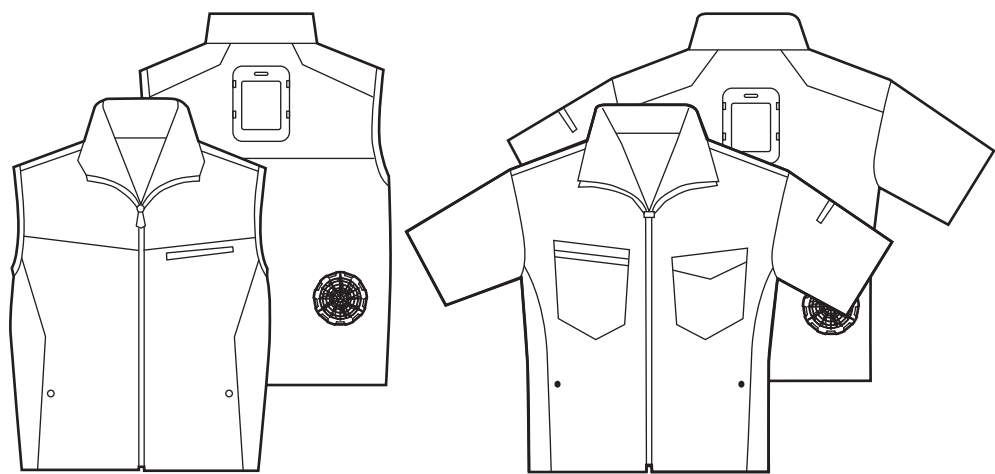


THANKO

Cool Vest 5

Operating instructions

version1.00 y



Safety Precautions	2 ~ 4	Power Connection (Battery)	10
Part Names (Vest)	5	How to Wear	11
Part Names (Short Sleeves)	6	How to Wash	12
Controller	7	How to do Replacements	13
Operation Instructions	8	Specifications	14 ~ 15
Power Connection (Cable)	9		

Thank you for purchasing this product.
To ensure safe and correct use of this product, please read and fully understand this instruction manual before use.
Please be sure to read the "Safety Precautions" before use.

※Important: After reading, please do not throw away but keep it in a safe place.

Warranty period: 12 months from the date of purchase

SAFETY PRECAUTIONS

Please be sure to follow
these rules

This explains the precautions that must be observed to prevent injury to the user or others, and damage to property.

Please read this instruction manual carefully and fully understand it before use.

• Explanation of the display



CAUTION

Indicates that improper handling may result in death or serious injury.



NOTE

Indicates that improper handling may result in injury or property damage.

• The precautions you need to take are explained in the following categories:



Indicates prohibition (things that must not be done).



Indicates a requirement (something that must be done).

- Be sure to observe the "Safety Precautions" to prevent accidents such as fire, electric shock, and injury.
- Before use, please read all of these "Safety Precautions" carefully and use the product correctly.
- After reading, be sure to keep it in a place where the user can see it at any time.
- If you lend the product to someone else, please give the instruction manual to them as well.



CAUTION

• Handling of this product



No wet
hands allowed

Do not touch with wet hands

May cause short circuit and electric shock.

Do not let children use the product alone, and do not use or store it within reach of small children or pets.

Causes of accidents and injuries.

Do not disassemble, repair, or modify the product.

May cause fire or electric shock.

Do not insert your fingers or metal objects such as pins or wires into holes, gaps or openings.

May cause fire, electric shock, or injury.

Do not use or store in the following places:

- Places exposed to direct sunlight
- Bathrooms and other humid places
- Near water
- Places with a lot of vibration
- Near heat-generating equipment or open flames
- Places with flammable gases
- High-temperature locations

This may cause fire, electric shock, or malfunction.



Do not use if you are:

- People currently receiving medical treatment
- People with cardiovascular disease (high blood pressure, low blood pressure, etc.)
- Infants, children, and the elderly who cannot sense cold; people who cannot express their feelings or operate the device
- People with sensitive skin, allergies, or skin wounds or eczema
- People with or who have had a back or spinal disorder
- People who are intoxicated or have reduced physical sensations; people using implanted medical electrical devices such as pacemakers.



Immediately stop using the product in the event of an abnormality or malfunction.

