



**TECHNICHE**<sup>®</sup>  
PERFORMANCE, SAFETY, COMFORT

# PRODUCT CATALOG

[www.techniche-intl.com](http://www.techniche-intl.com)



# TECHNICHE®

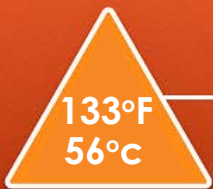
Performance. Safety. Comfort.



At TechNiche we design, manufacture and distribute products that enhance performance, improve safety, and increase comfort. Thus our motto, "PERFORMANCE.SAFETY.COMFORT." Proven in the field and in the lab. We work hard everyday to offer our customers innovative technologies that positively impact their lives. Whether you are at work, competing, or just having fun, our products can help!

We want to take this time to thank our customers, our suppliers, and other strategic partners for their continued support. Your suggestions, and feedback have allowed us to improve our products and grow our business. As we research exciting new personal cooling and heating technology, we hope that you will continue to partner with us and help drive us forward.

## IDENTIFY



UNPROTECTED WORKER IN  
DANGER FROM HEAT STRESS



## TARGET



REGULATE BODY TEMPERATURE  
WITH EVAPORATIVE COOLING



## PROTECT



TECHNICHE IS DEDICATED  
TO WORKER WELFARE



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# SOME OF OUR FABULOUS CLIENTS

**GRAINGER**  
FOR THE ONES WHO GET IT DONE



**Ferrari**



SAN DIEGO ZOO  
**SAFARI PARK**



The City of  
**SAN DIEGO**



**TRIUMPH**

**REVIT!**



# FAMOUS ATHLETES & BRAND AMBASSADORS

SEBASTIAN VETTEL



CANADIAN TRIATHLON TEAM



JOHN SHORT



CANADIAN PARALYMPIC RUGBY TEAM



JAMES GOLDING



TREK TOUR DE FRANCE



CHEYENNE HARMON



CANADIAN SKATEBOARDER



AMB BOBRYSHEV



CANADIAN TRIATHLON TEAM



KADE MOSIG



KTM RMX TEAM





# HEAT STRESS & WORKPLACE SAFETY

## WHAT IS HEAT STRESS?

**Heat stress occurs when our body is unable to cool itself down and becomes overheated. This heat can be generated internally through muscle use or externally by the environment.**

The body has three natural mechanisms for dealing with heat: Breathing, sweating and changing its blood flow. Sometimes these defense mechanisms are not enough, and the body's temperature continues to rise. As heat increases, the body's temperature and heart rate rises, and the body becomes susceptible to heat related illnesses such as heat exhaustion, heat cramps, fainting, or a potentially fatal heat stroke.

Many occupations require workers to be exposed to environments of high heat in both indoor and outdoor settings. Unfortunately, "[e]very year thousands of workers become sick from occupational heat exposure, and some are fatally injured (osha.gov)".

Working in hot conditions leaves workers at risk of heat related illness and can cause them to be slower and less productive. Therefore, preventing heat stress will protect workers health, improve worker safety and increase worker productivity!

## TAKE PRECAUTIONS, LIKE THE FOLLOWING, TO REDUCE YOUR CHANCES OF SEVERE HEAT-RELATED ILLNESSES

- Drink plenty of water and electrolytes - It is recommended to drink a ½ quart of water per hour ( or 1 pint per hour, or 2 cups per hour, or 16 Fl oz per hour)
- Sip water many times throughout the day (every 15 mins), rather than gulp down lots of liquids fewer times per day
- Avoid beverages that contain alcohol, soda, caffeine or other diuretics
- Wear loose-fitting lightweight, light-colored clothing
- Wear headgear that provides shade
- Try to eat fewer warm foods and eat cooler foods instead (like salads, yogurts, and sandwiches)
- Take 10-15 minute breaks every 2 hours
- Use cooling fans or other personal cooling devices, such as cooling vests
- Use technology like HyperKewl™ in conditions with high airflow and lower humidity
- Use Technology like CoolPax™ in conditions with high humidity, low to no airflow, and under protective gear (PPE) such as welding suits.

**HEAT STRESS PREVENTION TIPS**

**AVOID ALCOHOL, CAFFEINE & OTHER DIURETICS (LIKE SODA AND COFFEE)**

Icons: A beer mug, a cup of coffee, and a soda can, each with a prohibition sign over it.

**DRINK 2 CUPS OF WATER PER HOUR**

Icons: Two glasses of water and a clock face showing 15 minutes.

**BONUS: SUPPLEMENT WITH ELECTROLYTE FILLED BEVERAGES, LIKE SPORTS DRINKS**

**WEAR PERSONAL COOLING DEVICES**

Icons: Two cooling vests, one labeled 'HYPERKEWL' and the other 'COOLPAX'.

**LIKE HYPERKEWL™ OR COOLPAX™ VESTS & ACCESSORIES FROM:**

**TECHNICHE**  
PERFORMANCE. SAFETY. COMFORT

**TAKE 15 MINUTE BREAKS EVERY 2 HOURS**

Icons: A clock face showing 15 minutes and a large alarm clock showing 2 hours.

## WHAT EMPLOYERS CAN DO TO HELP:

It's important that workplaces reduce the risk of heat stress ever happening. Adhering to a set of working parameters will mitigate that risk. A risk assessment should be made in the relevant workplace, prior to putting any of these working practices into action.

- Provide cold beverages (water and/or sports drinks)
- Provide rest breaks and water breaks in cool areas
- Provide heat stress training to employees and supervisors. Including information about prevention, symptoms and what to do in the event of an emergency
- Provide protective attire, such as cooling vests
- Provide technology like HyperKewl™ in conditions with high airflow and lower humidity
- Provide Technology like CoolPax™ in conditions with high humidity, low to no airflow, and under protective gear (PPE) such as welding suits.
- When possible, provide fans or other means to circulate airflow and disperse heat away from workers
- Use physical barriers to dissipate radial heat
- When possible schedule work when the temperature is cooler (i.e. Early mornings)
- Be sure to allow workers to take 10-15 minute breaks every two hours
- Acclimatization: start new workers, that are not used to working in the heat, at 50% of the normal workload and time exposed to the heat for their first day, and gradually build up to 100% by the fifth day.



## WHAT CAN TECHNICHE DO?

TechNiche is committed to reducing the risk of heat stress in the workplace. Our wearable cooling products are designed to target key areas of the body in order to cool the wearer and reduce the risks when working in high temperatures.

### FIGHT HEAT STRESS WITH TECHNICHE!

Cool your body with a variety of our wearable cooling products.

Head - Target exposed skin with head & neck coolers

Body - Target vital organs with cooling vests

Wrists - Target major blood flow points with wrist wraps



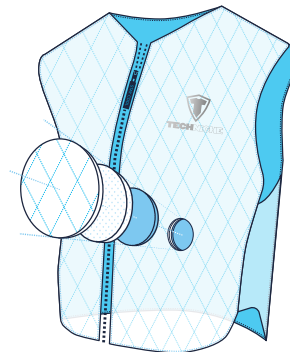
# EVAPORATIVE COOLING TECHNOLOGY

POWERED BY  
**HYPERKEWL™ PLUS**

## WHAT IS HYPERKEWL™ PLUS?

HyperKewl™ PLUS evaporative cooling technology is a unique fabric that absorbs and slowly releases water through evaporation. When the water evaporates, a cooling effect occurs. We look at this process as “super-charging” the body’s natural cooling process, thereby helping the wearer to combat heat stress.

All products powered by HyperKewl™ PLUS technology can provide up to an average cooling of 10-15°F/6-8°C cooler than the ambient temperature (can vary with airflow and ambient conditions).



## HOW TO ACTIVATE

1.



1. Soak  
HyperKewl™ item  
in clean water for  
2-3 minutes

2.



2. Gently squeeze  
out the excess wa-  
ter (do not wring)

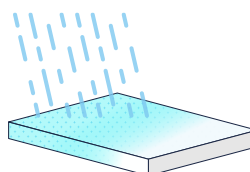
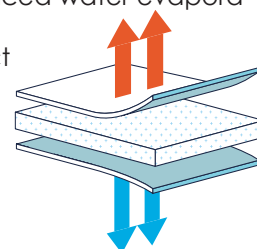
3.



3. HyperKewl™  
item is ready to  
wear!

## BEHIND THE TECHNOLOGY

HyperKewl™ PLUS evaporative cooling technology is a combination of specialized fabrics and fibers which creates an advanced water management system. HyperKewl™ PLUS fabric utilizes a unique chemistry to achieve rapid absorption of water, stable water storage, and enhanced water evaporation. Water is “released” through evaporation, energy is consumed, and a chill effect is created. The HyperKewl™ PLUS fabric cools your body exactly like the body naturally cools itself, through perspiring, only, HyperKewl™ PLUS super-charges the body’s natural cooling process, thereby helping the wearer to combat heat stress. HyperKewl™ PLUS products put a layer of water around the individual, and efficiently evaporates it.



Users can expect the HyperKewl™ PLUS evaporative cooling fabric to provide temperatures that are up to 15-20°F cooler than the ambient temperature. The exact temperature difference will depend on humidity, exposure to airflow and other environmental conditions.

**PLEASE NOTE:** High humidity (90%+) will diminish the fabric’s ability to evaporate water and therefore will not provide cooling without significant airflow such as on a motorcycle. Each garment comes with two hang tags and a care label that fully explains how best to use and care for the product.

