

# HYDRATION AND COOLING



Industrial **Protective** Products (WA)  
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# 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 ischaemic (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.

# Hygiene - Skincare



## 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.

## Order Information



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# Hydration & Cooling

## Cooling - CoreControl™

- Cool rapidly & effectively from the body core out
- Work longer in extreme environments

### The Safe Way to Control Body Temperature

CoreControl™, based on a new understanding of the physiology of temperature regulation, cools you safely and quickly from the inside out. This device is safe and effective because it amplifies the body's natural mechanisms for heat dissipation.

### Inefficient cooling methods.

Typically, workers attempt to cool themselves through frequent breaks, cool misting fans, and by shedding heavy clothing to apply ice to the body.

While these methods may make you feel cooler, they are ineffective and dangerous, you need to get to the core of the body quickly and efficiently to treat and prevent heat stress.

What makes CoreControl™ different is the breakthrough technology that actually accelerates the body's natural cooling process

### The Future!

Until recently, preventive cooling was limited to frequent breaks, cool beverages, the shedding of heavy clothing and the application of any number of topical cooling methods, from cool mist fans to ice vests.

While these methods make you feel cool on the outside, science is now showing that these are not cooling your Core Temperature at all, and are having a dangerous effect on user. Through awareness and education First Aider's, Medical Staff, Health & Safety Officials and workers are recognizing the benefits of cooling the body's core temperature. They are all turning to a new method allowing this to be done safely, effectively, fast and non-invasively. CoreControl™.

Cooling the body core temperature simply means that we are lowering the temperature of the core organs back to a safe and optimum temperature. We know it as Homeostasis. This provides many benefits.

*Firstly*, this new safe proven method of cooling the body's core actually is the enhancement and the acceleration of the body's natural heat dissipation process.

With this in mind it's not surprising that testing has shown to cool up to five times faster than conventional skin surface methods.

*Second*, the cold temperatures of these remedies can result in a vasoconstriction of the peripheral blood vessels and actually cause a reverse of the desired effect by shutting down the natural heat dissipation mechanism.

If used as a preventative measure, core cooling is shown to slow the body's heating up process considerably and dramatically improve productivity, safety and health.

# Hygiene - Skincare

## Cooling - CoreControl™



### Technology: How it works

Elevated core body temperature is a problem for many, including industrial workers, miners and soldiers. Emergency medical responders and physicians are often overwhelmed by heat stress incidents. Anyone regularly subjected to exertion in sweltering conditions knows what heat can do to cognitive function, safety and performance. As the temperature of the body's core organs (heart, lungs, liver, kidneys, and brain) rise, fatigue sets in and cognitive functions deteriorate rapidly.

CoreControl™ powered by RTX was originally developed on the principles of mammalian thermoregulation. All mammals have "radiators," specific regions of the body surface designed for dissipating excess heat from the body core to the environment.

Blood is preferentially pumped to these surfaces when metabolism increases as it does during work environment, exercise or weather conditions.

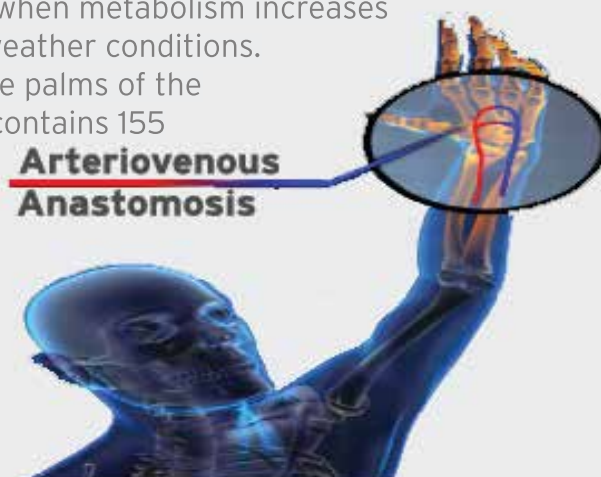
In humans, these radiator surfaces are found in the palms of the hands and soles of the feet. On average, our skin contains 155

sweat glands per square centimeter; however, our hands have 83% more sweat glands per square centimeter than *the rest of our body*. The back of our hands contains 200 sweat glands per square centimeter whilst on the palms of our hands there are 370 per square centimeter.

When we get hot, blood flow naturally increases through these skin regions to

dissipate heat through specialized blood vessels called arteriovenous anastomoses (AVAs).

CoreControl™ enhances heat extraction through these radiator surfaces by amplifying local blood flow using a proprietary and scientific combination of carefully controlled scientifically proven temperature settings and slight vacuum.



### Education, Awareness

The topical cooling methods most widely used can sure make you feel cooler, and fast.

This is because our body's sensors are located at the skin's surface.

Unfortunately, applying something cold to the skin's surface will cause a vasoconstriction, or a closing of the blood vessels.

This pretty much shuts down the skin's ability to dissipate the heat by reducing blood flow and could actually result in a higher core temperature.

Cooling the body's core is quite a bit different.

- Unlike existing mechanisms available we must first create a controlled environment with product, the correct optimum temperature applied to cool must be regulated and controlled, to prevent vasoconstriction as mentioned earlier as well as a controlled optimum vacuum to be applied so heat can be extracted through the thermal portals (palms of the hand) and cool can be absorbed.