In the case of unusual noises, burning smell or if the device becomes abnormally hot.

After use, turn off the power and remove the mobile battery.

Causes fire and malfunction.

SAFETY PRECAUTIONS

Please be sure to follow
these rules

NOTE



Do not subject to strong shocks or vibrations

Causes of accidents and injuries.

Do not use in places that block the airflow or in places with a lot of dust or metal powder.

May cause malfunction, smoke, or fire.

Do not insert your fingers or foreign objects into the fan card.

Cause of injury.

Do not let the fan blow directly onto your skin.

Causes of health problems.

Do not use insecticides such as sprays

Causes deterioration and damage.

Do not use in places where oil or chemicals are used.

Causes deterioration and damage.

Do not cover or place a cloth over the device.

Causes ignition and fire.

Keep hair away from the air intake

Hair can get caught and cause injury. If you have long hair, be sure to tie it up and use it carefully to prevent hair from getting caught in the fan. Also, if your hair gets caught in the fan, please refrain from continuing to use it.

Do not block the air intake or exhaust vents

Causes malfunction, fire, and ignition.

Do not use broken or damaged products

Cause of injury.

Do not use the cooling plate in a situation where the temperature drops below zero.

This can cause frostbite and chilblains. Be careful not to cool it too much. We recommend using it when the outside temperature is 20°C or higher.

※If it gets too cold, try placing a towel between the cooling plate.



Do not use at bedtime

Cause of breakdown or injury.

When cleaning, do not use solvents such as benzene, thinner, alcohol, kerosene, or chemicals, bleach, or polishing powder.

This may cause discoloration or damage.

Do not use to cool mucous membranes such as the tongue or food.

Causes frostbite and chilblains.

Do not use for other than human

Do not use to cool animals or objects.

Do not allow children under 12 years of age to use

Cause of injury.

Do not connect the device to a power source unless in use

Cause of failure.



Be careful not to get accessories caught in the device.

Cause of injury or malfunction.

After use, remove the device from your skin and turn it off

Due to the characteristics of the Peltier element, the cooling plate will become warm after it is stopped.

Be sure to check your skin condition every 30 minutes before use.

※If you experience any abnormalities such as redness or itching, discontinue use immediately.

If you experience any abnormalities in your body while using this product, discontinue use immediately.

※If you experience any abnormalities such as redness or itching, discontinue use immediately.

After use, wipe off any sweat on the cooling plate with a dry cloth.

Causes rust and corrosion.

SAFETY PRECAUTIONS

Please be sure to follow
these rules

NOTE

• Handling of USB cables

- Do not replace, damage, or modify the USB plug or USB cable, place it near a heat source, bend it forcibly, twist it, pull it, place heavy objects on it, or bundle it.
- Never disassemble, repair, or modify a damaged USB plug or USB cable.
- Immediately discontinue use if the USB plug or USB cable is damaged.
- Make sure to insert the USB plug all the way in.
- Do not plug or unplug the USB plug with wet hands.
- Do not leave the USB plug plugged in when not in use.
- Do not pull on the USB cable when carrying or storing the device.
- Do not pinch the USB cable in devices, and do not use the USB cable while it is pulled.
- Regularly check that there is no dust accumulation on the controller and USB plug.
- Do not use the USB plug or USB cable if it is loose.
- When plugging or unplugging the USB plug, hold the tip, do not pull on the USB cable.
- If the USB plug or USB cable becomes abnormally hot or emits smoke or an unusual odor during use, stop using it immediately.

Please read

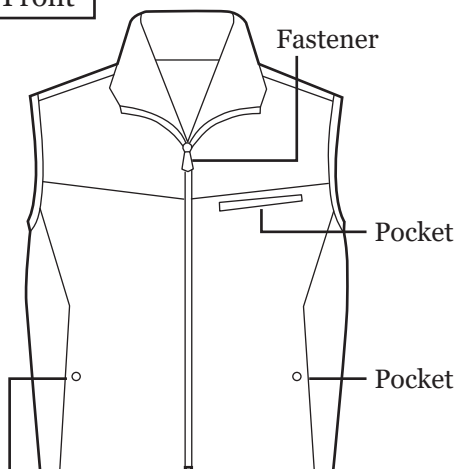
This product requires a mobile battery with a USB Type-C output port. Please use a PD-compatible mobile battery with an output of 9V 2.2A or higher, or a mobile battery with an output of 5V 2.0A or higher. Some mobile batteries may not be compatible due to compatibility issues.