**Best Conditions for use: Warm dry climates**

## BENEFITS

- Provides cooling of up to 10-15°F cooler than the ambient temperature.
- 5-10 hours of cooling per activation (depending on airflow)
- Cost effective personal cooling solution
- Fast and effective
- An easy to use reusable system
- Scientifically proven to help with comfort and performance
- Provides extended cooling comfort and heat stress prevention
- No slimy feel
- Uniform cooling
- Garments do not swell or noticeably expand when activated
- Lightweight, non-toxic and durable
- **HyperKewl™ PLUS** is Machine washable at 104°F/40°C
- CE Certified
- Vests and accessories are lined with water repellent fabric allowing the wearer to stay dry
- Used in sport, military, medical, construction, pet and equine markets



WATERPROOF



	Polymer Crystals	Diaper Core Fabrics	HyperKewl™ PLUS Evaporative Cooling Fabric
Patented Technology	No	No	Yes (In process)
Intended Use	Basic Fluid Retention	Human Fluid Retention	Water Management System for personal cooling products
Cooling Performance	Poor	Poor	Excellent
Activation Instructions	Submerge in water for 10- 20 mins	Submerge in water for 10 sec to 5 mins	Submerge in water for 2-3 mins
Risk of Over Hydrating	Moderate	High	Low
Appearance & Fit	Sausage like swelling, bulky feel	Thick, bulky, uneven fabric, bulky feel	Uniform hydration with optimal weight-performance ratio
Anti-Polymer Migration Design	No	No	Yes
Utilizes Absorbent Fiber Matrix	No	No	Yes
Uses Super Absorbent Fibers	No	No	Yes
Practical # of Wet/Dry Cycles	25	10	150+
Machine Washable	No	No	Yes

POWERED BY

HYPERKEWL™ PLUS

STUDIES

**SGS STUDY**SGS

**UVF Rating on Three Layer HyperKewl™ Fabric:  
Provides a UVF Rating of 50+**

**Cooling Capacity of HyperKewl™: 0.231 W/cm²**

*If you consider this in terms of BTU/hr that is the equivalent of up to 2200 BTU/hr of cooling capacity with our 6529 style vest. Small air conditioners provide 6000 BTU/hr of cooling capacity. You can't run with a small air conditioner strapped to your back, but you can run wearing a TechNiche Cooling Vest Powered by HyperKewl™ !*

**UNIVERSITY OF HERTFORDSHIRE STUDY**University of  
Hertfordshire

University of Hertfordshire Studies the Impact  
of Wearing a TechNiche Cooling Vest on a 40km  
Time Trail

**Four key findings came out of this study:**

1. Performance improved by 5.56% when wearing a TechNiche Cooling Vest.
2. The mean body temperature was found to be significantly lower when wearing a TechNiche Cooling Vest, helping to avoid heat stress and improving the users Safety.
3. The mean power output was found to be significantly greater when wearing a TechNiche Cooling Vest.
4. Study participants felt more alert, and more Comfortable when wearing a TechNiche Cooling Vest during the time trial.



## 6529

### TechNiche Evaporative Cooling

#### SPORT VEST

Powered by HyperKewl™ PLUS



- Simple V-neck with zipper closure; works for a wide range of people and uses
- Can provide 5-10 hours of cooling relief per soaking
- Lightweight, easy to activate, and durable
- Comfortable quilted nylon exterior with HyperKewl™ PLUS fabric interior, water repellent nylon liner, and black poly-cotton trim
- Adult Sizes: XS, S, M, L, XL, 2XL, 3XL, Custom
- Child Sizes: 5-6 Years Old, 7-9 Years Old, 10-12 Years Old
- Colors: Black, Blue, Silver, Khaki, Hi-Viz Lime (polyester exterior)



POWERED BY

**HYPERKEWL™ PLUS**

**6530**

TechNiche Evaporative Cooling

**DELUXE SPORT VEST**

Powered by HyperKewl™ PLUS

- High mandarin collar for additional cooling relief and sun protection with zipper front vest closure
- Handy zipper front pockets
- Can provide 5-10 hours of cooling relief per soaking
- Lightweight, easy to activate and durable
- Comfortable quilted nylon outer with HyperKewl™ PLUS fabric interior, water repellent nylon liner, and black poly-cotton trim
- Sizes: XS, S, M, L, XL, 2XL, 3XL, Custom
- Colors: Black, Blue, Silver



**6530F**

TechNiche Evaporative Cooling

**FEMALE DELUXE SPORT VEST**

Powered by HyperKewl™ PLUS

- Designed specifically for the female form
- Fitted front seams and a gathered waist
- High mandarin collar for additional cooling relief and sun protection
- Handy front pockets with zipper closure
- Can provide 5-10 hours of cooling relief per soaking
- Lightweight, easy to activate, and durable
- Comfortable quilted nylon exterior with HyperKewl™ PLUS fabric interior, water repellent nylon liner, and black poly-cotton trim
- Women's Sizes: S, M, L, XL, 1X, 2X, Custom
- Colors: Black, Blue, Silver, Khaki

**DESIGNED  
SPECIFICALLY  
FOR  
WOMEN!**



Back



Cinched back creates a fit that accentuates natural curves





## 6201

### TechNiche Evaporative Cooling **KEWLSHIRT - TANK TOP** Powered by HyperKewl™ PLUS

- Traditional tank top styling, made with nylon breathable mesh, HyperKewl™ PLUS fabric interior and waterproof nylon liner
- Designed to be worn against the skin for maximum cooling effect with ventilation panels built into the front and back
- Best worn underneath a breathable sports jersey or on its own
- Can provide 5-10 hours of cooling relief per soaking
- Lightweight, easy to activate, and durable
- Sizes: XS, S, M, L, XL, 2XL, 3XL, Custom
- Colors: Black/Blue, Black/Teal, Black/HV Lime, and Black/Silver



Back

## 6202

### TechNiche Evaporative Cooling **KEWLSHIRT - T-SHIRT** Powered by HyperKewl™ PLUS

- Traditional t-shirt styling, made with nylon, Spandex, HyperKewl™ PLUS fabric interior and waterproof nylon lining
- Designed to be worn against the skin for maximum cooling effect
- Best worn underneath a breathable sports jersey or on its own
- Can provide 5-10 hours of cooling relief per soaking
- Lightweight, easy to activate, and durable
- Sizes: XS, S, M, L, XL, 2XL, 3XL, Custom
- Colors: Black/Blue



POWERED BY

# HYPERKEWL™ PLUS



## 6538

TechNiche Evaporative Cooling  
**TRAFFIC SAFETY VESTS ANSI CLASS II**  
Powered by HyperKewl™ PLUS

ANSI  
CLASS II

- ANSI Compliant Class II Traffic Safety Vest
- Hook and loop front closure
- Polyester exterior with HyperKewl™ PLUS fabric interior, and water repellent nylon liner
- Multiple front pockets for storage
- Provides 5-10 hours of cooling relief per soaking
- Sizes: L/XL and 2XL/3XL
- Colors: Hi-Viz Lime, Hi-Viz Orange

*Note: European Standard Evaporative Cooling Traffic safety vest also available.*



## 6550T

TechNiche Evaporative Cooling  
**PULLOVER VESTS**  
Powered by HyperKewl™ PLUS

**NEW!**

- Pullover style vest
- String tie closure on sides
- HyperKewl™ PLUS fabric interior (68% polyester, 32% polymer)
- 100% Taslan water repellent nylon interior liner
- 100% polyester ANSI CL II Compliant fabric Exterior
- Can provide 5-10 hours of cooling relief per soaking
- Lightweight, easy to activate, and re-usable
- Sizes: M/L , L/XL
- Colors: Hi-Viz Lime



## 6525

### TechNiche Evaporative Cooling **NECK SHADE**

Powered by HyperKewl™ PLUS



- Keep your neck cool, comfortable and protected from the sun's harmful rays; hook and loop conveniently attaches to hard hat liner (hard hat not included)
- Comfortable quilted Hi-Viz Lime polyester exterior, HyperKewl™ fabric interior, water repellent nylon liner and black poly-cotton trim; elastic straps with hook and loop attachments
- Provides 5-10 hours of cooling relief per soaking
- Light weight and durable
- Size: Adult
- Color: Hi-Viz Lime

## 6534

### TechNiche Evaporative Cooling **CROWN COOLERS**

Powered by HyperKewl™ PLUS



- Hook and loop attaches easily to hard hat liner (hard hat not included)
- Provides 5-10 hours of cooling relief per soaking
- Lightweight and durable
- Comfortable, polyester mesh Exterior with HyperKewl™ PLUS fabric interior
- Water repellent nylon liner
- Color: Blue
- Size: Adult



## 6535

### TechNiche Evaporative Cooling **CROWN COOLER WITH NECK SHADE**

Powered by HyperKewl™ PLUS



- Protect the head and neck from dangerous heat and sun while on the job; easily attaches to hard hat liner (hard hat not included)
- Comfortable quilted Hi-Viz Lime polyester outer, HyperKewl™ PLUS fabric interior, water repellent nylon liner and black poly-cotton trim; elastic straps with hook and loop attachments
- Provides 5-10 hours of cooling relief per soak
- Size: Adult
- Color: Hi-Viz Lime



POWERED BY

**HYPERKEWL™ PLUS**

**6521**

TechNiche Evaporative Cooling

**BROW PAD**

Powered by HyperKewl™ PLUS

- Made with 100% Polyester Cool Mesh for enhanced performance
- Rear elastic panel ensures a comfortable fit for all
- Provides 5-10 hours of cooling relief per soaking
- Lightweight and durable
- Comfortable, polyester mesh with HyperKewl™ PLUS fabric interior
- Color: Blue
- Size: One Size



**6597**

TechNiche Evaporative Cooling

**BUMP CAP**

Powered by HyperKewl™ PLUS



- HyperKewl™ PLUS material is integrated directly into hat panels
- Provides 5-10 hours of cooling relief per soaking
- Lightweight and durable, includes mesh vents for air circulation
- 6 panel hat designed specifically for people working outdoors
- Polyester Hi-Viz lime exterior mesh, with HyperKewl™ PLUS fabric interior and water repellent nylon liner
- Low Profile Hook and Loop size adjustment
- Colors: Hi-Viz Lime with reflective tape
- Size: Adult

## 6536

TechNiche Evaporative Cooling

### SKULL CAP

Powered by HyperKewl™ PLUS

- Made with 100% Polyester Cool Mesh exterior for enhanced performance
- Tie fasten in back ensures a comfortable fit for all
- Provides 5-10 hours of cooling relief per soaking
- Light-weight and durable
- Comfortable, polyester mesh with HyperKewl™ PLUS fabric interior
- Colors: Black, Blue, USA Flag, Hi-Viz
- Size: Adult



## 6522

TechNiche Evaporative Cooling

### BEANIES

Powered by HyperKewl™ PLUS

- Made with 100% Polyester Cool Mesh for enhanced performance
- Rear elastic panel ensures a comfortable fit for all
- Provides 5-10 hours of cooling relief per soaking; Light-weight and durable
- Comfortable, polyester mesh with HyperKewl™ fabric interior
- Colors: Black, Blue, USA Flag, Hi-Viz Lime
- Size: Adult





POWERED BY

**HYPERKEWL™ PLUS**

**6595**

TechNiche Evaporative Cooling

**HI-VIZ CAP**

Powered by HyperKewl™ PLUS

- HyperKewl™ PLUS material is integrated directly into hat panels
- Provides 5-10 hours of cooling relief per soaking
- Lightweight and durable, includes mesh vents for air circulation
- Polyester Hi-Viz lime exterior mesh, wit HyperKewl™ PLUS fabric interior and water repellent nylon liner
- Low Profile Hook and Loop size adjustment
- Designed specifically for people working outdoors
- Color: Hi-Viz Lime with reflective tape
- Size: Adult