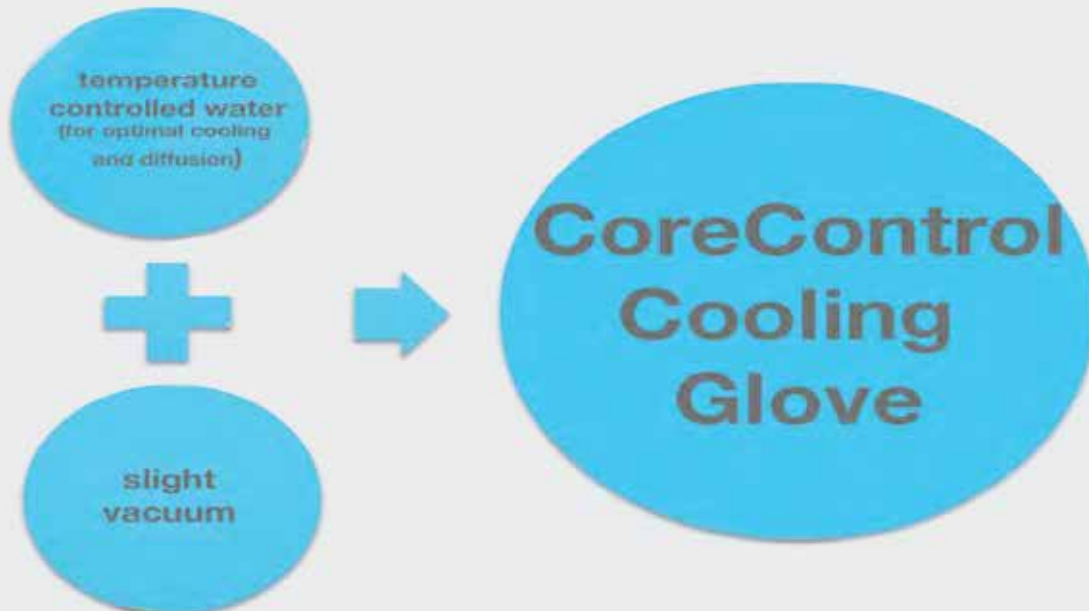


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# Hydration & Cooling

## Cooling - CoreControl™



While humans don't have internal sensors that allow us to feel the cooling of the body's core, there are other ways to physically feel the effect of CoreControl™. Such as feelings of increased mental clarity, increased energy, reduced mental and physical fatigue and a feeling the day has just started.

*Craig Heller, Ph.D., a Stanford researcher who has done extensive research on body core cooling explains, "While traditional cooling methods make the victim feel cooler on the outside, they are not effective in extracting heat from the body's core organs. In fact, testing demonstrates that these methods may make matters worse. When cold is applied to the body's surface, it can trigger constriction of the skin's blood vessels which interferes with cooling."*

### Heat, hard labor, and protective clothing: A dangerous combination.

Fatigue caused by heat in the course of a workday can have a great affect on productivity, the ability to think clearly and avoid making life-threatening mistakes. Furthermore, heat-related conditions like cramping, mental fatigue and exhaustion can develop and even escalate into fatal heat stroke. One worker having a heat stress incident can cost your company thousands of dollars in lost time, workman's compensation and medical benefits.