This product is compatible with USB PD (Universal Serial Bus Power Delivery). PD-compatible mobile batteries can supply larger amounts of power than conventional mobile batteries. Therefore, when a PD-compatible mobile battery is connected, the fan's airflow will be stronger than when using a conventional mobile battery.

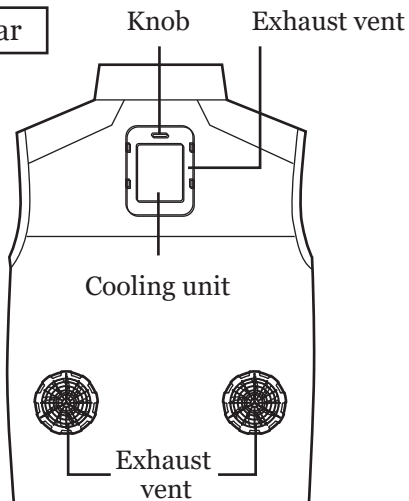
PART NAMES

Vest

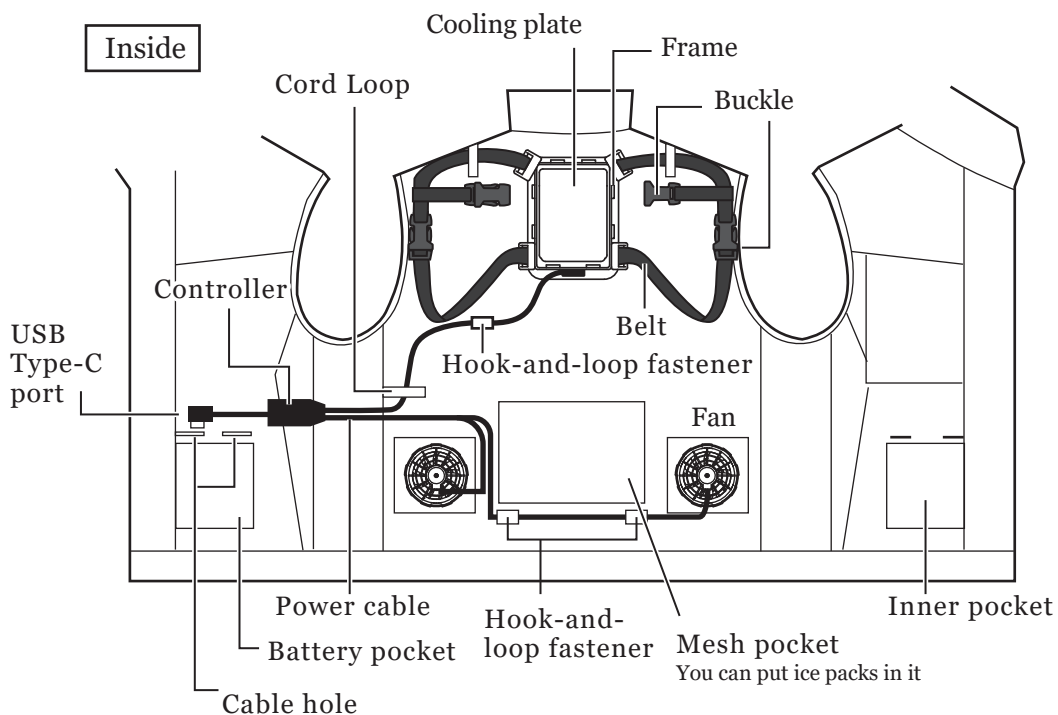
Front



Rear



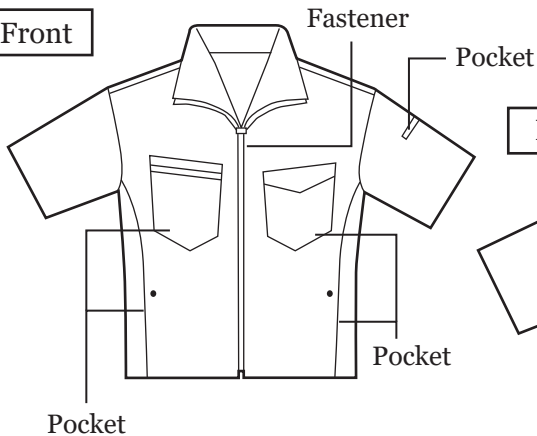