**6594**

TechNiche Evaporative Cooling

**6 PANEL BASEBALL CAP**

Powered by HyperKewl™ PLUS

- HyperKewl™ PLUS material is integrated directly into hat panels
- Provides 5-10 hours of cooling relief per soaking
- Lightweight and durable
- Includes mesh vents for air circulation
- Mesh polyester exterior, with HyperKewl™ PLUS fabric interior and water repellent nylon liner
- Low Profile Hook and Loop size adjustment
- Designed specifically for people working outdoors
- Colors: Khaki, Custom (Add company logo for customized cap)
- Size: Adult



Custom Logo



### 6593

#### TechNiche Evaporative Cooling **SPORT CAP**

Powered by HyperKewl™ PLUS

- HyperKewl™ PLUS material is integrated directly into hat panels
- Provides 5-10 hours of cooling relief per soaking
- Lightweight and durable
- Includes mesh vents for air circulation
- Mesh polyester exterior, with HyperKewl™ PLUS fabric interior and water repellent nylon liner
- Low Profile Hook and Loop size adjustment
- Colors: Blue/White, Black
- Size: Adult



### 6596

#### TechNiche Evaporative Cooling **ULTRA SPORT CAP**

Powered by HyperKewl™ PLUS

- HyperKewl™ PLUS material is integrated directly into the hat panels and neck shade
- Provide 5-10 hours of cooling relief per soaking
- Lightweight and durable
- Includes mesh vents for air circulation
- Mesh polyester exterior, with HyperKewl™ PLUS fabric interior and water repellent nylon liner
- Low profile hook and loop size adjustment
- Size: Adult
- Color: Khaki



POWERED BY

**HYPERKEWL™ PLUS**

**NEW  
DESIGN!**



**6591**

TechNiche Evaporative Cooling

**RANGER CAP**

Powered by HyperKewl™ PLUS

- Made with 100% cotton outer (Khaki & Real Tree), or 100% Polyester (Hi-Viz)
- Adjust with convenient strap cinch
- Provides 5-10 hours of cooling relief per soaking
- Lightweight and durable
- Comfortable, breathable exterior with HyperKewl™ PLUS fabric interior and water repellent liner
- Color: Khaki, Hi-Viz Lime(6591-HV)
- Sizes: S/M, L/XL, 2XL/3XL

**6573**

TechNiche Evaporative Cooling

**WRIST WRAPS**

Powered by HyperKewl™ PLUS

- Made with 100% polyester mesh for maximum comfort
- Hook and loop closure; ideal for use under uniforms
- Provide 5-10 hours of cooling relief per soaking
- Sold in pairs
- Color: Blue, Black, Hi-Viz Lime
- Size: Adult



## 6519

### TechNiche Evaporative Cooling

#### NECK BAND

Powered by HyperKewl™ PLUS

- Made with 100% Polyester Cool Mesh and HyperKewl™ PLUS for enhanced performance
- Economical and effective
- Made using quick-release snap for user safety
- Provides 5-10 hours of cooling relief per soaking
- Lightweight, durable, and easy to activate
- Colors: Blue, Black, Pink, Khaki, USA Flag, Hi-Viz Lime
- Size: Adult



## 6520

### TechNiche Evaporative Cooling

#### DELUXE NECK BAND

Powered by HyperKewl™ PLUS

- Made with 100% cotton and HyperKewl PLUS Low profile hook and loop closure; ideal for use under uniforms
- Wider than standard neckband for additional cooling coverage
- Provides 5-10 hours of cooling relief per soaking
- Color: Blue, custom
- Size: Adult





POWERED BY

**HYPERKEWL™ PLUS**



# FIRE RESISTANT COOLING

POWERED BY

**HYPERKEWL™ PLUS**

A new range of products that are ideally suited for firefighters, rescue workers, oil rigs, factories & hazardous workplaces.

MADE WITH



## 6529-HV-FR

TechNiche Evaporative Cooling

### FIRE RESISTANT VEST

Powered by HyperKewl™ PLUS

- Simple V-neck with zipper closure; works for a wide range of people and uses
- Can provide 5-10 hours of cooling relief per soaking
- Lightweight, easy to activate, and durable
- Made using **Banwear from ITEX**, comfortable quilted nylon exterior with HyperKewl™ PLUS fabric interior, water repellent nylon liner, and black poly-cotton trim
- Adult Sizes: XS, S, M, L, XL, 2XL, 3XL, Custom
- Colors: Hi-Viz Orange



### 6525-HV-FR

TechNiche Evaporative Cooling

#### FIRE RESISTANT NECK SHADE

Powered by HyperKewl™ PLUS

- Utilizes TechNiche patented HyperKewl technology in a line of FR products
- Ideal for Oil and Gas
- Made using **Banwear from Itex**
- Provides 5-10 hours of cooling relief per soaking
- Light-weight and durable
- Color: Hi-Viz Orange
- Size: Adult



### 6522-HV-FR

TechNiche Evaporative Cooling

#### FIRE RESISTANT BEANIE

Powered by HyperKewl™ PLUS

- Made with Fire Resistant **Banwear from Itex**
- Provides 5-10 hours of cooling relief per soaking
- Lightweight and durable
- Size: Adult
- Color: Hi-Viz Orange



POWERED BY

# HYPERKEWL™ PLUS

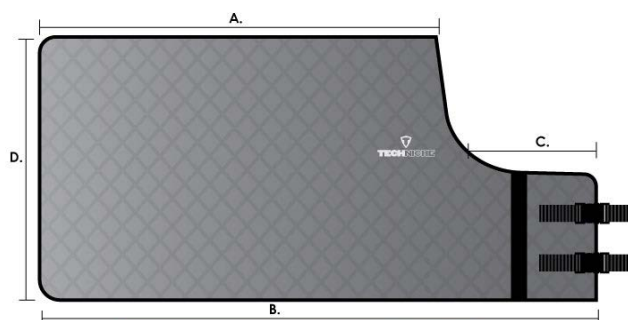
## 8510

TechNiche Evaporative Cooling

### HORSE BLANKET

Powered by HyperKewl™ PLUS

- Two chest straps and two under belly straps secure the blanket to the horse
- Flexible shoulder material allows the horse to move with minimal restriction
- Provides 4-6 hours of cooling relief per soaking; lightweight and durable
- Comfortable, quilted nylon exterior with HyperKewl™ fabric interior, water repellent nylon liner, and black poly-cotton trim
- Sizes: S/M, L/XL
- Colors: Blue, Silver



SIZE	A.	B.	C.	D.
S/M	31.5"	54.5"	19"	27"
L/XL	30"	55.5"	22"	29.5"



## 8550

TechNiche Evaporative Cooling

### HORSE LEG WRAPS

Powered by HyperKewl™ PLUS

- Three hook and loop straps allow you to secure the cooling leg wraps without causing the animal undue stress
- Provides 5-10 hours of cooling relief per soaking; lightweight and durable
- Comfortable, quilted nylon exterior with HyperKewl™ fabric interior, water repellent nylon liner, and black poly-cotton trim
- Sold in Pairs
- Size: One Size (16" high)
- Colors: Blue, Silver



## 8529

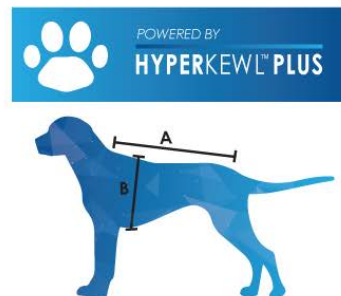
### TechNiche Evaporative Cooling DOG COATS

Powered by HyperKewl™ PLUS

- Secured at the chest and under the belly, this unique vest keeps your dog cool on hot days while running and playing
- Flexible shoulder panels allow the dog to move without restriction
- Provides 5-10 hours of cooling relief per soaking; extremely lightweight and durable
- Comfortable, quilted nylon exterior with HyperKewl™ PLUS fabric interior, waterproof nylon liner, and black poly-cotton trim
- Sizes: XS, S, M, L, XL, XXL
- Colors: Blue, Silver



#8529 Evaporative Cooling Dog Coat						
Vest Size	XS	S	M	L	XL	XXL
Back Length (A)	up to 8"	9-12"	13-16"	17-20"	21-24"	25-30"
Girth (B)	12-20"	18-26"	22-32"	26-36"	28-38"	30-42"
Approximate Dog Weight	10lbs	25lbs	40lbs	70lbs	95lbs	120lbs
Typical Breed	Miniature	Spaniel	Beagle	Retriever	Rottweiler	Great Dane



## 8511

### TechNiche Evaporative Cooling DOG PAD

Powered by HyperKewl™ PLUS

- Great way to cool down your pet on a hot day; can be used indoors or outside
- Provide 5-10 hours of cooling relief per soaking; extremely lightweight and durable
- Comfortable, quilted nylon exterior with HyperKewl™ fabric interior, waterproof nylon liner, and black poly-cotton trim
- Sizes: XS, S, M, L, XL, XXL
- Colors: Blue, Silver



#8511 Evaporative Cooling Dog Pad						
Pad Size	XS	S	M	L	XL	XXL
Width (of pad)	15"	19"	21"	23"	28"	32"
Length (of pad)	20"	24"	30"	36"	42"	48"



POWERED BY

# HYPERKEWL™ PLUS SIZE CHARTS

## #6529 TechNiche Evaporative Cooling Sport Vest

Size	XS	S	M	L	XL	XXL	XXXL
Chest	31-33"	34-36"	37-39"	40-42"	43-45"	46-48"	49-51"
Front Length (back is 2" longer)	20"	20.5"	21"	21.5"	22"	23.5"	25"

## #6529 TechNiche Evaporative Cooling Child Sport Vest

Size	5- 6 Years Old	7-9 Years Old	10-12 Years Old
Chest	25-27"	27-29"	29-31"
Front Length (back is 2" longer)	15"	17"	19"

## #6530 TechNiche Evaporative Cooling Deluxe Sport Vest

Size	XS	S	M	L	XL	XXL	XXXL
Chest	31-33"	34-36"	37-39"	40-42"	43-45"	46-48"	49-51"
Front Length (back is 2" longer)	20"	20.5"	21"	21.5"	22"	23.5"	25"

## #6530F TechNiche Evaporative Cooling Deluxe Female Sport Vest

Size	S	M	L	XL	1XL	2XL
Bust	32.5"	36"	40"	42"	44"	48"
Waist	25"	28"	32"	34"	36"	40"
Hip	34.5"	38"	42"	44"	46"	50"

## #6201/#6202 TechNiche Evaporative Cooling KewlShirt

Size	XS	S	M	L	XL	XXL	XXXL
Chest	31-33"	34-36"	37-39"	40-42"	43-45"	46-48"	49-51"
Front Length (back is 2" longer)	19"	20"	21"	22"	23"	24"	25"

## #6538 TechNiche Evaporative Cooling Traffic Safety Vest

Size*	S/M	L/XL	XXL/XXXL
Chest	48-50"	52-54"	56-58"
Front Length (same front & Back)	24-25"	26-27"	28-29"

\*This Style is designed to fit loosely

#6550T TechNiche Evaporative Cooling PULLOVER VEST		
Size	M/L	L/XL
Chest	31-33"	34-36"
Length	19"	20"

#### #6591 Evaporative Cooling Ranger Cap

Hat Size	Head Sizes	
	Inches	Centimeters
S/M	21 <sup>1</sup> / <sub>2</sub>	54
	21 <sup>5</sup> / <sub>8</sub>	55
	22 <sup>1</sup> / <sub>4</sub>	56
L/XL	22 <sup>1</sup> / <sub>2</sub>	57
	23	58
	23 <sup>3</sup> / <sub>8</sub>	59
2XL/3XL	23 <sup>3</sup> / <sub>4</sub>	60
	24	61
	24 <sup>3</sup> / <sub>8</sub>	62

#### #6593 Sport Cap

	Inches	Centimeters
Size Range	21.5-25.5	54-65

#### #6594 Cooling Cap

	Inches	Centimeters
Size Range	21.5-25.5	54-65

POWERED BY

**KEWLTOWEL™**

## WHAT IS KEWLTOWEL™?

KewlTowel™ is designed to keep you cool and refreshed. An activated KewlTowel™ is wiped on exposed skin surfaces to provide a cool and refreshing boost of energy.

