

# ZIPPKOOL® Air Cooling Jackets

51 Patents - Original Japanese Invention



**BEAT THE HEAT  
BOOST PERFORMANCE  
PROTECT YOUR WORKFORCE**

# Cools your body using a result of the heat of evaporation



The strap can easily be attached to the collar with buttons.



By buttoning the strap, an air path is created.



By fastening the strap attached to the inside of the collar, an air path is created between the collar and clothing to produce a cooler, more comfortable environment.

**01**  
Fresh air is blown into the clothing by 2 fans.



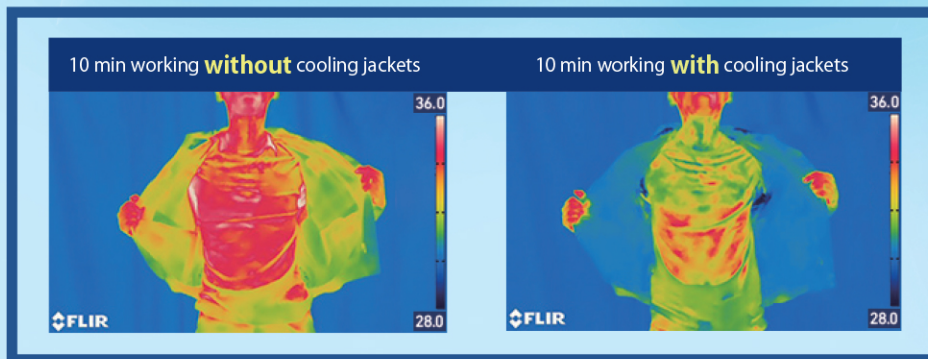
**02**  
The air dries the sweat as it flows and heads towards the exit.

**Remarks 01;**  
Original specifications: **neck-back strap** (to boost air ventilation)

**03-1**  
Ventilate sweat-soaked air.

**03-2**  
Ventilate sweat-soaked air.

**Remarks 02;**  
Keep the hems of your clothes tight .



When the body temperature rises, the brain detects it and creates perspiration as needed.

The mechanism that reduces the body temperature using the heat of evaporation caused by the evaporation of sweat is called the "physiological cooler."

This mechanism can be made fully effective when equipped with a system that evaporates perspiration.

With ZIPPKOOL (Air cooling jackets), the twin fans bring (ex.) 49 liters of air into the clothes every second.

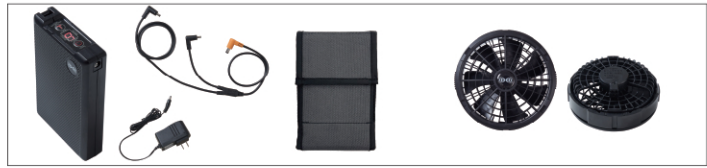
The air taken into the clothes flows in parallel between the clothes and the body, through which process perspiration is instantly evaporated.

The body cools as a result of the heat of evaporation, and the warm and damp air that flows through the clothes is eliminated via the collar and sleeve cuffs.

# Original devices for ZIPPKOOL CE

## 18V x 106L/s model : SK23011 (all-in- one Starter kit)

18V mode : 18V->16V->12V	: max 106L/s x 5.1hs
15V mode : 15V->10V	: max 90L/s x 5.4hs
10V mode :	: 62L/s : 8.4hs
10V(F) mode :	: 50~62L/s x 11.2hs
6 V mode :	: 39L/s x 24hs & more



CE

FAN color : black, grey and red

## 14.4V x 76L/s model : SK23021 (all-in- one Starter kit)

14V mode : 14.4V->10.5V	: max 76L/s x 4.9hs
11V mode :	: 62L/s x 4.4hs
11V(F) mode :	: 48.8~62L/s x 6.8hs
8.2V mode :	: 48.8L/s x 8.5hs
6V mode :	: 36L/s x 17hs



CE

FAN color : black, grey, charcoal gray and red

## 7.2V x 48.8L/s model : SKSP02 (all-in- one Starter kit)

7.2V mode :	: 48.8L/s x 8hs
6V mode :	: 42.2L/s x 12hs
5V mode :	: 36.8L/s x 18hs
3.3V mode :	: 25.8L/s x 24hs & more



CE

FAN color : black and grey

★ Those are manufactured in-house, safe, high-performance, and extremely low-fault devices.