Inside



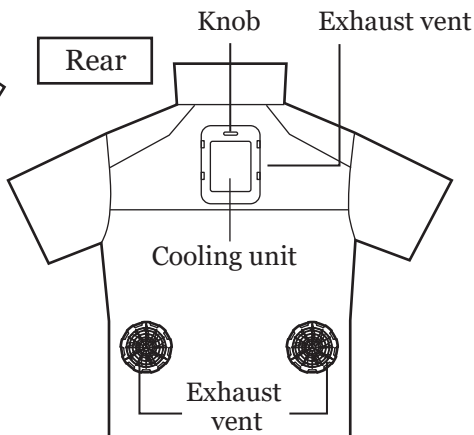
PART NAMES

Short Sleeves

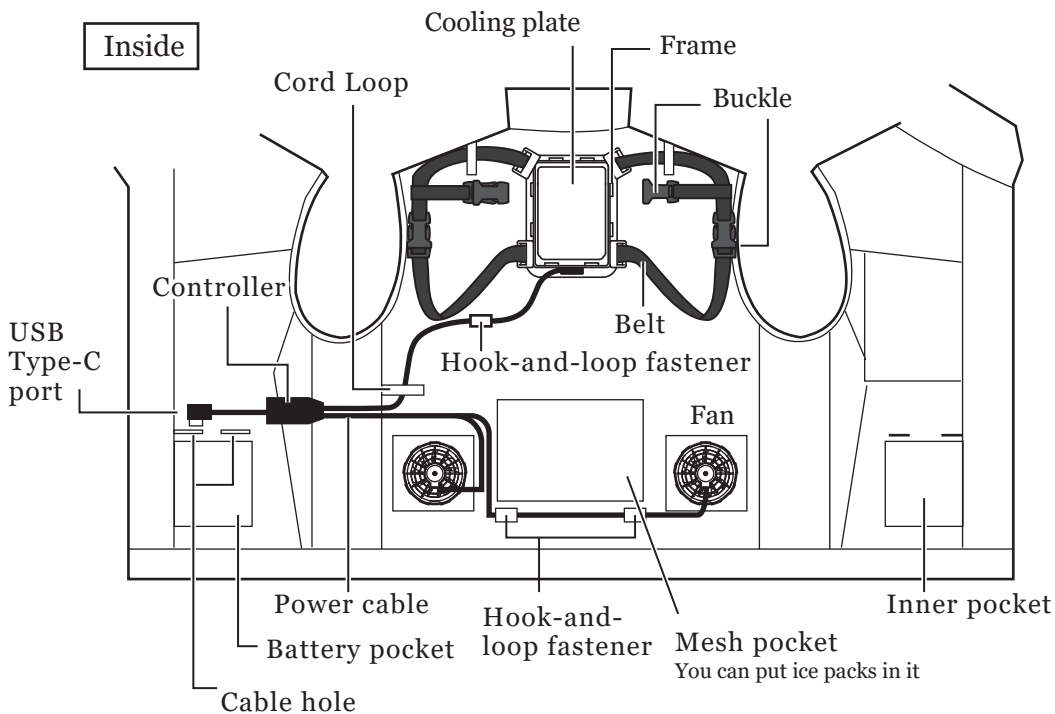
Front



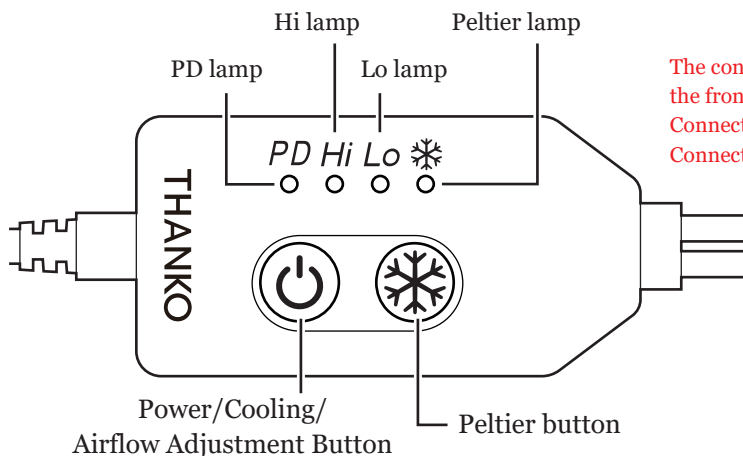
Rear



Inside

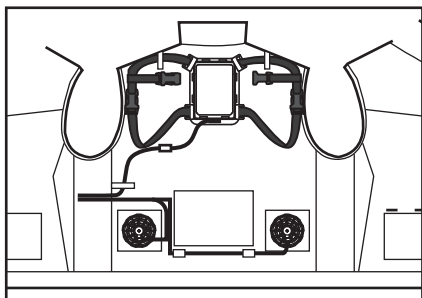


CONTROLLER

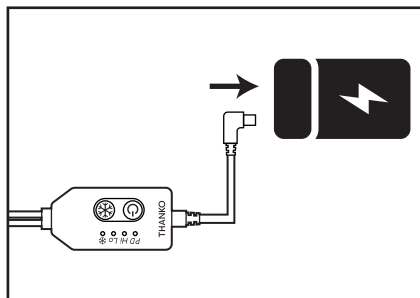


The controller can be operated from the front pocket. Please refer to Connecting the power source - Connecting a mobile battery (to P10).

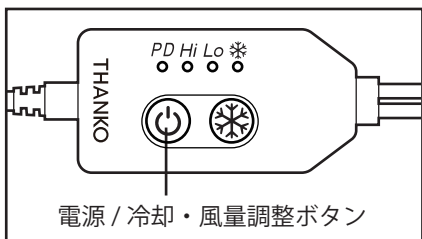