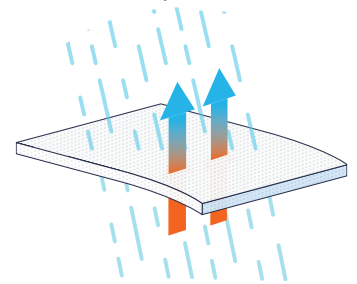
KewlTowel™ PRO is made using highly absorbent PVA (polyvinyl alcohol) material with a special dimple design for more effective water absorption and evaporation.

Our KewlTowel™ ULTRA is made with NEW 100% Polyester Cool Knit Fabric for enhanced performance.

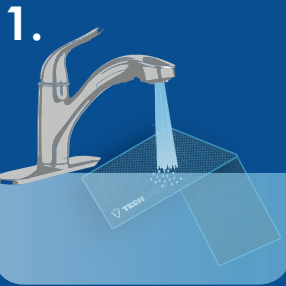
## BEHIND THE TECHNOLOGY

KewlTowel™PRO utilizes PVA technology to absorb water and provide cooling in a towel format.

KewlTowel™ ULTRA will remain hydrated for hours and is easy to reactivate.



## HOW TO ACTIVATE



1. Soak KewlTowel™ in clean water for 1 minute



2. Gently squeeze out the excess water



3. Wipe exposed skin to create natural cooling effect

## KEWLTOWEL™ PRO FEATURES:

- Low cost cooling
- Easy to use and reuse over and over
- Simply soak for 2-3 mins
- Lightweight, non-toxic and durable
- Towel size: 12" x 28"
- Color: Blue

## KEWLTOWEL™ ULTRA FEATURES:

- Made with NEW 100% polyester Cool Knit fabric for enhanced performance
- Economical and effective
- Lightweight, non-toxic and durable
- Convenient & compact packaging
- Towel Size: 10" x 36"
- Color: Ice Blue



## 6101

TechNiche Evaporative Cooling

### KEWLTOWEL PRO

Powered by KewlTowel™

- Made from highly absorbent PVA material with dimple design
- Will remain hydrated for hours and is easily activated
- Lightweight, easy to activate, and durable
- Ideal for those working or recreating outside
- Unit = 1 towel (bulk quantities are available)
- Size: 12" X 28"
- Colors: Blue



## 6102

TechNiche Evaporative Cooling

### KEWL TOWEL ULTRA

Powered by KewlTowel™

- Made with NEW 100% Polyester Cool Knit Fabric for enhanced performance
- Economical and effective
- Lightweight, durable and easy to activate  
Convenient & Compact Packaging
- Towel Size: 10" (25 cm) X 36" (91 cm)
- Colors: Ice Blue
- Available in a 25 piece display case



# PHASE CHANGE COOLING TECHNOLOGY

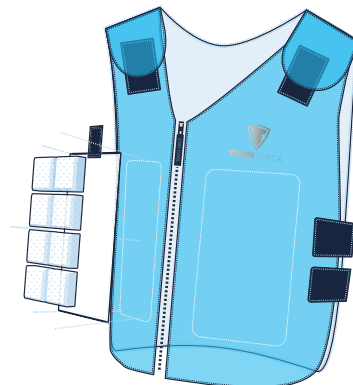
POWERED BY

# COOLPAX™

## WHAT IS COOLPAX™?

CoolPax™ products are designed to provide targeted temperature cooling using advanced phase change cooling materials. Our CoolPax™ cooling technology is non-toxic and non-flammable.

CoolPax™ freezes at 58°F/14°C and stays at that temperature for 2-3 hours. Compared to water, CoolPax™ activate faster, stay cool longer, are lighter in weight, and remain a cool and comfortable temperature that will not cause ice burn.



## HOW TO ACTIVATE

1.



1. Place CoolPax™ inserts in freezer, or ice water for 35/40 minutes

2.



2. Insert activated CoolPax™ into garment pockets

3.

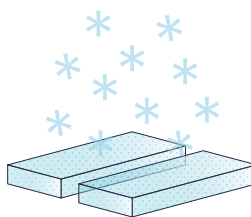
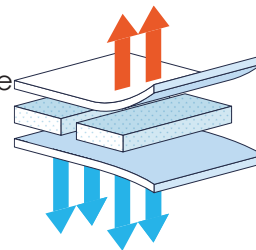


3. CoolPax™ vest or accessory is ready to wear!

## BEHIND THE TECHNOLOGY

TechNiche utilizes high purity alkane materials to achieve targeted temperature cooling. Our Phase Change Cooling Materials (PCM) are non-toxic, non-flammable and non-combustible.

In our advanced manufacturing procedures, these PCM's are sealed inside high strength polyurethane to ensure they do not leak. These durable CoolPax™ inserts are deployed in a variety of shapes and sizes, to ensure personal comfort and achieve maximum cooling results. This personal cooling technology can be deployed in a variety of occupational, recreational and competitive settings.



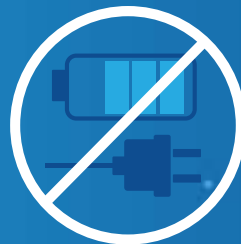
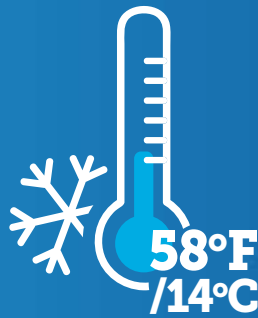
TechNiche Phase Change Cooling inserts are activated in ice water or the freezer. They will re-charge in any environment where the temperature is below 58°F (14°C). This unique feature means that with the use of ice in a cooler, users can re-activate inserts

by simply placing them in a cooler full of ice, no need for electricity.

**PLEASE NOTE:** Phase Change Material solidifies from the outside in, so they may look solid after 15 minutes, but need the full 45 minutes to be solid and activated all the way through for maximum duration.

## BENEFITS

- Provides cooling of 58°F / 14°C
- 2-3 hours of cooling per activation
- Non-toxic, non-flammable and non-combustible
- Freezes at 58°F/14°C
- Freezes faster than water (30-40 mins)
- Lighter than water
- Works in all temperatures & all humidity levels
- Targeted heating for key heat zones
- Promotes comfort and enhances performance
- Lightweight, durable, and reusable
- Can be activated in ice water (no electricity required!)
- Built in hook and loop stabilizers to prevent sagging of inserts
- Easily transportable
- Efficient form of pre- and post- cooling on the go
- Can be worn under military gear, firefighter gear, hazardous material suits, mascot costumes, and other apparel
- Maintains a consistent cooling temperature that won't cause ice burn



	H2O Cooling Packs	Other Phase Change Products	CoolPax™ Phase Change Cooling Inserts
Cooling Material	Water	Low Grade Alkanes or Plant & Animal Fats	High Purity Alkanes
Plastic Encasement	PVC	Standard Polyurethane	High Strength Polyurethane with UV Stabilizers
Cooling Vest Style	Basic Vest	Basic Pull Over	Multiple Styles Contoured Design
Cool Pack Position Stabilizers	No	No	Yes
Vacu-From & Multi-Shape Design	No	Yes	Yes
Standard Product Includes Insulated Cooler Bag	No	No	Yes
Cooling Pack Life Span	1+ Years	3+ Years	10+ Years
Warranty			1 Year



POWERED BY

COOLPAX™

PHASE CHANGE  
COOLING TECHNOLOGY



### 6626

#### TechNiche Phase Change Cooling VEST

Powered by CoolPax™

- V-neck with zipper closure
- Hook and loop girth and shoulder adjustments
- 100% cotton vest, with thermal liner
- Includes: One set of four (4) 6665-V CoolPax™ Cooling Inserts, and one cooler bag
- Deploy extra CoolPax™ Cooling Inserts to achieve continuous cooling
- Total Weight: 2.7kg (including 6665V CoolPax™ Inserts)
- Insert Compatibility: 6665-V, 7065-V
- Sizes: M/L (45-80kg), L/XL (80-113kg), 2XL (113-136kg)
- Colors: Blue, Black, Khaki



## 6626-LT

### TechNiche Phase Change Cooling LITE VEST

Powered by CoolPax™



- Scoop neck with zipper closure
- Elastic side panels allow for a snug fit with no strings or ties, thereby reducing the risk of catching or snagging
- Front pockets with zippered closure
- 100% Cotton vest, with mesh ventilation
- Includes one cooler bag and one set of four (4) 7065-V CoolPax Cooling Inserts
- Deploy extra CoolPax™ Cooling Inserts to achieve continuous cooling
- Total Weight: 2kg/4.4lbs (including 7065V CoolPax™ Cooling Inserts)
- Insert Compatibility: 7065-V
- Sizes: M/L, XL/2XL, 3XL/4XL
- Colors: Black



## 6626F-PEV

### TechNiche Phase Change Cooling PERFORMANCE ENHANCEMENT VEST

Powered by CoolPax™

- Front Zipper
- Adjustable side gusset for optimal fit on all body shapes
- 100% cotton vest - provides comfort and wash-ability
- Includes one set of 4 CoolPax™ inserts
- Insulated cooler carrying bag included - helps keep CoolPax™ colder longer
- Insert Compatibility: 7065-V
- Sizes: XS/S, M/L, XL/1X, 2X/3X
- Color: Black

POWERED BY

COOLPAX™

ANSI  
CLASS II

**6626-HV**

TechNiche Phase Change Cooling  
**ANSI CLASS II HI VIZ VEST**  
Powered by CoolPax™

NEW  
LOOK!



