



ZIPPKOOL[®]
COOLING GEAR
PRODUCT CATALOG 2022

ZIPPKOOL INC. is a U.S. Subsidiary of SFT Laboratory Co. Ltd., patent holder and manufacturer of ZIPPKOOL[®] Cooling Gear



ZIPPKOOL® COOLING GEAR

Designed for Construction,
Road Work, Warehouse Labor,
Manufacturing, Landscaping,
DIY and more

Protection / Prevention / Productivity

**OSHA-Compliant Personal Protective Equipment
for Hot/Humid Work Environments
with DIRECT COOLING Technology**

OVER 4 MILLION workers are currently using ZIPPKOOL® Cooling Gear to PREVENT HEAT-RELATED ILLNESSES because preventing accidents lead to BETTER PRODUCTIVITY.

Cooler workers lead to attentive workers.
ATTENTIVE WORKERS LEAD TO LESS ACCIDENTS AND MISTAKES ON THE JOB.
Equip your workers with ZIPPKOOL® to

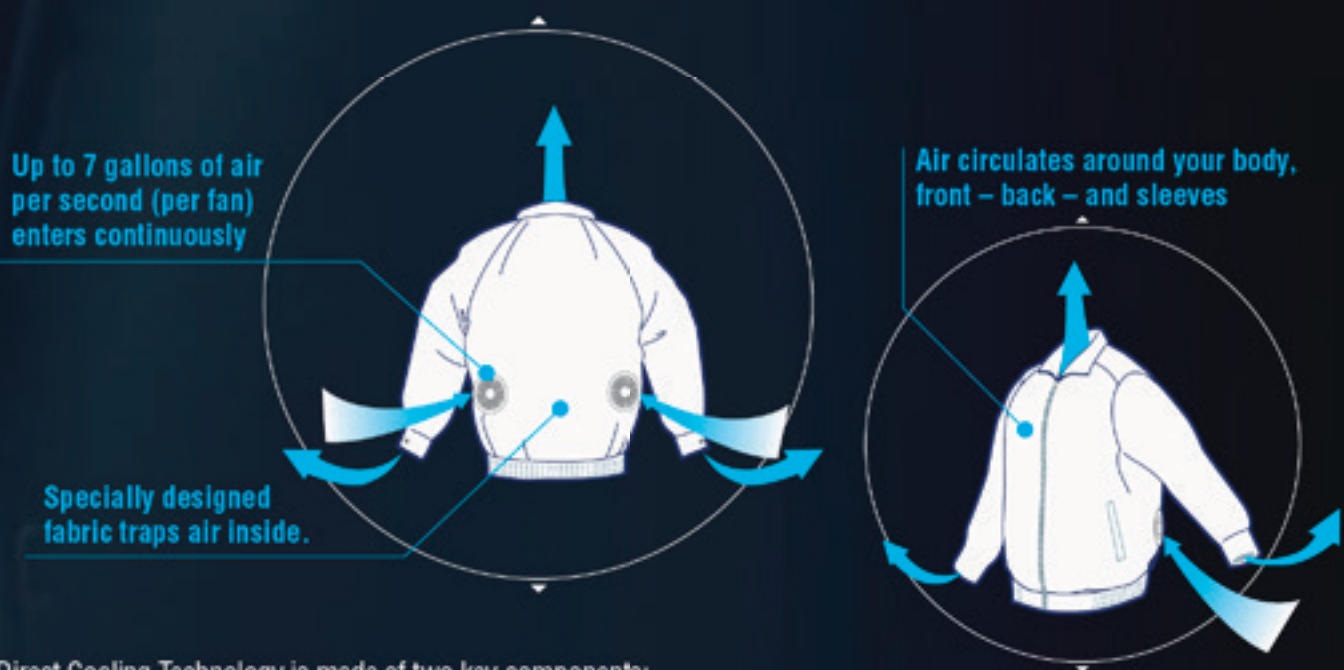
Get work done – faster and safer.



DIRECT COOLING TECHNOLOGY

Our body is equipped with a cooling mechanism to sustain a healthy body temperature when in heated environments. This mechanism is known as *thermoregulation*, or in simple term: sweating. However, sweating alone cannot cool your body down. Only when sweat is vaporized, then can the body begin to cool down. This is extremely difficult in humid environments and/or space without abundant air movement.