※Please prepare a PD-compatible mobile battery (9V 2.2A or higher) or a mobile battery with a USB Type-C output port (5V 2.0A or higher) separately.



1) Refer to the power supply connection (to page 9) to connect each cable.



2) Connect the USB Type-C terminal of the power cable to a mobile battery (sold separately) (See page 10).



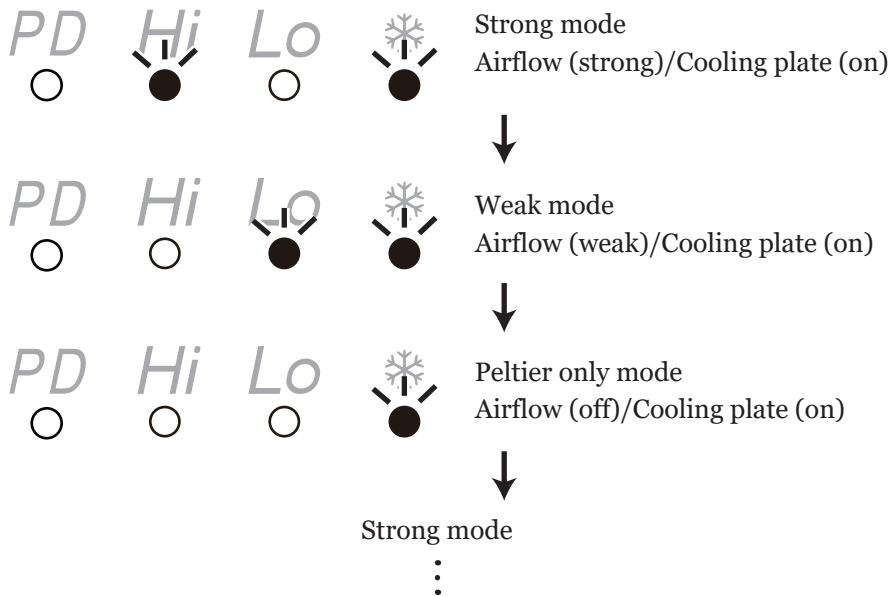
3) Turn on the power. Press and hold the power/cooling/airflow adjustment button for at least 3 seconds.