- High Visibility, ANSI Class II cooling vest
- 100% Hi-Viz Lime polyester, 100% cotton interior liner made with thermal liner
- Includes one cooler bag and one set of four (4) 6665-V CoolPax™ Inserts
- Total Weight: 6.4lbs/2.9kg (including 6665-V CoolPax™ Inserts)
- Insert Compatibility: 6665-V and 7065-V
- Sizes: M/L (45-80kg), L/XL (80-113kg), 2XL (113-136kg), Custom
- Color: Hi-Viz Lime with Silver Reflective Tape

PHASE CHANGE  
COOLING TECHNOLOGY



**6627**

TechNiche Phase Change Cooling  
**VEST W/BUILT IN HYDRATION SYSTEM**  
Powered by CoolPax™

- Each unit includes vest/carrier, set of 6665-V CoolPax™ Cooling Inserts, built-in hydration reservoir with drink tube and bite valve and cooler bag
- V-neck design with zipper closure, hook and loop girth and shoulder adjustments
- 100% cotton vest, with thermal liner
- Includes integrated 70 oz/2 L personal hydration system (6660)
- Sizes: M/L (100-175 lbs), L/XL (175-250 lbs), 2XL (250-300 lbs)
- Color: Blue

**#6660**

TechNiche  
**REPLACEMENT HYDRATION SYSTEM**







# FIRE RESISTANT COOLING

POWERED BY  
**COOLPAX™**

## 6626-I

TechNiche Phase Change Cooling

### FIRE RESISTANT VEST

Powered by CoolPax™

- Same features as the 6626, vest/carrier is made from fire resistant cotton **Banwear™**
- Includes one set of 6665-V Cool Pax™ Cooling Inserts and one cooler bag
- Total Weight: 6.6lbs/3kgs (including 6665-V Cool Pax™ Cooling Inserts)
- Insert Compatibility: 6665-V, 7065-V
- Sizes: M/L (45-80kg), L/XL (80-113kg), 2XL (113-136kg), Custom
- Color: Blue



PHASE CHANGE  
COOLING TECHNOLOGY



## 6626-N

TechNiche Phase Change Cooling

### NOMEX FIRE RESISTANT VEST

Powered by CoolPax™

- Same features as the 6626, vest/carrier is made from **Nomex™**
- Includes one set of 6665-V CoolPax™ Cooling Inserts and one cooler bag
- Total Weight: 6.4lbs/2.9kgs (including 6665 CoolPax™ Cooling Inserts)
- Insert Compatibility: 6665V, 7065V
- Sizes: M/L (45-80kg), L/XL (80-113kg), 2XL (113-136kg), Custom
- Color: Blue

## 6826

TechNiche Phase Change

### FIRE RESISTANT WATER BASED COOLING VEST

- For those requiring ultimate flammability protection
- Water Based Cooling Inserts maintain a temperature of 32°F (0°C) for up to one hour
- Vest/carrier is made with **BanWear™** fire resistant cotton
- Includes one set of Water Based Cooling inserts (6865) and Fire Resistant Vest
- Sizes: M/L (100-175 lbs), L/XL (175-250 lbs), 2XL (250-300 lbs)
- Color: Blue



POWERED BY

COOLPAX™



### 6621

TechNiche Phase Change Cooling

#### **BROW COOLER**

Powered by CoolPax™

- Hook and loop attaches easily to hard hat harness (hard hat not included)
- CoolPax™ Phase Change Cooling inserts maintain a comfortable 58°F (14°C)
- 100% Cotton carrier, Polyurethane Insert Includes one (1) brow pad cooler and one(1) 6663 Cool Pax™ Insert
- Size: Adult
- Color: Blue

### 6663

TechNiche Phase Change Cooling

#### **BROW COOLER CoolPax™ Inserts**

- Use additional inserts for continuous relief from the heat
- Inserts sealed in high strength polyurethane
- Compatible with 6621 Phase Change cooling Brow Pad powered by CoolPax™



### 6622

TechNiche Phase Change Cooling

#### **CROWN COOLER**

Powered by CoolPax™.

- Hook and loop attaches easily to hard hat liner(hard hat not included)
- CoolPax™ Phase Change Cooling inserts maintain a comfortable 58°F (14°C)
- Includes one (1) crown cooler and one (1) 6664 Cool Pax™ Insert
- Size: Adult
- Color: Blue



### 6664

TechNiche Phase Change Cooling

#### **CROWN COOLER CoolPax™ Inserts**

- Use additional inserts for continuous relief from the heat
- Inserts sealed in high strength polyurethane
- Compatible with 6622 Phase Change cooling Crown Cooler powered by CoolPax



## 6619

TechNiche Phase Change Cooling

### NECK BAND

Powered by CoolPax™

- Tie fasten, Cool Pax™ Phase Change Cooling inserts maintain a comfortable 58°F (14°C)
- 100% Cotton carrier, Polyurethane Insert
- Includes one(1) Neck Band and one (1) 6661 CoolPax™ Insert
- Size: Adult
- Colors: Blue



## 6661

TechNiche Phase Change Cooling

### NECK BAND CoolPax™ Inserts

- Use additional inserts for continuous relief from the heat
- Inserts sealed in high strength polyurethane
- Compatible with 6619 Phase Change cooling Neckband powered by CoolPax™



## 6620

TechNiche Phase Change Cooling

### DELUXE NECK BAND

Powered by CoolPax™

- Hook and loop closure for a lower profile fit
- CoolPax™ Phase Change Cooling inserts maintain a comfortable 58°F (14°C)
- 100% Cotton carrier, Polyurethane Insert Includes one (1) Neck Band and one (1) 6662 Cool Pax™ Insert
- Size: Adult
- Color: Blue

## 6662

TechNiche Phase Change Cooling

### NECK BAND CoolPax™ Inserts

- Use additional inserts for continuous relief from the heat
- Inserts sealed in high strength polyurethane
- Compatible with 6620 Phase Change cooling Deluxe Neck Band powered by CoolPax





POWERED BY

COOLPAX™

VEST  
INSERTS**BOOST TECHNICHE PHASE CHANGE COOLING  
WITH COOLPAX™ ACCESSORIES & REFILLS**

Use additional inserts for continuous relief from the heat.

**6665-V**

TechNiche Phase Change Cooling

**COOLPAX™ EXTRA INSERTS w/ HOOK & LOOP STABILIZERS**

- Safe, effective, and comfortable
- Use additional inserts for continuous relief
- Maintains a comfortable 58°F (14°C) for up to 3 hours
- Made from a high strength polyurethane
- Hook and loop stabilizers to secure packs in place
- Includes 4 Phase Change Cooling Inserts per set
- Total weight: 5 lbs
- Compatible with: 6626, 6626I, 6626N, 6626HV, 6627

**6665-EXT**

TechNiche Phase Change Cooling

**COOLPAX™ EXTRA INSERTS w/ EXTENDED DURATION**

- Safe, effective, and comfortable
- Use additional inserts for continuous relief
- Maintain a comfortable 58°F (14°C) for up to 4 hours
- Made from a high strength polyurethane
- Includes 4 Phase Change Cooling Inserts per set
- Total weight: 7 lbs
- Compatible with: 6626, 6626I, 6626N, 6626HV, 6627



## VEST INSERTS



### **7065-V**

TechNiche Phase Change Cooling  
**COOLPAX™ EXTRA INSERTS**  
w/ **HOOK & LOOP STABILIZERS**

- Safe, effective, and comfortable
- Use additional inserts for continuous relief
- Maintain a comfortable 58°F (14°C) for up to 3 hours
- Made from high strength polyurethane
- Hook and loop stabilizers to secure packs in place
- Includes 4 Phase Change Cooling inserts per set
- Total weight: 4 lbs
- Compatible with: 4531, 6626 series, or 6627

### **6865**

TechNiche Phase Change Cooling  
**H<sub>2</sub>O INSERTS**

- Activated by placing in the freezer, use additional inserts for continuous relief
- Water based Cooling Inserts maintain a temperature of 32°F (0°C) for up to one hour
- Includes 4 Water Based Cooling Inserts per set
- Weight: 6 lbs
- Compatible with: 6826



# POWERED BY COOLPAX™

## 8626

TechNiche Phase Change Cooling

### DOG COATS

Powered by CoolPax™

- Ideal for working dogs (police, military, etc.) or other canines that work or recreate in high heat conditions
- Exterior Material is 100% cotton
- 58°F (14°C) CoolPax™ are great for all climates
- Activates quickly, and will last for hours
- Sizes: S/M (1 Cool Pax™), M/L (2 Cool Pax™)  
L/XL (3 Cool Pax™)
- Colors: Blue, Khaki



## 8665

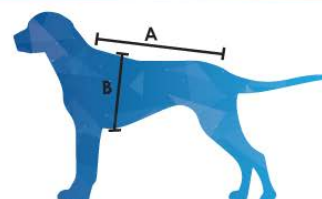
TechNiche Phase Change Cooling

### COOLPAX™ EXTRA INSERTS FOR DOG COAT

- 58°F (14°C) Cool Pax™ are great for all climates
- Activates quickly, and will last for hours
- Sizes: S/M (1 CoolPax™)  
M/L (2 CoolPax™)  
L/XL (3 CoolPax™)
- Compatible with #8626



#8626 TechNiche CoolPax™ Cooling DOG COAT				
Size	Number of CoolPax	Back Measurement	Approx. Dog Weight	Typical Breed
Small/Medium	One	14"-16"	10 - 20lbs	Beagle
Medium/Large	Two	16"-20"	40 - 70lbs	Retriever
Large/Extra Large	Three	20"-28"	95 - 120lbs	Shepherd





POWERED BY

# COOLPAX™ SIZE CHARTS

## #4531 TechNiche HYBRID Cooling Sport Vest Powered by CoolPax & HyperKewl

Size	S	M	L	XL	XXL	XXXL
Chest	36"	38"	40"	43"	45"	48"
Front Length	22"	23"	24"	25"	26"	26"

## #6626 TechNiche Phase Change Cooling VEST & #6627 TechNiche Phase Change Cooling VEST WITH HYDRATION SYSTEM

Size	M/L	L/XL	XXL
Waist	36-46"	40-50"	46-56"
Weight	110-175 lbs (45-79 kgs)	175-250lbs (79-113kgs)	250-300lbs (113-136kgs)
Length	15-21"	17-23"	21-27"

## #6626LT TechNiche Phase Change Cooling LITE VEST

Size	M/L	XL/2XL	3XL/4XL
Shoulder	18.5"	19.5"	20"
Chest	22"	24"	26"
Length	25.5"	26.5"	27"

## #6626F-PEV TechNiche Phase Change Cooling PERFORMANCE ENHANCEMENT VESTS

Size	XS/S	M/L	XL/XXL	3XL/4XL
Chest	30-36"	32-40"	36-44"	40-48"
Torso Length	22.5"	23.5"	24.5"	25.5"

## #6626HV TechNiche Phase Change Cooling ANSI CLASS II HI-VIZ VEST

Size	M/L	L/XL	XXL
Waist	36-46"	40-50"	46-56"
Weight	110-175 lbs (45-79 kgs)	175-250lbs (79-113kgs)	250-300lbs (113-136kgs)
Length	15-21"	17-23"	21-27"

PHASE CHANGE  
COOLING TECHNOLOGY

POWERED BY

COOLPAX™

## COOLPAX™ FOR SPORT PERFORMANCE & WEIGHT LOSS

Our targeted temperature CoolPax™ inserts for vests provide the user with a constant 58°F for 2-3 hours. Research shows this temperature is ideal for both performance athletes looking to get an athletic edge as well as individuals looking to lose weight.