# Hygiene - Skincare

## Cooling - CoreControl™

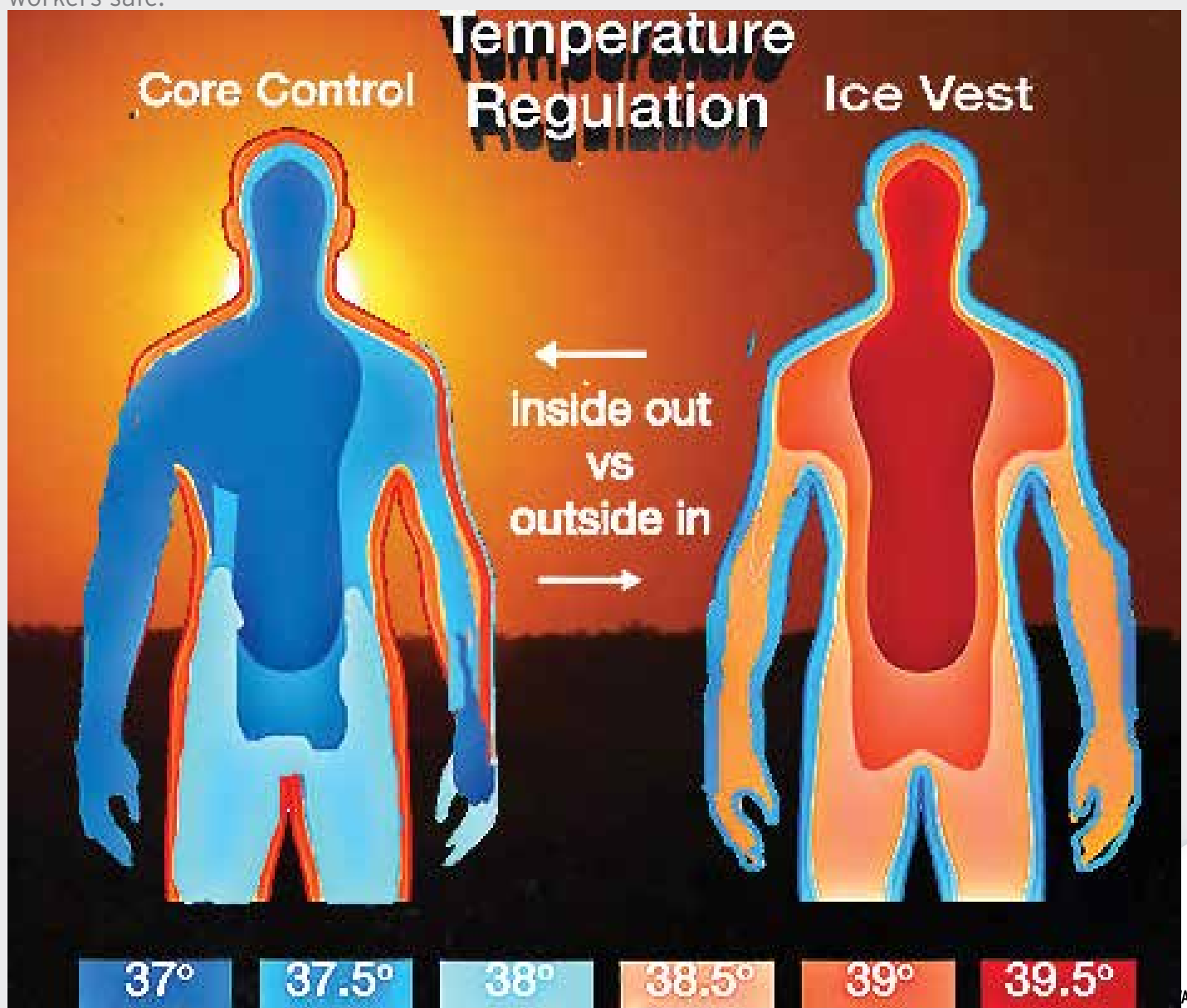


### Safe on the job.

CoreControl™ is the safe way to beat the heat. Unlike traditional cooling methods, CoreControl™ actually extracts heat from the body. This breakthrough device can be used to treat and prevent heat stress in the workplace while decreasing fatigue and maintaining mental clarity. And since CoreControl™ is non-invasive and portable, it can be easily accessible at any work/job site. For those extreme environments where Heavily Insulated PPE is required as well as hot temperatures workers are at a even higher risk of heat related injuries,

CoreControl™ can help keep the core body temperature within the zone.

When faced with overheated staff, CoreControl™ safely cools the body rapidly and non-invasively to reduce fatigue, increase endurance and productivity and improve cognitive function. Keeping your workers safe.