4) The power will turn on and the Hi lamp and Peltier lamp will light up. To turn off the power, press and hold the Power/Cooling/Airflow Adjustment button for more than 3 seconds.

HOW TO OPERATE

The mode changes each time you press the power/cooling/airflow adjustment button.



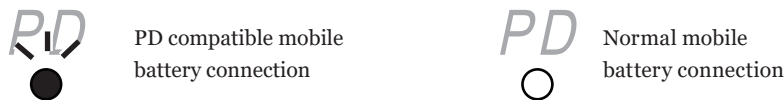
※ The fan's airflow and Peltier cooling are linked. When only the Peltier is in use, the waist fan will stop.

Each time you press the Peltier button, the Peltier cooling will switch on/off.



※ When in Peltier (off) mode, only the waist fan's airflow will switch from strong to weak to strong.

The PD lamp will light up when a PD-compatible mobile battery is connected.



※ The fan strength will differ when using a PD-compatible mobile battery compared to a conventional mobile battery. The fan's airflow will be stronger when using a PD-compatible mobile battery.

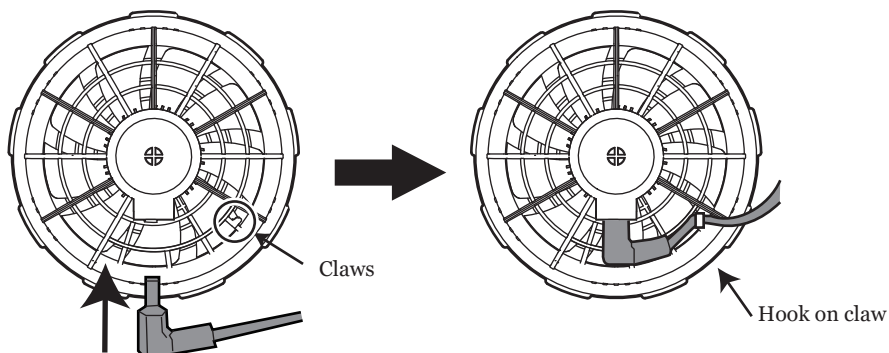
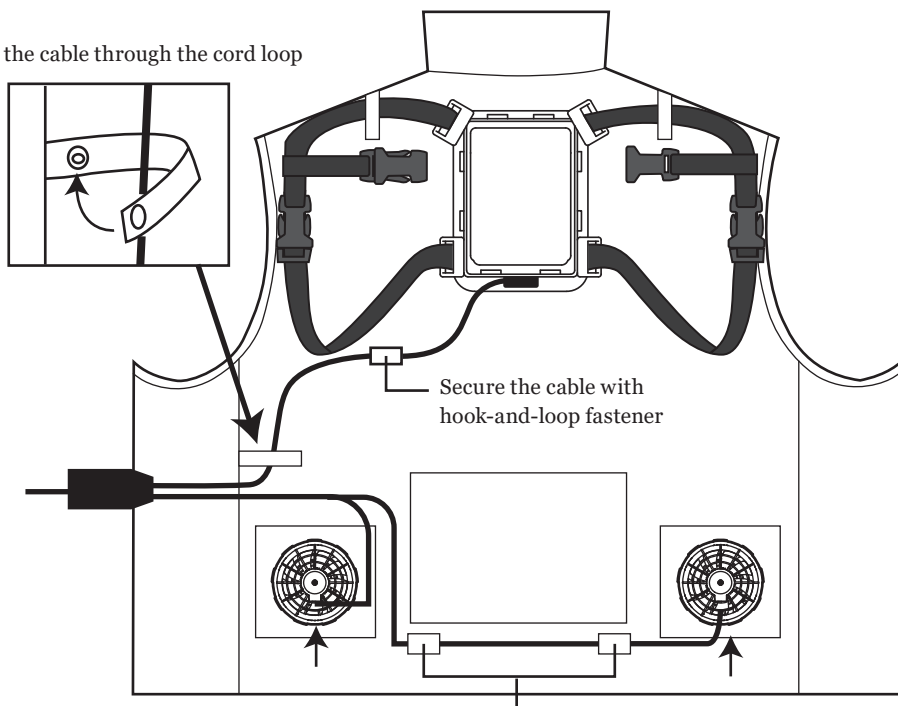
POWER SUPPLY

Connecting each cable

Connect the power cables to each fan.