Athletes are able to work out longer, harder and have better overall performance while staying cool and comfortable throughout their training. This specific temperature gradient maximizes the amount of heat that is pulled from the body to moderate core body temperature without causing a vasoconstriction response.

Users are also able to increase the amount of calories they burn by wearing the targeted temperature vest to stimulate brown adipose tissue. *Harvard Medical School* research shows when activated through cool temperatures this tissue has the ability to burn up to 500 calories a day.

Phase Change cooling technology for weight loss: our 58°F (14°C) Cooling Vest stimulates Brown Adipose Tissue (Fat) causing the consumption of calories. According to research done by *Harvard Medical School*, Cooling Vests are a safe and effective way to burn extra calories and lose weight.

**Performance Enhancement:** most people's central organs, specifically the liver, kidneys, and intestines, rise above 101 degrees during exercise. When that happens, water and blood begin to leave your muscles and race to the skin in an attempt to cool you down. This depletes the muscles of oxygen and dehydrates them, causing fatigue. Yet while most athletes reach the 101 degree threshold after just 20 to 30 minutes of exercise, recent studies have shown that cooling beforehand can delay the process significantly.

**Comfort:** Cooling Vests help keep athletes (and regular people) cool and comfortable when they exercise. This enables us all to work out harder and longer, thus increasing the workout benefits.

### 3 BENEFITS WHEN EXPOSED TO 58°F (14°C) COOLING

- 1) Stimulate Brown Fat = Burn Calories
- 2) Improve Athletic Performance = Keeps blood in the muscle
- 3) Cooling Comfort = work out in comfort

## COOLING THE BODY FOR WEIGHT LOSS

- 58°F (14°C) Cooling Vests reliably activate brown fat (Harvard Medical School)
- Activated Brown Fat boosts the rate at which we burn calories by 20% (New England Journal of Medicine)
- Activated Brown Fat may burn an extra 500 calories/day (Harvard Medical School)
- Three ounces of brown fat can burn several hundred calories/day (ObesityInAmerica.org)
- A substantial loss of fat is induced by a combination of exposure to cold and exercise (American Physiological Society)
- Brown adipose tissue is responsible for the successful defense of body temperature without shivering (American Journal of Physiology)
- Brown adipose tissue was visible in the neck, supraclavicular region, chest and abdomen under PET-CT scanning only after the subject was exposed to mild cold exposure (New England Journal of Medicine)
- Mild cold exposure can prevent increases in body weight (Obesity Journal)

## COOLING THE BODY FOR ATHLETIC PERFORMANCE

- CoolPax™ uses a specific temperature gradient that does not cause a vasoconstriction response. The technology remains 58°F (14°C) to maximize the amount of heat pulled from the body to moderate core body temperature. (Stacey Sims PhD, Exercise Physiologist and Thermoregulatory Specialist, Stanford University.)
- Athletes who pre-cool can perform at their highest level, 10 to 20 percent longer than those who don't (Stanford University)  
Run time increased by 17% with pre-cooling (Medical Science Sports Exercise)
- After pre-cooling, less blood is sent to the skin, so more oxygen-rich blood goes to the muscles. (Running Times Magazine)
- Pre-cooling with a cooling vest allows more work to be performed before fatigue is reached (American Physiological Society)
- Pre-cooled athletes were able to sustain higher exercise intensity and provides a distinct thermal advantage for exercise (British Journal of Sports Medicine)
- After pre cooling, subjects saw an increases in heat storage capacity and distance cycled (Charles Sturt University)
- Cooling Vests worn during active warm-up enhances performance & reduces thermal and cardiovascular strain (American Physiological Society)
- Pre-cooling allows a greater rate of heat storage, with the effect of reducing the rate of rise in core temperature (British Journal of Sports Medicine)
- Activation of thermogenesis through brown adipose tissue stimulation is an anti-obesity tool (Stockholm University)
- Brown adipose tissue, depending on its thermogenic activity, may contribute to the control of body fat metabolism in humans (Obesity Journal)



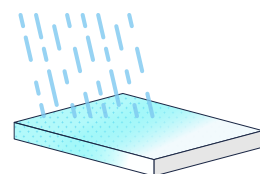
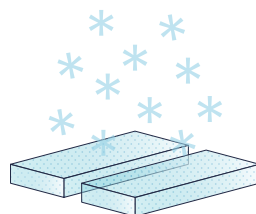
# HYBRID COOLING TECHNOLOGY

POWERED BY

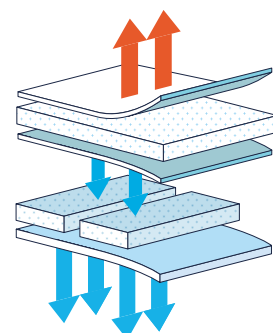
# HYPERKEWL™ PLUS & COOLPAX™

## BEHIND THE TECHNOLOGY

This vest combines the best of our HyperKewl™ PLUS Evaporative Cooling technology with the best of our CoolPax™ Phase Change Cooling Technology, for longer, more effective personal cooling. This modular system is great for underneath protective gear or in situations with limited airflow.



Users can expect the HyperKewl™ PLUS evaporative cooling fabric to provide temperatures that are up to 15 - 20 degrees (F) cooler than the ambient temperature, depending on airflow.



The combination of these two cooling technologies together means longer and more flexible cooling options.

Our hybrid cooling technology combines our two most popular cooling technologies (HyperKewl™ PLUS and CoolPax™) for longer lasting cooling. Used by some of the best athletes around the world for pre-cooling, cooling during the competition, and post cooling for faster recovery.

Our Hybrid Cooling Vests are the choice of people striving to improve their game and be the best they can be.

## HOW TO ACTIVATE

1. Place CoolPax™ inserts in freezer, or ice water for 35/40 minutes



2. Soak Hybrid vest in clean water for 2-3 minutes



3. Gently squeeze out the excess water



4. Insert activated CoolPax™ into garment pockets



5. Hybrid Vest is ready to wear!



**NEW  
LOOK!**

**4531**

## TechNiche Evaporative and Phase Change Cooling HYBRID VEST

Powered by CoolPax™ and HyperKewl™ PLUS



- The combination of our HyperKewl™ PLUS and our CoolPax™ technologies results in longer and more flexible cooling options
- Front zipper closure with mesh ventilation and scoop neck
- Ideal for motocross riders, cyclists, race car drivers and any athlete working to improve performance and minimize the affects of heat fatigue and heat stress
- Includes one set of 7065-V CoolPax™ inserts and one cooler bag
- Can provide several hours of cooling relief per soaking
- Lightweight, easy to activate, and durable
- Comfortable quilted nylon exterior with HyperKewl™ PLUS fabric interior, water repellent nylon liner, and black poly-cotton trim
- Sizes: S, M, L, XL, 2XL, 3XL
- Colors: Blue, Black, Silver



**HYBRID  
COOLING TECHNOLOGY**

## FAMOUS ATHLETES

- Canadian Olympic Teams (Pararugby, Triathlon)
- Australian Olympic Team
- United States Olympic Rowing Team
- KTM Red Bull Factory Team
- Honda World MX Team with Evgeny Bobryshev & Max Nagl.
- Herock Motocross Team
- Monster Energy Kawasaki Team Australia with Kade Mosig.
- McLaren Formula 1 Team
- Ferrari Formula 1 Team
- Alex Tagliani, Indy Pole Winner
- Team Saxo Bank, with Alberto Contador (Tour de France Winner)
- Dutch National Soccer Team 2010 World Cup Finalists
- US Olympic Cycling Team with Lauren Tamayo
- Military including US, Israeli, Dutch and French



# AIR ACTIVATED HEATING TECHNOLOGY

POWERED BY

# HEATPAX™

## WHAT IS HEATPAX™?

HeatPax™ are air activated warmers that deliver hours of warmth and relief from cold weather. Once the package is opened and the HeatPax™ is exposed to oxygen, an exothermic reaction occurs creating heat, thereby, providing an effective defense against the cold.

Combine HeatPax™ warmers with TechNiche fleece garments for maximum warmth. We have combined the reliable technology of our HeatPax™ warmers with our Fleece garments, to give you comfort in cold conditions. Whether at work, rest or play, stay in control of your comfort with our line of fleece garments powered by HeatPax™ products. These products are easy to use and are a cost effective way to beat the winter chill. Use these products to keep warm from head to toe.

## HOW TO ACTIVATE



1. Open package to expose HeatPax™ to air



2. Insert activated HeatPax™ into garment pockets

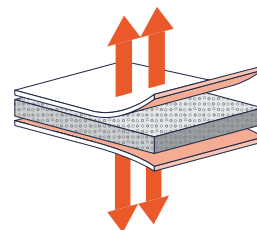


3. Garment is ready to wear! (HeatPax™ may take up to 10 minutes to reach maximum heat)

## BEHIND THE TECHNOLOGY

HeatPax™ warmers are made up of a combination of iron, activated carbon, cellulose, vermiculite, water and salt. These ingredients are wrapped in a container that keeps any oxygen from interacting with the ingredients inside the warmer.