ZIPPKOOL®'s patented Direct Cooling Technology maximizes the body's cooling effect by constantly pumping fresh air through the created air tunnel around your body, speeding up sweat vaporization. Such quick convection cooling allows the body core temperature to not exceed dangerous levels while limiting dehydration.



Direct Cooling Technology is made of two key components:

- **A specially woven non-air-permeable fabric that create maximum airflow around your body**
- **A pair of super-lightweight fan powered by a rechargeable Lithium-ion battery that will transfer up to 12.8 gallons of air per second the entire workday.**

The combination of these two components in the ZIPPKOOL® Cooling Gear allows workers in heated environments to truly stay cooler and more comfortable for a longer period of time compared to other "Cooling Gear" on the market.

If you've worked in the heat, you know the cooling sensation when a nice breeze hit's your body. Now carry that breeze with you all day and anywhere on your jobsite.

ZIPPKOOL® is a U.S. registered trademark of SFT Laboratory Co., Ltd. (Registration No. 5,046,354 and No. 5,440,697)

ZIPPKOOL (Cooling Jacket, Helmet Cooler attachment, and its fans and batteries) is a U.S. Patented Product. No. 7,272,946 ; No. 10,205,199 ; and No. 10,806,205
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THE DATA

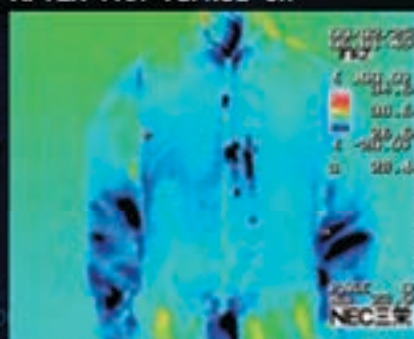
Study by NASA showed that a worker's productivity and accuracy are greatly affected by the temperature in which he/she works in. The chart below documents the amount of productivity loss due to heat-fatigue.

Effective Temperature	75°F	80°F	85°F	90°F	95°F	100°F	105°F
Loss of Work Output	3%	8%	18%	29%	45%	62%	79%
Loss in Accuracy	-	5%	40%	300%	700%	-	-

BEFORE FAN Turned On



AFTER FAN Turned On



Test Environment: Controlled temperature: 86F
Controlled humidity: 50%
Adjusted heat index: 88F

While minimal loss in work output and accuracy is recorded at an effective temperature of 80F, the number significantly increases (45% and 700%, respectively) at 95F.

A reduction of 10F could significantly impact the worker's production and accuracy on the job.

WEARING ZIPPKOOL REDUCES HEAT-FATIGUE WHILE INCREASING ACCURACY AND PRODUCTION

Our study indicates that ZIPPKOOL® Cooling Jacket is able to decrease temperature inside the jacket by 9F and decrease humidity by 49%.

As a result, what may seem as "spoiling workers", will lead your workers to be focused during their jobs, more accurate, and more productive.

That is why we are confident that ZIPPKOOL® Cooling Gear will

GET THE JOB DONE, FASTER AND SAFER.



ZIPPKOOL®'S RECHARGEABLE LITHIUM-ION BATTERY

Tested and Proven for Maximum Safety

ZIPPKOOL® is proud to use the safest and most reliable rechargeable lithium-ion battery available. All of our battery units are made at our manufacturing plants, using Panasonic cells that every major electronics manufacturer knows and trusts.

We have sold over 5 million of these battery units and have defect/incident rate of 0.015%.

Key Features:

- Tested at 300 plus days of natural discharge (from 100%)
- 700 Total charges before capacity drop below 90%
- 75% capacity retention at 1000 charges

On average, our batteries will last 3 to 5 years, depending on your charging frequency.

Battery Life for ZIPPKOOL® Cooling Vests/Jackets

All of our cooling jackets/vests are powered by the LI-PRO1U standard rechargeable lithium-ion battery.

There are FOUR adjustable power levels (1 - TURBO ; 2 - HIGH ; 3 - STANDARD ; 4 - LOW).

Our recommended setting is either at STANDARD or HIGH POWER when working under 100F with 40 to 60% humidity.

Charging time is 5.5 Hours and expected battery life when properly handled is 5 years.

RECHARGEABLE LITHIUM ION BATTERY

POWER LEVEL	VOLTAGE	AIR/SEC	BATTERY LIFE
(1) TURBO	7.2V	12.8 gallons	5.5 HRS
(2) HIGH	6V	11.1 gallons	8.0 HRS
(3) STANDARD	5V	9.7 gallons	12.0 HRS
(4) LOW	3V	6.8 gallons	24.0 HRS

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may caused undesired operation.