# Hydration & Cooling

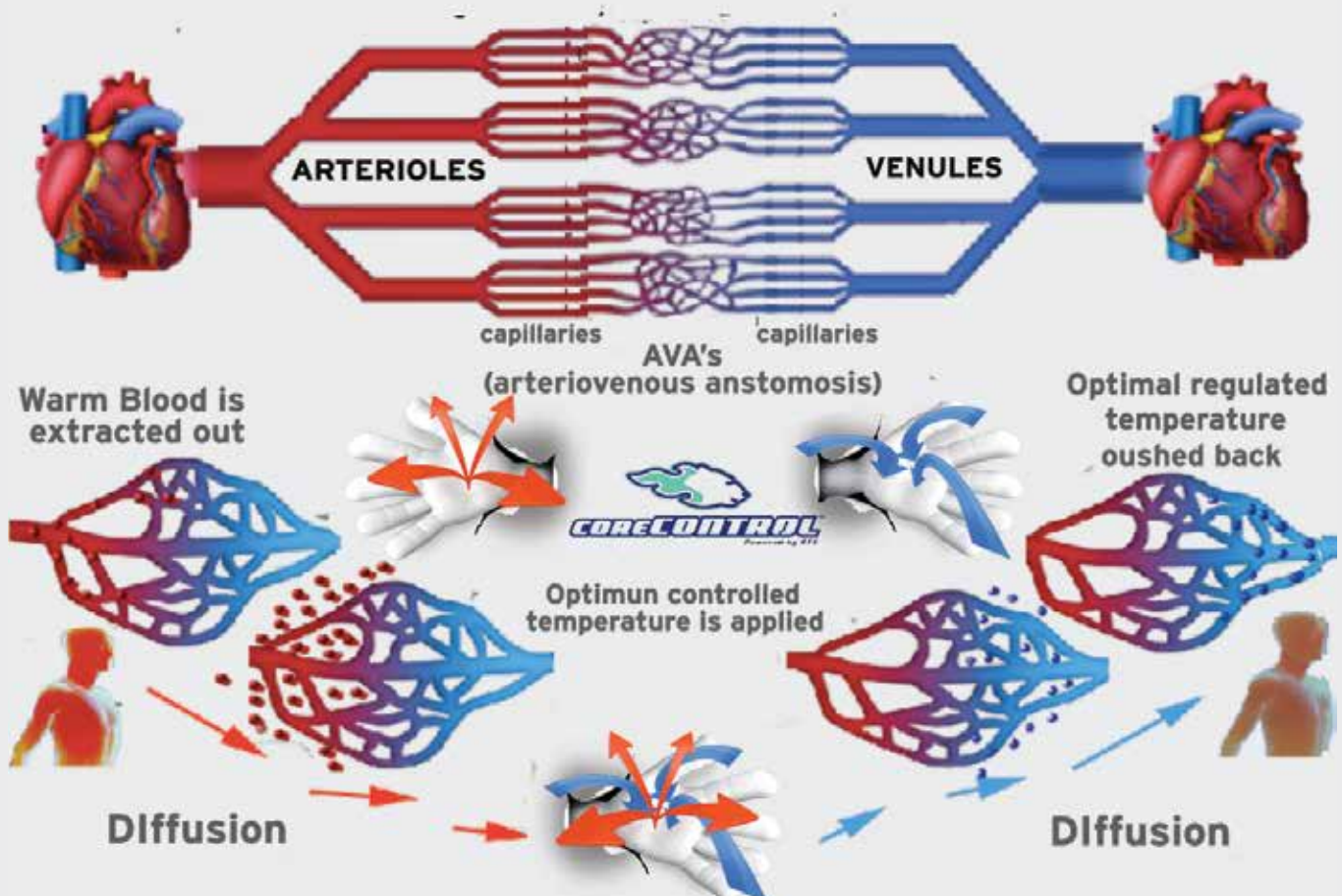
## Cooling - CoreControl™

### Frequently Asked Questions

**What is CoreControl™?** - CoreControl™ is cutting edge technology developed for core body heat extraction. An increase in body temperature limits one's ability to do physical work. CoreControl™ can enhance performance and recovery for those who work in hot environments. CoreControl™ is extremely efficient for heat extraction because it works with the body's natural adaptations for thermoregulation. The technology is simple to use, painless, non-invasive, safe and effective.

### How does CoreControl™ Work? Why does it Work?

Specialized blood vessels exist in the palms of your hand for heat dissipation purposes. These structures - Arteriovenous Anastomosis (AVA's) are your body's radiator and allow large amounts of blood to flow directly beneath the skin when the body needs to dissipate excess heat. CoreControl™ enhances the blood flow to those surfaces through a combined application of temperature and a slight vacuum. Keeping cool enhances physical performance. For those who work in extreme conditions, it provides an effective efficient and proven way to complete the daily task safely, because less blood needs to be shunted to the skin for heat dissipation purposes, making more available to service the brain and working muscles.





# Hydration & Cooling

## Cooling - CoreControl™



How does CoreControl differ from existing products that also help with thermoregulation? CoreControl™ uses a scientifically verified constant controlled water temperature with a slight vacuum that is FIVE TIMES more efficient in core reduction than any other product.

CoreControl works with the body's natural adaptations, pulling heat directly out of the core through "thermal portals" in the hands. CoreControl™ can accomplish heat extraction more efficiently, safely, and non-invasively than all other technologies currently available.

The human body works effectively within a small range of temperature. When we begin to get hot our body tries to get back to a homeostatic state. This is a constant ongoing process. Over the last few years, studies have targeted individuals with workloads in hot environments. These studies shown dramatic improvements in productivity and safety using CoreControl™.

When used to manage workers heat exposure, CoreControl™ stands out from all the rest. Heat Stress is constantly being monitored. Even so independent studies have shown of all workers are reaching heat exposure levels that are concerning and dangerous. Heat exposure still puts your staff at a constant risk and significantly increases probability of dangerous and deadly accidents occurring.

Use of CoreControl™ reduces the rate of core temperature rising during work periods and when used as a ongoing everyday heat stress management tool, CoreControl™ gives your workers proven results in reduced risk of heat and dehydration related injuries and significant productivity increases. While offering a safer environment.



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# Hydration & Cooling

## Cooling - CoreControl™

### Stay Cool, Stay Safe

The goal is always to maintain a safe and healthy work environment. This can best be done by paying attention to ourselves and our co-workers, knowing how to recognize a heat problem or potential heat problem, and acting quickly to respond to heat issues before they escalate into something serious.

PHOENIX -The intense flames combined with excessive heat is brutal for crews on the front lines, as you can imagine. Phoenix firefighters are testing a new cooling glove. It's created by Stanford biologists and the glove is already being used in other industrial markets now fire crews here are using it as it helps them effectively safely and efficiently recharge in triple digit heat. Firefighters now have a helping hand keeping them cool.

"You can feel the suction create a seal and what it does is cool water that come in on my wrist and hand you feel that right away. effect radiating up my arms," said Luke Anderson.



The CoreControl glove removes heat while cooling blood. "We are trying a new method cooling from the core out instead of cooling from outside in with air conditioning or cool mist - we are going to cool our Core Temperature by enhancing the natural process what our body does in this situation we have in the palm of our hands special radiators," said Anderson.

Fire gear can reach extreme temperatures. Firefighters typically remove gear while they cool down, but with the glove, officials say they won't have to.



"This device makes it so you don't have to go indoors, you don't have to take your equipment on glove and from there, start cooling our core," said Anderson. "Our rehab trucks are there, you are cooling yourself off with water misting systems -- all you can find -- so this unique thing if they asked me to sign off on it, I would say absolutely yes."

Firefighters trying out the device saw results fast.

"We know it's cooling our core because we can see that our firefighters have stopped sweating with three to five minutes of the unit being on hand."

"I can imagine if you're really overheated, this is going to feel so good."

# Hydration & Cooling

## Cooling - CoreControl™



### Core Control Unit Complete

**SC CC CUC** - Core Control Unit Complete

Cool rapidly & effectively from the body core out.

- Work longer in extreme environments

### Own this revolutionary cooling device

The CoreControl™ is essential to helping prevent heat illness in the workplace. Periodically, using CoreControl™ throughout a bout of physical exertion decreases the core temperature allowing users to work safely. A linesman or firefighter who is working hard can use CoreControl™ to cool core temperature and return to activity more quickly, helping to prevent the onset of heat illness.