HeatPax™ warmers generate heat through a chemical reaction when these ingredients are combined with air. When the warmer is unwrapped, oxygen is allowed to mingle with the ingredients inside the warmer. When the oxygen hits the iron in the warmer, it causes the iron to oxidize. The chemical reaction releases energy in the form of heat, the salt acts as a catalyst, the carbon works as a dispersant agent and the vermiculite works to insulate the warmer and prevent the heat from escaping too quickly



### NOTE:

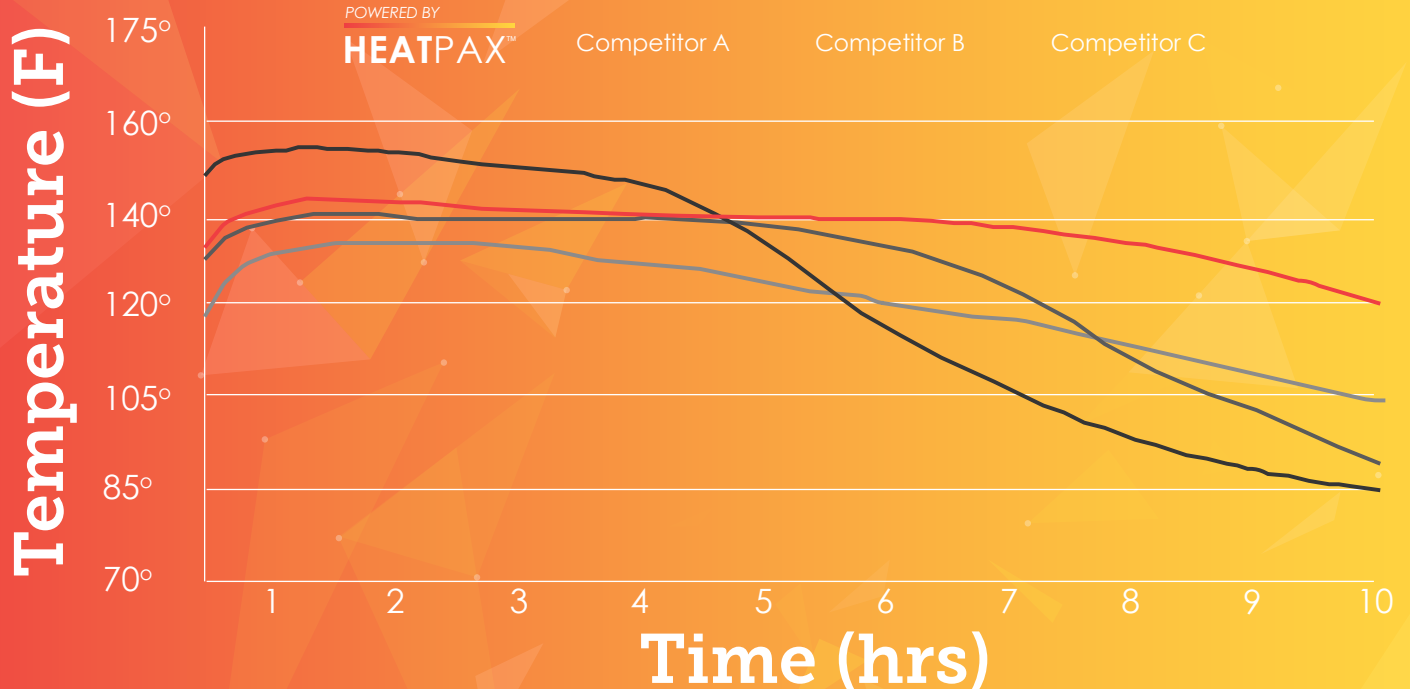
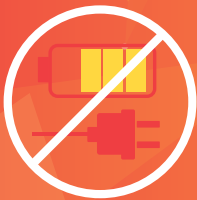
HeatPax™ can be "shut off", or suspended, by sealing the warmer in an air-tight bag. The Heat Pax™ can be re-activated by opening the bag and re-exposing it to the air.





## BENEFITS

- Simple and easy to use, no shaking, electricity or batteries required
- Provides heating up to 24 hours
- Provides controlled comfortable 140°F/60°C warmth
- Natural heat generating exothermic reaction
- Made with natural ingredients stored in soft flexible packs
- Heating can be suspended by resealing in an airtight container
- Non-Toxic
- HeatPax™ combined with TechNiche fleece garments allows for targeted warming



POWERED BY

# HEATPAX™

## 5550

### TechNiche Air Activated HEATPAX™ HAND WARMERS

- Ideal size for our Headwear and gloves
- Generates over 10+ hours of warmth
- Heating can be suspended at any time by resealing the inserts in an airtight container
- Available in 10-packs, 40 pair display cases (5.6 lbs, 2.5 kg), 240 pair Bulk Cases (35.0 lbs, 15.9 kg), and in 12 piece clip strips (5550-CS)
- HeatPax™ Size: 2" X 3.5" (5.1cm X 8.9cm)
- New fabric allows for faster dispersion of heat



## 5551

### TechNiche Air Activated HEATPAX™ HAND WARMERS 40 PAIR DISPLAY CASE

## 5552

### TechNiche Air Activated HEATPAX™ HAND WARMERS 240 PAIR PACK

## 5553

### TechNiche Air Activated HEATPAX™ HAND WARMERS 10 PACK





## 5540 TechNiche Air Activated HEATPAX™ BODY WARMERS



- Simple and easy to use
- Works great in our Heat Pax™ vests, neckwear, blankets, back-wraps, and seat cushions
- Generates over 24+ hours of warmth
- Heating can be suspended at any time by resealing the inserts in an airtight container
- Available in 40 unit Display Cases (6.9 lbs, 3.2 kg), 240 unit Bulk Cases (43.0 lbs, 19.5 kg) and in 12 piece clip strips (5540-CS)
- HeatPax size: 3.5" X 5" (8.9 cm X 12.7 cm)
- New fabric allows for faster dispersion of heat

## 5541 HEATPAX™ BODY WARMERS 40 PIECE DISPLAY CASE

## 5542 HEATPAX™ BODY WARMERS 240 PIECE PACK



## 5570 TechNiche Air Activated HEATPAX™ ADHESIVE TOE WARMERS



- Thin design fits comfortably inside most footwear; adhesive backing ensures warmer stays in place
- Generates up to 6+ hours of warmth
- Heating can be suspended at any time by resealing the inserts in an air tight container
- Available in 40 pair Display Cases (3.5 lbs, 1.6 kg), 240 pair Bulk Cases (23.0 lbs, 10.4 kg) and in 12 piece clip strips (5570-CS)
- HeatPax™ Size: 2.75" X 4" (7.0 cm X 10.2 cm)
- New fabric allows for faster dispersion of heat



## 5571 HEATPAX™ ADHESIVE TOE WARMERS 40 PAIR DISPLAY CASE

## 5572 HEATPAX™ ADHESIVE TOE WARMERS 240 PAIR PACK



POWERED BY

HEATPAX™

# 5529S

## TechNiche Air Activated Heating VEST

Powered by HeatPax™



24+

- High collar, handy zippered front pockets, adjustable elastic cord at bottom and zipper closure; delivers additional coverage and protection where you need it most
- 100% Black softshell vest to help hold in heat, with black poly-cotton elastic trim and a total of 8 built-in HeatPax™ Body Warmer pockets
- Includes 8 HeatPax™ Body Warmers (5540) that deliver steady, comfortable heat to your torso for 24+ hours
- Sizes: XS, S, M, L, XL, 2XL, 3XL
- Color: Black



#5529S TechNiche Air Activated Heating Vests

Size	XS	S	M	L	XL	XXL	XXXL
Chest	34-36"	37-39"	40-42"	43-45"	46-48"	49-51"	52-54"
Length	22"	22.5"	23"	23.5"	24"	24.5"	25"





**24+** **5519** TechNiche Air Activated Heating  
**SCARF**  
Powered by HeatPax™

- Keep your neck protected from the cold
- Soft durable, 100% poly-fleece with black cotton-poly elastic trim for snug fit, and built-in HeatPax™ Body Warmer pockets
- Includes 3 HeatPax™ Body Warmers (5540) that deliver steady, comfortable heat for 24+ hours
- Size: Adult/One
- Colors: Black, Khaki



**5535**

TechNiche Air Activated Heating  
**SPORT GLOVES**  
Powered by HeatPax™



- Waterproof outer with traction grips on palms, index finger, and thumbs; snug fitting cuffs keep the heat where it's needed
- Ideal for outdoor recreational activities Comes with "Dual pocket system"; two options for customized placement of HeatPax™ Hand Warmer
- Breathable interior lining creates maximum comfort
- Includes 1 pair of HeatPax™ Hand Warmers (5550) that deliver 8+ hours of heat
- Sizes: M/L, L/XL
- Color: Black



**#5535 TechNiche Air Activated  
Heating Sport Gloves**

Glove Size	Circumference of hand at knuckles	
	Inches	Centimeters
S/M	7.5-9	19-23
L/XL	9-10.5	23-27

POWERED BY

HEATPAX™

**NEW!**

**5503**

TechNiche Air Activated Heating  
**FLEECE GAITER**

Powered by HeatPax™



- Built in pockets for two HeatPax hand warmers (HeatPax sold separately)
- Additional pocket for optional removable filter, to cover mouth and nose
- Filter pocket measures 4.5" by 5.5" (filter not included)
- Made with 8.3oz polyester fleece
- Will protect the face, nose and mouth while keeping the wearer warm
- Size: Adult
- Color: Black



## WEAR MULTIPLE WAYS



BALACLAVA



SCARF/  
FACE COVER



HEADBAND



BANDANNA



SKULL CAP



**5526**

TechNiche Air Activated Heating

**BALACLAVA**

Powered by HeatPax™

- Keep your head and neck protected from the cold using the multi-configuration balaclava
- Wear it as a neck warmer, face mask, hood or hood with mask depending on the temperature and your needs
- Soft durable, 100% poly-fleece with black cotton-poly elastic trim for snug fit, and built-in HeatPax™ Hand Warmer pockets
- Includes 1 pair of HeatPax™ Hand Warmers (5550)
- Size: Adult
- Color: Black



**5521**

TechNiche Air Activated Heating

**HARD HAT LINER**

Powered by HeatPax™

- Keep your head and neck protected from the cold; attaches directly to hard hats (not included)
- Soft, durable, 100% poly-fleece with black cotton-poly elastic trim for snug fit, hook and loop closure and hard hat attachment, and built-in HeatPax™ Hand Warmer pockets over the ears
- Includes 1 pair of HeatPax™ Hand Warmers (5550) that deliver steady, comfortable heat for 8+ hours
- Size: Adult
- Color: Black



POWERED BY

**HEATPAX™**

**5522S**

TechNiche Air Activated Heating  
**NECK WARMER**  
Powered by HeatPax™



- 100% softshell with black cotton-poly elastic trim and rear hook and loop closure
- Designed for a snug fit and to hold HeatPax™ Hand Warmers
- Includes 1 pair of HeatPax™ Hand Warmers (5550) that deliver steady, comfortable heat for 8+ hours
- Size: Adult
- Color: Black