HVN-400 Series

ANSI Class 2 Sleeveless Cooling Vest

High Visibility Safety Vest that keeps workers cool and comfortable. Sleeveless model allows more maneuverability.

Meets OSHA and ANSI Class 2 standards.



SCAN ME



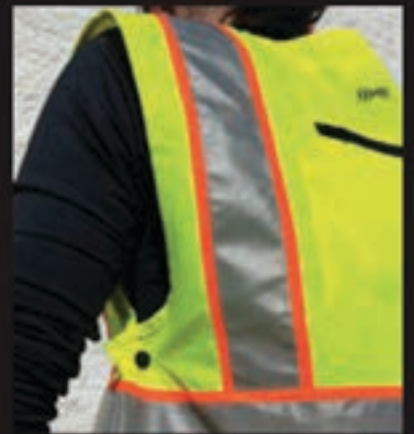
Available in S/M, L/XL, 2XL / 3XL,
4XL / 5XL, 6XL / 7XL

HVN-400U NEW!

Harness Compatibility, Water-resistant fabric, Upgraded air-trapping system with air-release, and HVC mini battery pocket. Available in High Visibility Yellow.

MATERIAL	100% POLYESTER
TYPE	SLEEVELESS VEST
SPECS	ANSI CLASS II / WATER RESISTANT / MACHINE-WASHABLE
SUITED FOR	GENERAL CONSTRUCTION, WAREHOUSE AND MANUFACTURING





No shoulder restraint, adjustable pit for more/less air release



Two-way Radio loop (great for keeping cables out of your way)



MINI battery pocket for your HVC Hard hat cooler



Easy-pull adjustable waist band to seal air

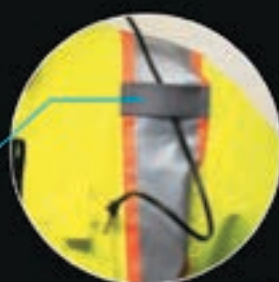
HVN-500 Series

ANSI Class 3 Short Sleeve Cooling Vest

High Visibility Safety Vest that keeps workers cool and comfortable. Meets OSHA requirements. Lightweight, durable and lasts all day on a rechargeable battery.



Bigger Chest Pocket to fit bigger phones



Two-way radio Loop
(Great for keeping cables out of your way)



MINI Battery pocket for your Hard Hat Cooler



3M™ Scotchlite™
Reflective Material used



Pull Strap for your waist band



HVN-510U

Harness Compatibility, Water-resistant fabric. Upgraded air-trapping system and HVC Mini Battery Pocket. Available in High Visibility Yellow

MATERIAL	100% POLYESTER
TYPE	SHORT SLEEVE
SPECS	ANSI CLASS III / WATER RESISTANT / MACHINE-WASHABLE
SUITED FOR	Highway / Bridge Construction, Pavement, Commercial Construction

Available in S/M, L/XL,
2XL / 3XL, 4XL / 5XL, 6XL / 7XL



SCAN ME



Available in S / M, L / XL,
2XL / 3XL, 4XL / 5X



HVN-500U

High Visibility Cooling Vest (ANSI/ISEA Class 3 Compliant)
with Harness Compatibility. Water-resistant, ripstop fabric.
Available in High Visibility Yellow and Orange

MATERIAL	100% POLYESTER
TYPE	SHORT SLEEVE
SPECS	ANSI CLASS III / WATER RESISTANT / MACHINE-WASHABLE
SUITED FOR	Highway / Bridge Construction, Pavement, Commercial Construction



SCAN ME



ZIPPKOOL® HVC Hard Hat Cooler Series

PROTECTING YOUR
KEEP IT KOOL WHILE

**HVC-03U (AA Battery) / HVC-03L (MINI Rechargeable) /
HVC-03BL (BIG Rechargeable)**

OSHA Compliant. High Visibility Neck Shade
with Fan that sends air directly into your head.
Attaches to any standard FULL BRIM Hard hats.
Also with UV protection around your neck and ears.

MATERIAL 100% POLYESTER
TYPE HELMET ATTACHMENT (Helmet not included)
EFFECTS Prevents heat-buildup by 20F
SLITED FOR Highway/Bridge Construction, Commercial/Residential Construction



Transform your hard hat into an air-cooled hard hat. Simply clip it on, and it will send constant air into your head area to keep it cool. Reduce the risk of heat-related illness, by keeping your head cool.