Heat can take a toll on your body. As anyone who's worked in extreme conditions can attest, heat impairs performance, increases stress and reduces endurance. Also heat-related illnesses can develop, and even escalate into heat stroke. Keeping cool is essential to staying safe on the job.

### Core Control Hand Pod Assembly

**SC CC HPA** - Hand Pod Assembly

Hand Pod Assembly for your CoreControl



### Core Control Hand Support Pad

**SC CC HSP** - Hand Support Pad

### Core Control Industrial Wrist Seal

**SC CC WSS** - Wrist Support Seal



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# Hydration & Cooling

## Cooling- Evaporative



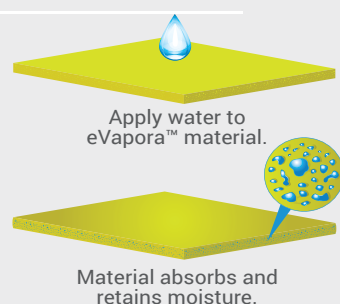
ColdRush® personal cooling products from HexArmor®, made with eVapora™ technology, is a quick absorbing material which retains moisture and slowly allows it to evaporate, creating a cooling effect on the skin. Made for high temperature work environments or extreme physical activity, ColdRush® will keep you and your workers cool all day long.

### How ColdRush® Works:

Our eVapora™ fabric technology quickly absorbs moisture up to six times its weight, retains it, and allows it to slowly and naturally evaporate, which produces a cooling effect on the skin for hours. The result is cooler and more comfortable workers. Once in contact with the skin, ColdRush® continually wicks perspiration away and stores it in microcavity moisture reservoirs, which provide up to four hours of active cooling.

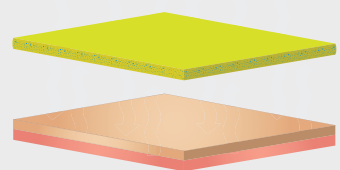
### How to Use:

- Soak in water for 30 seconds or until saturated, ring out excess water, and place directly on skin
- When the cool effect fades, re-wet and reuse
- Cooling lasts up to four hours
- When dry, do not tear or pull apart
- Store dry
- Machine wash, air dry, do not bleach



Apply water to eVapora™ material.

Material absorbs and retains moisture.



Retained moisture and air flow provides continuous cooling action when in contact with skin surface.



### COLDRUSH Cooling Towel

**HC HX 30401** - Evaporative Cooling Towel

Throwing a bucket of ice water over your head isn't always an option on the jobsite. Luckily, you've got a towel that keeps you cool with no melting or dripping, and can be counted on for hours on end.

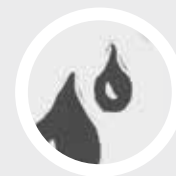
#### Features:

- Size: 13" x 33"
- eVapora™ cooling technology wicks away sweat
- Lightweight
- Machine wash, air dry



# Hydration & Cooling

## Cooling- Evaporative



### COLDRUSH COOLING DU RAG

**HC HX 301001** - Blue , **SC HX 30101** - Orange, **SC HX 30102** - Lime

Maintain a cool head, even when things heat up at work. This du rag includes vented sides to increase airflow and provides protection by blocking sunlight from the skin.

#### Features:

- Extended eVapora™ neck flap designed to lay on neck, which is a prime cooling point
- eVapora™ cooling technology wicks away sweat
- High performance polyester shell
- Utilization of mesh panels for targeted breathability
- Flat seams for comfortable feel against your skin
- Machine wash, air dry
- Unisex design, one size fits most



### COLDRUSH DU RAG with NOMEX® SHELL

**HC HX 30145** - Nomex Blue

This du rag is constructed with a Nomex® shell for jobsite compliance. While this garment is not designed to provide protection against heat and flame, the outer material of the garment has the following FR Properties: NFPA 2112, ASTM F1930, and ASTM F1959

#### Features:

- Extended eVapora™ neck flap designed to lay on neck, which is a prime cooling point
- eVapora™ cooling technology wicks away sweat
- High performance Nomex® shell



### 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



### COLDRUSH COOLING HARD-HAT INSERT

**HC HX**

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



### COLDRUSH HARD HAT INSERT with NECK SHADE

**SC HX 30153** - Blue

Extend the cooling effect beyond the hard hat with the extended neck shade. In addition to the benefits of the hard hat insert, the additional neck shade fabric provides protection from the sun and even more coverage for a cooler, more comfortable experience.

#### Features:

- Extended performance nylon neck shade
- 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

## Order Information



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# Hydration & Cooling

## 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 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



### 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

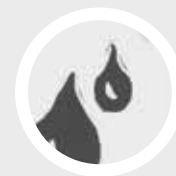
**HC CHI 12640** - Cooling Hat brim with neck shade

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

# Hydration & Cooling

## Cooling- Evaporative



### Vision Safe Attach-A-Flap

**PC VIS AAF** - Colours - Hi Vis Orange Micro Mesh, Navy Micro Mesh, Hi Vis Yellow Micro Mesh, Silver Grey Micro Mesh, White Micro Mesh, Orange 100% Cotton, Navy 100% Cotton

- Attaches to your hard hat or cap
- Provides additional protection from the sun
- Cool and comfortable to wear
- Adjustable side coverage
- 50+ UPF fabric
- Machine washable and quick dry