AIR ACTIVATED  
HEATING TECHNOLOGY

**5511**

TechNiche Air Activated Heating  
**STADIUM BLANKET**  
Powered by HeatPax™



- Keep two people warm at sporting events; excellent winter emergency blanket to keep on hand in your vehicle
- Soft, durable, 100% poly-fleece with 8 built-in HeatPax™ Body Warmer pockets strategically placed for maximum warmth distribution
- Includes 8 HeatPax™ Body Warmers (5540) that deliver 24+ hours of heat
- Size: 4' X 6' (1.2m X 1.8m)
- Colors: Black







## 9529

TechNiche Air Activated Heating

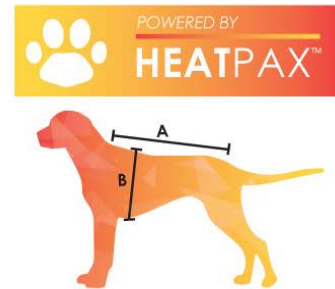
### DOG COATS

Powered by HeatPax™

- 100% polyester barrier fleece creates a water and wind proof garment for your canine
- Ideal for cold winter days, activates quickly, and will last for hours
- Includes HeatPax™ Hand Warmers #5550 (quantities vary with size)
- Size: XS, S, M, L, XL, XXL

Color: Black

#9529 Air Activated Heating DOG COAT						
Vest Size	XS	S	M	L	XL	XXL
Back Length (A)	up to 8"	9-12"	13-16"	17-20"	20-24"	25-30"
Girth (B)	12-20"	18-26"	22-32"	26-36"	28-38"	30-42"
Appximate Dog Weight	10lbs	25lbs	40lbs	70lbs	95lbs	120lbs



## 9511

TechNiche Air Activated Heating

### DOG PADS

Powered by HeatPax™



- 100% polyester softshell fleece creates a water and wind proof pad/mat for your canine
- Ideal for cold winter days, activates quickly, and will last for hours
- Includes HeatPax™ body warmers #5540 (quantities vary with size)
- Sizes: XS, S, M, L, XL, XXL
- Color: Black



#9511 Air Activated Heating DOG PAD						
Pad Size	XS	S	M	L	XL	XXL
Width (of pad)	15"	19"	21"	23"	28"	32"
Length (of pad)	20"	24"	30"	36"	42"	48"



## OCCUNOMIX PRODUCT OFFERINGS

**OCCUNOMIX IS A LEADING DESIGNER AND MANUFACTURER OF PERSONAL SAFETY EQUIPMENT FOR PEOPLE ALL OVER THE WORLD.**



Occunomix products can protect you from workplace accidents and the discomforts and dangers of hot, cold or rainy environments. OccuNomix helps employers meet OSHA regulations for industrial safety. Occunomix products are also enjoyed by millions of people engaged in sports and hobbies and are used for the relief of many types of aches and pains.

TechNiche is offering a select number of Occunomix products that we feel compliment our current product offering. We hope you enjoy the Occunomix products as much as we do!

**LUX-SSETP2B  
CLASSIC STANDARD WICKING BIRDSEYE**

- Meets ANSI/ISEA 107-2015 Class 2 - Type R
- 3.8 oz Wicking Birdseye
- 2" Reflective Tape
- Left Chest Pocket
- Up to UPF 30 Protection
- Perfect for use with Evaporative Cooling Vests





### LUX-LSETP3B LONG SLEEVE WICKING BIRDSEYE SHIRT

- Meets ANSI/ISEA 107-2015 Class 3 - Type R
- 3.8 oz Wicking Birdseye
- Left Chest Pocket
- 2" Reflective Tape
- Up to UPF 30 Protection
- Perfect for use with Evaporative Cooling Vests

#### Shirt Size Chart

SIZE	REG (34-42")			XL	2XL	3XL	4XL	5XL	6XL	7XL	8XL	9XL	10XL
	S	M	L										
CHEST SIZE	32-34"	36-38"	40-42"	44-46"	48-50"	52-54"	56-58"	60-62"	64-66"	68-70"	72-74"	76-78"	80-82"

### LUX-350-JB VALUE BLACK BOTTOM 2-IN-1 BOMBER JACKET

- Meets ANSI/ISEA 107-2015 Class 3 - Type R
- 300 Denier Polyester Oxford with PU Coating
- Waterproof with sealed seams
- 2" Reflective Tape
- 1 Mic Tab
- Zip-out Quilted Liner
- Zipper Closure w/Inside Storm Flap
- Roll-away Hood



#### JACKETS

SIZE	S	M	L	XL	2X	3X	4X	5X
CHEST SIZE	34-36"	38-40"	42-44"	46-48"	50-52"	54-56"	58-60"	62-64"



### TD800 WICKING & COOLING GAITER

- Moisture wicking and evaporative cooling neck and head protection
- 30% cooler than your skin temperature when wet
- Offers UV protection of 50+
- Protection from dust & debris in the air, as well as the heat & sun
- Multifunctional use around the neck and head
- Anti-microbial – treatment to prevent growth of odor causing bacteria
- Soak in cold water for 1 minute, then snap to activate
- Size: One
- Colors: Hi-Viz Yellow, Navy, Camo

### LUX-CFM MASK

- Durable, breathable canvas exterior Strong adjustable strap and stopper
- Soft cotton lining
- Reusable and washable
- Canvas has better filtration than most other cotton or polyester fabrics
- One size fits most
- Colors: Black, Navy



### 899 STOW-AWAY HARD HAT SHADE

- Cotton Twill (Hi-Viz Poly Oxford)
- Folds away into 6" Circular Pouch
- Wire Spring Rim
- Patented Self Storage Pouch
- Fits Most Hard Hats including Full Brim
- One Size
- Colors: Hi-Viz yellow, White, Khaki, Navy







## LUX-MBRB MULTI-BANDED REFLECTIVE BEANIE

- Acrylic Rib Knit
- Brushed Anti-Pilling Fleece
- Bands of Reflective thread
- 360° Ear & Forehead Coverage
- One Size
- Colors: Hi-Viz Yellow, Orange, Gray, Black

## SS260 HINGED BALACLAVA

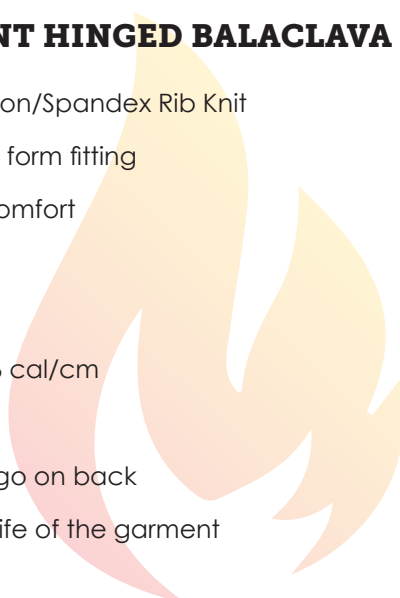
- Performance fleece for the active worker
- UPF 50+ rating Polyester and Spandex fabric (HVY)
- Hinged Design
- Wear 3 Ways!
- One Size
- Colors: Hi-Viz Yellow, Black



# FIRE RESISTANT

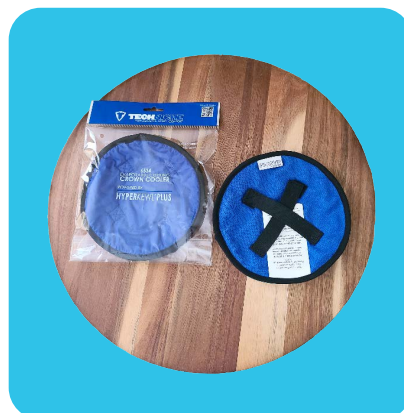
## SFR320 FLAME RESISTANT HINGED BALACLAVA

- 9.5 oz Modacrylic/Cotton/Spandex Rib Knit
- Ergonomically shaped, form fitting
- Flat lock seaming for comfort
- Reflective accents
- Meets ASTM F1506
- Arc Rating: ATPV = 11.6 cal/cm
- NFPA 70E / CAT = 2
- OccuNomix FR Skull Logo on back
- Flame resistant for the life of the garment



# MERCHANDISING SUPPORT

TechNiche LLC offers two main POS displays and a variety of new packaging to assist in the merchandising of our products in retail locations. We customize each display for the particular market, (eg. Industrial Safety, Powersports, Pets and Equine, etc) thereby allowing our customers to have a unique product stand tailored to their needs. Our new packaging initiatives will also help retailers to better display our products and drive sales.



# VALUE ADDED SERVICES

Manufacturing today is not simply about producing a product and shipping it. The demands placed on Distributors, Wholesalers, Dealers, Resellers and others by the market require a broader range of services from their manufacturers, if they are to succeed. We have heard what our reselling partners have said, we have seen what they need, and we have developed a range of services to help make you more competitive.

## **DROP SHIPMENTS**

No storage or stock needed when you take advantage of our drop shipment program. We offer both domestic and international drop shipment programs.

## **ADVERTISING CO-OP PROGRAMS**

We will work with you to develop customized marketing programs suited to your unique markets. We have experience in both digital and print media.

## **DEALER / DISTRIBUTOR SUPPORT PROGRAMS**

We are working to make you successful and will customize support programs to help you achieve success.

## **PRODUCT KNOWLEDGE TRAINING PROGRAMS**

We will train your staff on our products to help improve your sales opportunities

# CUSTOMIZATION OFFERINGS

There are 3 ways to get our temperature control technology into your brand's clothing.

## RAW FABRIC

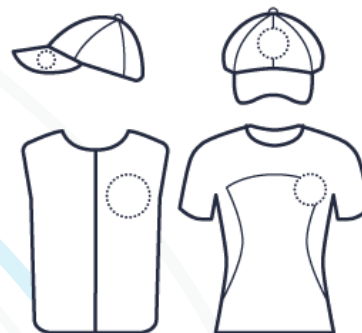
In addition to the finished goods outlined in this product catalog, we also sell HyperKewl™ PLUS fabric so that other companies can take advantage of our Evaporative Cooling technology. HyperKewl™ Plus Evaporative Cooling fabric is available in its "raw" form in rolls of 100m.

*We will be happy to provide guidance to customers on how best to utilize our HyperKewl™ PLUS Fabric in their products.*



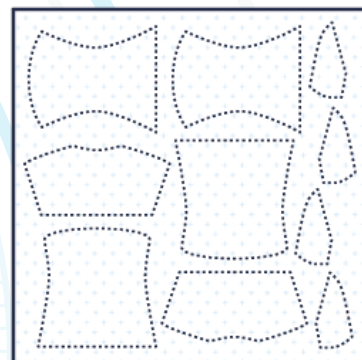
## OEM APPAREL

We apply your branding to our existing range of OEM temperature control garments.



## PRIVATE LABEL

We make tailored private label apparel for global brands, using our temperature control technologies.





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