# Original jackets for ZIPPKOOL -1-

## KU90550 ★ best-selling model

long sleeve : **cotton 100%**



silver grey

color; silver grey, dark blue, light blue and moss green

size; S, M, L, LL, 3L, 4L, 5L, 6L and 7L (Japanese size)

## KU90540 ★ best-selling model

long sleeve : **polyester 100%**



silver grey

color; silver grey, navy, dark blue, charcoal and moss green

size; S, M, L, LL, 3L, 4L, 5L, 6L and 7L (Japanese size)

# Original jackets for ZIPPKOOL -2-

## KU92130 ★ for full harness users

long sleeve : **PEs 75% / cotton 25%**



light blue

original super spacer attached to secure the wind flow path, when you attached the full harness on top

color; silver grey, navy and light blue

size; S, M, L, LL, 3L, 4L and 5L  
(Japanese size)

## KU954F ★ for full harness users

long sleeve : **polyester 100%**



dark blue

lanyard parking straps

color; silver grey and dark blue  
size; S, M, L, LL, 3L, 4L and 5L  
(Japanese size)



## KU91830 ★ popular in all categories

vest : **polyester 100%**



silver grey

color; silver grey, navy and black

size; S, M, L, LL, 3L, 4L, 5L and 6L  
(Japanese size)

## KU92320 ★ popular in all kinds of drivers

vest : **PEs 75% / cotton 25%**



silver grey

color; silver grey, navy and black

size; S, M, L, LL, 3L, 4L and 5L  
(Japanese size)



Fans placed under both sides  
Does not interfere with the backrest

## High Visibility products

long sleeve : **polyester 100%**

color; fluorescent orange and fluorescent yellow

sample images



**KU92220** ★ popular in warehouse works

short sleeve : **polyester 100%**



blue

color; blue, dark green, navy and silver grey  
size; S, M, L, LL, 3L, 4L and 5L (Japanese size)

**KU90540** ★ Heat shielding model (titanium coating)

long sleeve : **polyester 100%**



silver grey

color; silver grey and dark blue  
size; S, M, L, LL, 3L, 4L and 5L (Japanese size)

**SPVEST** ★ to secure the wind flow path



black mesh ; **polyester 100%**  
super spacer; **polyethylene**

size ;  
length 32.5cm  
shoulder width 38cm  
chest circumference 80~125cm



**Options**

**FNP500 / OP25510**

Fan protection net

★ prevents branches and other debris from getting in



**FNT500S**  
Metal filter

★ prevents sparks and other contaminants from getting in

**FL11012 / FSBSET2**

Fan protection filter

★ prevents dust and other debris from getting in



**FANSP02**  
FAN spacer

★ Fan spacer when wearing rain gear or other items.  
To prevent rain gear or other items from getting stuck to the fan.

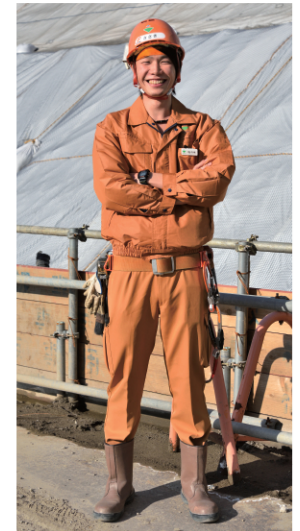


# implementation examples / case studies

## OBAYASHI CORPORATION

Japanese general construction company (super general contractor).

ZIPPKOOL (air cooling jacket) prevents heatstroke.  
By implementing ZIPPKOOL, unnecessary sweating has been reduced and physical exhaustion has been reduced.  
It improves attention and concentration, prevents a decline in judgment, and increases work efficiency.



## TOENEC CORPORATION

A comprehensive equipment company of the 'Chubu Electric Power' Group.  
Mainly engaged in electrical equipment construction, power-related construction, and telecommunications construction.

We have experienced the effectiveness of ZIPPKOOL in preventing heatstroke, and we wear it regularly.  
However, for work purposes, the regular model was somewhat difficult to use. It is necessary to develop an original model in response to the mandatory full harness requirement.  
We are very satisfied with the new original model.



## FUJITEC CO., LTD.

A major manufacturer specializing in elevators and escalators.  
4th in elevator market share in Japan, 5th in escalators.

Our work environment is extremely hot, inside escalators and above the elevator ceilings.  
After comparing other brands, we decided on ZIPPKOOL and have been using it since 2016.  
We used to sweat a lot, but now we sweat less, and can work more comfortably. It's also easier to move around in small work spaces.



## TEPCO LOGISTICS CO., LTD.

A logistics company of the 'Tokyo Electric Power Company' Group. It mainly transports and stores power distribution materials such as utility poles and transmission lines.

It used to be difficult to regulate the temperature with the air conditioning system of the warehouses, but now we can adjust our own temperature by ourselves with wearing ZIPPKOOL. It is really great help & support. Since we started using ZIPPKOOL, our physical fatigue has decreased, our work efficiency has improved, and our motivation has increased.



## Seiko Epson Corporation

Seiko Epson Corporation's "Epson Group domestic affiliates". One of the largest manufacturing bases in Japan. Mainly, manufacturing of semiconductors and printer parts.

The 'clean room' is kept at a constant temperature and humidity. However, what is not widely known is that depending on the work location and type of work, the perceived temperature may become so high that you sweat profusely. So we decided to use ZIPPKOOL to improve the working environment. As a result, not only was it cooler, but we also sweated less, which increased our work efficiency.