### Vision Safe Kalahari Hat

**PC VIS KHM** - Colours - Atlantic Blue Micro Mesh, Bottle Green Micro Mesh, Camel Micro Mesh, Hi Vis Orange Micro Mesh, Hi Vis Yellow Micro Mesh, Navy Micro Mesh, Silver Grey Micro Mesh, White Micro Mesh, Navy 100% Cotton, Orange 100% Cotton

- Lightweight, cool and comfortable to wear
- Deep curved peak
- Adjustable head strap to fit all sizes
- 50+ UPF rated fabric
- Soft toweling sweatband
- Releasable back panel for improved ventilation



### Vision Safe Le Work Hood

**PC VIS LWH** - Orange or Navy

- Creates no further restriction to upward vision
- Adjustable headband to fit various sizes
- Large toweling sweatband across forehead for comfort
- 50+ UPF fabric
- 100% Cotton

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# Hydration & Cooling

## Hydration - Sqwincher

### Hydration and Cooling

When dehydrated our bodies need more than water alone. We need to replace all the essential nutrients we lose through sweat, known as electrolytes. Sqwincher® is an electrolyte enhanced beverage for effective hydration. Having an adequate supply of electrolytes, such as Sqwincher® 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, such as Ergodyne's Chill-Its® range use the latest in cooling materials. When activated these products increase your body's natural ability to dissipate heat.



#### SQWINCHER® 600ML READY TO DRINK

**SC SQ SQ030538-LL**, Lemon Lime,  
**SC SQ SQ030536-SL**, Pink  
Lemonade  
**SC SQ SQ030534-OR**- 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. •

Drink straight from the bottle.

- Convenient packaging, take anywhere.
- Low in sodium.
- Caffeine free.
- Available in three assorted flavours.



#### 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® ELECTROLYTE CHEWS

**SC SQ 010370-OR**, Orange,  
**SC SQ S010371-WB**, Wild Berry  
**SC SQ 010372-BC**, Black Cherry, **SC SQ 010374-PL** Pink Lemonade

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. •

- Innovative new format for hydration
- Great tasting chews in convenient single serve portions
- Enhanced with electrolytes for effective hydration
- Chews consumed with plain water, no mixing or measuring required.



#### 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.



#### 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.

# Hydration & Cooling

## Hydration - Sqwincher



### 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 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 3.8L Powder Concentrate

**SC SQ 159016018** - Flavours Lemon Lime, Orange, Mixed Berry, Lemonade

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 a 3.8 litre cooler to make 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 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 Qwik Serv

**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 Kwik serves per pack.

## Order Information



Call 08 9330 6355



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# Hydration & Cooling

## Hydration - Elixir



### ELIXIR



GIVE YOUR WATER  
A BOOST WITH FIVE  
REFRESHING FLAVORS

ELECTROLYTE-POWERED HYDRATION →

## ELIXIR ELECTROLYTE-POWERED HYDRATION

Elixir is electrolyte-powered hydration packed with essential electrolytes to help you replenish what you lose when you sweat during activity. Each convenient tube comes with 12 effervescent tablets that turn 16 ounces of water into an electrolyte enhanced performance beverage

Elixir™ tablets are a low-calorie way to give your water a boost of flavor and nutrition. Add a tablet or two to your reservoir or bottle to replace the electrolytes you lose on a regular basis when at work. We've created a caffeine-free sugar free range of refreshing fruit flavors like watermelon & Kiwi and raspberry or Lemon & lime.

- Elixir is a sugar-free effervescent tablet, loaded with electrolytes.
- Elixir tablets are self-mixing and won't leave a sticky residue behind.
- Tablets are packaged in easily portable tubes for easily accessible enhanced hydration on-the-go
- Sugar-free, effervescent electrolyte tablet • No sticky residue to clean
- No pre-mixing or stirring necessary - just drop a tablet in to your water
- More electrolytes (sodium, potassium, magnesium) per serving than the leading sports drink.
- Only 10 calories per serving.



### CAMELBAK NEW ELIXIR™ ELECTROLYTE TABLET LEMON-LIME 90973

**HC CB 90973 - Lemon-lime Flavor 12 tablets per bottle.**

Elixir Watermelon Kiwi is a great tasting, sugar-free effervescent tablet, loaded with electrolytes, and designed specifically for a CamelBak® hydration system. Elixir tablets are self-mixing and won't leave a sticky residue if used in a reservoir or Podium® Bottle. Use one tablet for every 16 oz of water. 12 Tablets come in an easy-to-carry portable tube. Only 10 calories per serving.



### CAMELBAK NEW ELIXIR™ ELECTROLYTE TABLET WATERMELON-KIWI 90975

**HC CB 90975 - Watermelon Kiwi Flavor 12 tablets per bottle.**

Elixir Watermelon Kiwi is a great tasting, sugar-free effervescent tablet, loaded with electrolytes, and designed specifically for a CamelBak® hydration system. Elixir tablets are self-mixing and won't leave a sticky residue if used in a reservoir or Podium® Bottle. Use one tablet for every 16 oz of water. 12 Tablets come in an easy-to-carry portable tube. Only 10 calories per serving.