HVC-03L with MINI Lithium-ion Battery

- 5 ounces
- Half the size of the BIG battery
- Same output
- 12 hours in a single charge
- 3 Hour charging time (Big Battery: 5.5 Hours)

ZIPPKOOL HVC Hard Hat Cooler Battery Comparison Chart

Power Level	HVC-03U 4 standard AA's		HVC-03L MINI rechargeable L-ion battery		HVC-03BL BIG rechargeable L-ion battery	
	LOW	1.0 Gal/Sec	20 Hours	1.5 Gal/Sec	20 Hours	1.5 Gal/Sec
STANDARD	N/A	N/A	2.7 Gal/Sec	12 Hours	2.7 Gal/Sec	24 Hours
HIGH	2.0 Gal/Sec	8 Hours	3.1 Gal/Sec	8 Hours	3.1 Gal/Sec	16 Hours
TURBO	N/A	N/A	3.9 Gal/Sec	6 Hours	3.9 Gal/Sec	12 Hours
MIX	N/A	N/A	3.4 Gal/Sec	7 Hours	N/A	N/A

*Recommended Settings

IF HIGH-VIZ ISN'T YOUR STYLE



BM-500U/BMK-500U

100% Cotton Cooling Jacket for maximum cooling. Durable, washable fabric.

MATERIAL	100% COTTON
TYPE	BM-500U (LONG SLEEVE) / BMK-500U (SHORT SLEEVE)
EFFECTS	COMFORT + DURABILITY
SUITED FOR	Residential Construction, Forestry, Warehouse, Manufacturing

BP-500N

100% Polyester Long Sleeve Cooling Jacket for maximum cooling. Lightweight, washable fabric.

MATERIAL	100% POLYESTER
TYPE	LONG SLEEVE
EFFECTS	UV PROTECTION + MOBILITY
SUITED FOR	Agricultural, Landscaping, Recreational Activities



KCB-1000U

Specially designed seat cushion with built-in fan to cool your back and thighs. USB or 12/24V Cigarette Plug Compatible

TYPE	Seat Cooler Attachment for Vehicles
SUITED FOR	Passenger and Pick up Vehicles



NEED SPARE PARTS?



Backup L-ion Battery, Fans (Set of 2) Replacement Vests/Jackets, Hard Hat Cooler Replacement Kits Available for purchase

FOR YOUR INFORMATION

That damaged or dirty jacket is not the end of ZIPPKOOL Cooling Gear's life. Jacket can be washed or replaced. All electronic parts come off and be replaced.

PART NUMBER	PART NAME/DESCRIPTION	EXPECTED LIFE*	WARRANTY**
LI-PRO1U	Lithium-ion Battery for all Cooling Gear	4 YEARS	ONE YEAR
FAN2100U	Fans (Set of Two) for Cooling Jackets	3000 HOURS	ONE YEAR
RD9261U	Cables for Jackets (Size S to XL)	N/A	LIFETIME
RD9261L	Cables for Jackets (Size 2XL to 5XL)	N/A	LIFETIME

* Life expectancy based on proper usage as instructed on Operations Manual
 **See Warranty Guidelines for details

Roofing Company (Orlando, Florida)

"Workers immediately felt the benefit as they felt more energized after the end of the day.

Crew with Zippkool® were able to lay out 22% more metal sheets compared to those not wearing them."

General Construction (Atlanta, Georgia)

"We gave them out as bonus, and the word spread like wild-fire. Workers were thrilled and production went up."

General Construction (Denver, Colorado)

"Skeptical at first, but two years into it, and the thing is still working great. Worth every penny"

Automobile Manufacturing (Georgetown, Kentucky)

"We have maintenance crews that have to work while all the A/C is shut down, and this has proved to be a great way to keep them productive and safe in hot/humid environment."

General Construction

(Dallas, Texas)

"The hard hat cooler makes a tremendous difference in keeping me cool at work.

And the battery works well and lasts longer than it claims to."

Utility Company

(Inwood, West Virginia)

"I'm a union electrician and I usually sweat through 2 shirts in the summer. Since getting this, my shirt has stayed dry. Definitely worth the money."

**Whatever work you do,
Staying COOL and SAFE pays off.**

ZIPPKOOL
COOLING GEAR

REVOLUTIONIZING
HEAT-STRESS
SAFETY

KEEP IT KOOL WHILE AT IT.



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