## JR EAST LOGISTICS CO., LTD

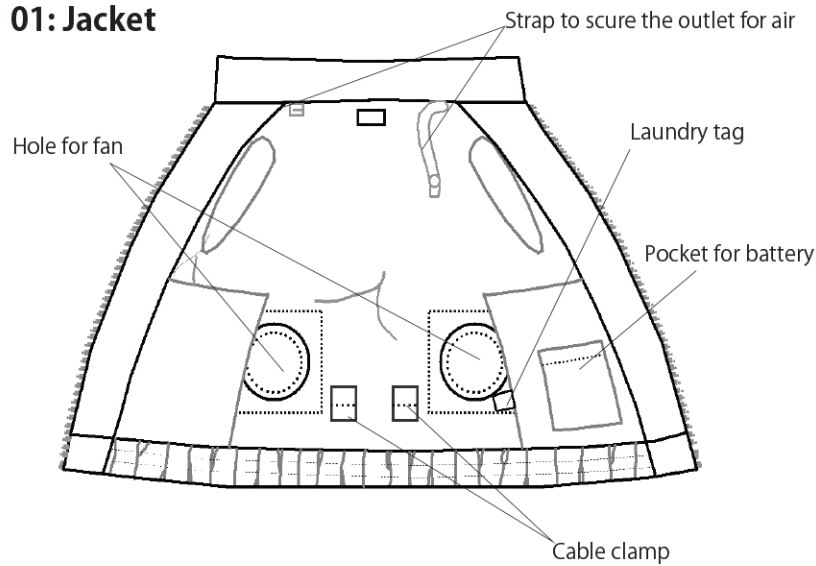
A logistics subsidiary of 'East Japan Railway Company' (JR East). JR East Logistics handles everything from product sorting and delivery in train stations and station buildings to transporting railway infrastructure materials and logistics consulting.

As a result of introducing ZIPPKOOL, sweating has been reduced, and employees no longer feel embarrassed in front of customers. Even during the historic heatwave of 2023, there were zero reports of heatstroke. Work related to railways is slightly stressful and time-pressured, but since wearing ZIPPKOOL, we have been able to work more comfortably and maintain our concentration more easily.

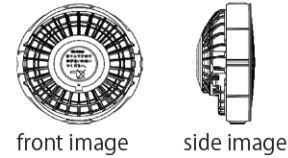


# Component items

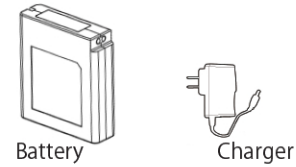
## 01: Jacket



## 02: Fan (2 pcs)



## 03: Battery & Charger



## 04: Cable



# How to set up ?

## 01: Attach 2 fans to jacket

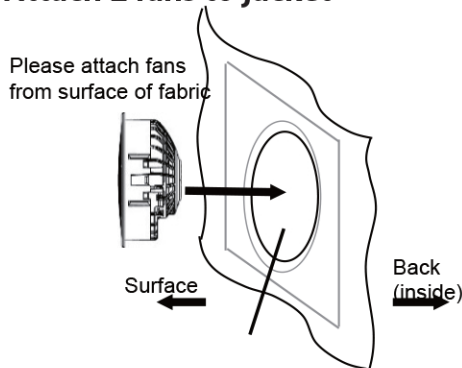
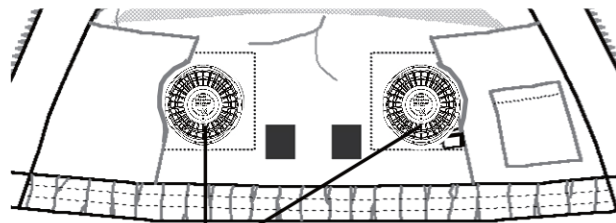
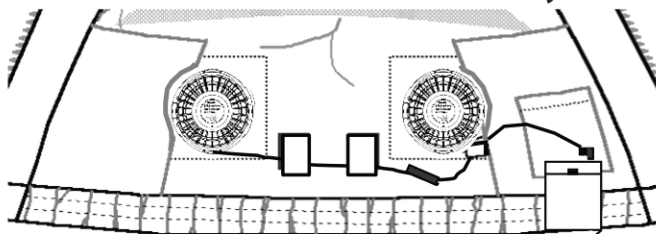


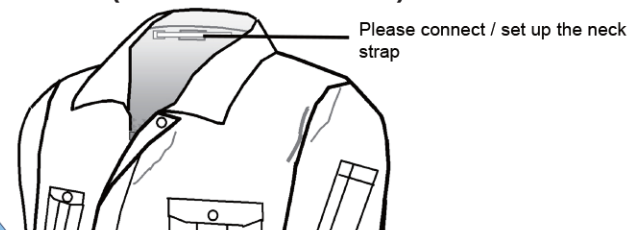
Image from inside of jacket



## 02: Connect cable to 2 fans and battery



## 03: Set up the neck strap (secure outlet of air)



## 04: Wear the jacket, and Power on the battery



**MEET**  
MIDDLE EAST ENGINEERING TECHNOLOGIES

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