### CAMELBAK NEW ELIXIR™ ELECTROLYTE TABLET RASPBERRY-LIME 90974

**HC CB 90974 - Raspberry-Lime Flavor 12 tablets per bottle.**

Elixir Watermelon Kiwi is a great tasting, sugar-free effervescent tablet, loaded with electrolytes, and designed specifically for a CamelBak® hydration system. Elixir tablets are self-mixing and won't leave a sticky residue if used in a reservoir or Podium® Bottle. Use one tablet for every 16 oz of water. 12 Tablets come in an easy-to-carry portable tube. Only 10 calories per serving.



# Hydration & Cooling

## Hydration - Hydrasafe



### HYDRASAFE THE ALL NATURAL WAY TO HYDARATE

The sodium level in HydraSafe® promotes rehydration and helps maintain fluid balance. The sodium level in Hydrasafe® has been scientifically formulated to support the maintenance of normal plasma volume. If sweat losses were to be replaced solely by low sodium beverages, such as water, individuals may lose some fluid through urine. In extreme climatic conditions, an individual may also suffer from hyponatremia (which is a disturbance of the salts in the blood)\*\*

Fast-acting HydraSafe® is an all natural electrolyte replacement drink, scientifically formulated to safely replenish fluids and necessary mineral salts which are lost through dehydration or through physical exertion.

HydraSafe® has chosen to include sodium, calcium and magnesium in its product.

HydraSafe® assists in:

- Rehydration
- Restoring energy
- Reducing workplace fatigue

All HydraSafe® products are manufactured with:

- No artificial colours
- No sweeteners
- No preservatives
- No additives
- Sodium enrichment for body-balance

The HydraSafe® products are available low-carbohydrate blend which taste great and comes in five exciting flavours - orange, lemon lime, berry blast, apple and fruit punch



#### HYDRASAFE 1L SACHET

- HC HYD LL1.0** - Lemon Lime Flavour
- HC HYD OR1.0** - Orange Flavour
- HC HYD FP1.0** - Fruit Punch Flavour
- HC HYD BB1.0** - Berry Blast Flavour
- HC HYD AP1.0** - Apple Flavour



#### HYDRASAFE 2.5L SACHET

- HC HYD LL2.5** - Lemon Lime Flavour
- HC HYD OR2.5** - Orange Flavour
- HC HYD FP2.5** - Fruit Punch Flavour
- HC HYD BB2.5** - Berry Blast Flavour
- HC HYD AP2.5** - Apple Flavour

#### Order Information



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# Hydration & Cooling

## Hydration - CamelBak

### All Clear™ Bottle

Reliable Purification, Whatever the Destination. CamelBak® All Clear™ utilizes proven UV technology to effectively neutralize microbiological contaminants to EPA standards. With a built-in LCD to confirm your results, purification has never been easier.

CamelBak All Clear turns nearly any tap or clear natural water source into potable drinking water in just 60 seconds, letting you hydrate on the spot. And, since CamelBak All Clear is a water bottle as well as a purification system, you can enjoy your water right after treatment or carry it with you.

### 60 Seconds to Purified Water. Anywhere

Traditional methods for water purification are often impractical: boiling water is time-consuming and uses precious fuel, iodine treatments can take up to an hour and leave an unpleasant after-taste, and pump filters can be bulky and exhausting. CamelBak All Clear turns nearly any tap or clear natural water source into potable drinking water in just 60 seconds, letting you hydrate on the spot. And since CamelBak All Clear is a water bottle as well as a purification system, you can enjoy your water right after treatment or carry it with you. Rechargeable lithium ion batteries (included) deliver 80+ cycles on a single charge so you know you'll have drinkable water day after day when you're on the trail.

### It's all in the Cap.

Integrating powerful UV technology into an energy-efficient cap, CamelBak All Clear delivers optimum UV exposure at the press of a button for purification so reliable, we've backed it with our Got Your Bak™ Lifetime Guarantee. Engineered to perform even under the toughest conditions, All Clear has been tested and retested under severe conditions to deliver drinking water you can trust, everywhere and every time you need it.

# CAMELBAK



#### Camelbak All Clear™ UV Water Purifier 90783

**HC CB 90783** -All Clear™ UV Water Purifier includes bottle, uv cap with power button LCD screen and uv bulb, camelbak classic lid,usb cable carry bag, for pre-filter unit sold separately

Reliable Purification, Whatever the Destination

CamelBak® All Clear™ microbiologically purifies water in 60 seconds

Utilizes proven UV technology to effectively neutralize microbiological contaminants to EPA standards.

Easy to use:

Fill from any tap, stream or spigot

Replace UV cap and power on

Agitate for 60 seconds and drink

Treats 80 cycles or 16 gallons with each charge.

Impact and weather-resistant cap insulates UV bulb for effective purification every time.

LCD screen verifies success.

Fill from taps, streams, spigots and more.

100% Free of BPA and BPS

CamelBak® Got Your Bak™ Guarantee: If we built it, we'll Bak it™ with our lifetime guarantee.

# Hydration & Cooling

## Hydration - CamelBak



### 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 PUREBLUE 50072

**SC SQ 90783** - CamelBak® All Clear™ microbiologically purifies water in 60 seconds Utilizes proven UV technology to effectively neutralize microbiological contaminants to EPA standards.

Easy to use:

Fill from any tap, stream or spigot

Replace UV cap and power on

Agitate for 60 seconds and drink

Portable purification system is built into your water bottle

Utilizes proven UV technology to effectively neutralize microbiological contaminants.

Treats 80 cycles or 16 gallons with each charge.

