooling fabric inner
- Hand washable - doesn't effect cooling
- Lightweight and durable
- One pack includes two Cooling Wrist Bands



HC TH CBPB Cooling Brow Pad to Fit Hard Hats

- When wet, stays cool while you're active
- Rear elastic panel ensures a comfortable fit for all
- Comfortable, cotton outer with unique cooling fabric inner
- Hand washable - doesn't effect cooling
- Lightweight and durable



Cooling Crown Pad to Fit Hard Hats
HC TH CCPO

- When wet, stays cool while you're active
- Hook and loop attaches easily to hard hat liner
- Comfortable, polyester mesh outer with unique polymer cooling fabric inner
- Hand washable - doesn't effect cooling
- Lightweight and durable



COOLING RANGER HAT
HC TH CRHKM | HC TH CRHKL
HC TH CRHKM | HC TH CRHKL

- When wet, stays cool while you're active
- Adjust with convenient strap clincher
- Lightweight and durable
- Comfortable, breathable outer with unique polymer cooling fabric inner
- Hand washable - doesn't effect cooling
- Low profile hook and loop size adjustment
- Sizes: Medium - CRHKM 58cm
- Large - CRHKL 60cm



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Supporting Better Products

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