Impact and weather-resistant cap insulates UV bulb for effective purification every time.

LCD screen verifies success.

Fill from taps, streams, spigots and more.

100% Free of BPA and BPS

CamelBak® Got Your Bak™ Guarantee: If we built it, we'll Bak it™ with our lifetime guarantee



### CAMELBAK Podium® Chill™

**HC CB 52302** - 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 Groove®

**HC CB 50070** - Groove waterbottle stainless

Turns tap water into freshly filtered water Sustainable, plant-based filter lasts about 3 months or (180L) of water

Easy to refill and easy to use bottle with a filter built into 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

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.

## Order Information



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# Hydration & Cooling Hydration - CamelBak



## CAMELBAK eddy™ Insulated .6L 50076

**SC CB 53377** - 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 CRIMSON 1310

**SC SQ 010370-OR**, Orange,  
**SC SQ 5010371-WB**, Wild Berry  
**SC SQ 010372-BC**, Black Cherry, **SC SQ 010374-PL** Pink Lemonade

Squincer 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. •

- Innovative new format for hydration
- Great tasting chews in convenient single serve portions
- Enhanced with electrolytes for effective hydration
- Chews consumed with plain water, no mixing or measuring required.



## CAMELBAK Podium® Ice™

**HC CB 52310** - Silver Podium Ice

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.

## 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.

# Hydration & Cooling

## Hydration - CamelBak



### Camelbak 2 litre

**SC CB 30072** - High Visibility Orange

Easy-to-fill and clean wide-mouth OMEGA® opening, rugged and durable Water Beast™ material, leak-proof screw-cap, insulated PureFlow™ tube, patented Big Bite™ Valve, HydroLink™ Exit Port and Drink Port, HydroLock™ one-handed flow control NEW! Tear-away harness helps prevent accidents, New-Integrated cover keeps OMEGA fillport clean and protected, Includes HydroLink™ Modular Connection 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, Bite Valve Cover keeps Bite Valve clean from dirt and debris, External fill via the OMEGA Reservoir makes filling and cleaning fast and easy.



### 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.



### Sqwincher 3.8L Powder Concentrate

**SC SQ 159016018** - Flavours Lemon Lime, Orange, Mixed Berry, Lemonade

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 a 3.8 litre cooler to make a hydration station that will keep fluid cold for up to 12 hours.



### 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.



### 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.

### Order Information



**Call 08 9330 6355**



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# Hydration & Cooling

## Hydration - Coolers



### Clipper 5 Litre Water Cooler

**SC CLI 7201 Blue SC CLI 7202 Orange**

Volume: 5L/23 x 21 x 32cm  
 Chill time: 36 hrs  
 Weight: 0.9 kg  
 Caribee 5L jug  
 Removable top 0.5L drinking cup with dual pour options - flip top spout or front push button outlet  
 Front spout swivels up to reduce the chance of damage in transit  
 Comfort carry handle  
 Thermal insulated design provides long lasting chill time  
 Colours: Blue or Orange



### Caribee 2.5L Jug

**SC CLI 7200**

Volume: 2.5L/165 x 235mm  
 Chill time: 36 hrs  
 Weight: 0.4 kg  
 Wide mouth screw cap for easy filling,  
 Flip up spout for pouring & sipping,  
 Carry handle for easy transportation,  
 Thermal insulated design provides  
 long lasting chill time  
 Colour: Blue (7200)



### Caribee 8.2L Lunch Cooler

**SC CLI 7204**

Volume: 8.2L /30 x 22 x 27cm  
 Chill time: 48 hrs  
 Weight: 1.3 kg  
 Hinged lid,  
 Integrated swivel carry handle that  
 folds flush with the lid,  
 9 x 375ml can capacity,  
 Thermal insulated design provides  
 long lasting chill time  
 Colour: Blue

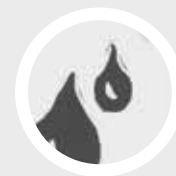


### Caribee 17L Day Tripper Cooler

**SC WIL 7203**

Volume: 17L/372 x 252 x 355mm  
 Chill time: 72 hrs  
 Weight: 2.8 kg  
 Hinged lid,  
 Integrated swivel carry handle that  
 folds flush with the lid,  
 22 x 375ml can capacity,  
 thermal insulated design provides  
 long lasting chill time  
 Colour: Blue (7203)

# First Aid & Skincare Hydration - Coolers



## Caribee 47L Family Cooler with wheels

### SC CLI 7206

Volume: 47L/619 x 358 x 383mm  
Chill time: 72 hrs  
Weight: 5.4 kg  
A ultra large capacity 47L wheeled cooler that's easy to manoeuvre when fully loaded. The insulated body and lockable lid provides an impressive 72hr chill time whilst the oversized wheels and a flip up trolley handle makes detours across rough terrain a breeze. Additional two way carry handles ensure a flexible carrying position whilst a rust proof/leak resistant drain spout assists clean up  
Colour: Blue (7206)



## Willow Water Bottle

### SC CLI 7206

- Capacity: 5L
  - Size: 24 cm (L) x 24 cm (W) x 30 cm (H)
  - 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
- Other sizes can be ordered upon request.



## Willow Water Bottle

### SC WIL 20371

- Capacity: 5L
  - Size: 24 cm (L) x 24 cm (W) x 30 cm (H)
  - 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
- Other sizes can be ordered upon request.



## 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.

## Order Information



Call 08 9330 6355



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