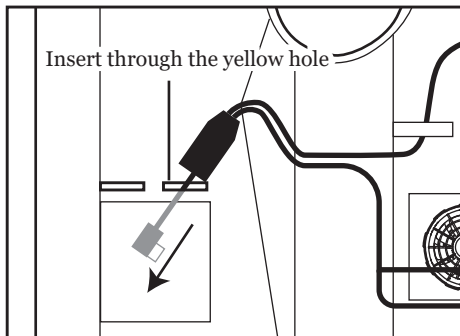
To prevent the cables from coming loose, hook the fan cables onto the tabs and secure them with hook-and-loop fasteners.

Pass the cable through the cord loop

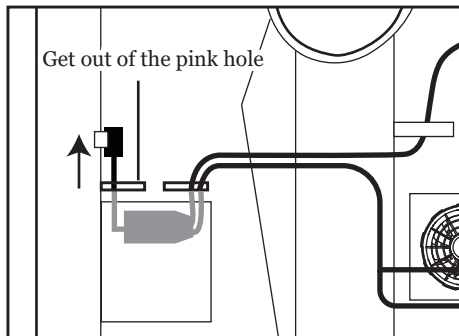


POWER SUPPLY

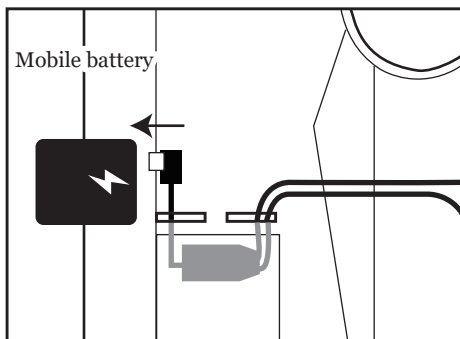
Mobile Battery connection



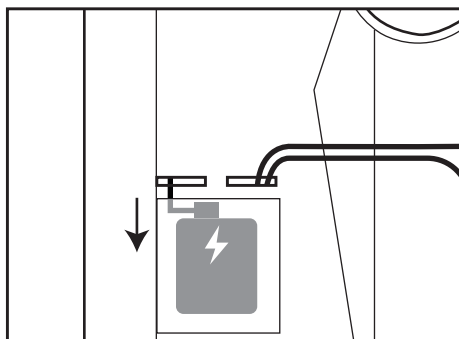
1) Insert the controller into the cable hole (yellow) above the battery pocket.



2) Pull the USB Type-C out through the cable hole (pink) above the battery pocket. This will allow you to operate the buttons from the front pocket.



3) Connect the mobile battery (sold separately) to the USB Type-C terminal.



4) Place the mobile battery in the battery pocket.

※If it gets too cold or after use, press the power button for at least 3 seconds to turn it off.

※The cooling unit fan will continue to run for about 5 seconds after the power is turned off to cool down. This is not a malfunction.

[Error Mode]

If all LEDs on the controller are flashing simultaneously, the following errors may be present:

Fan malfunction within the refrigeration unit

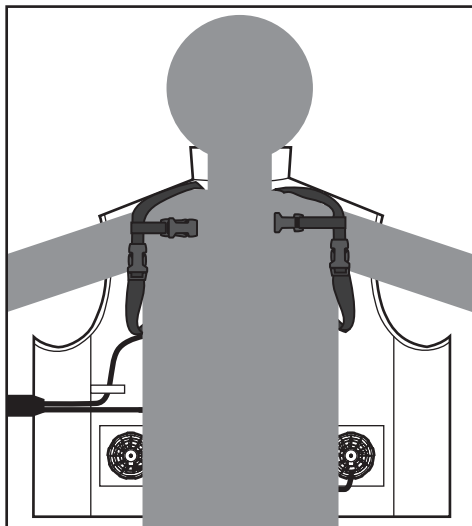
There is a small fan inside the refrigerated suit unit. If this fan is rotating abnormally or has a broken wire, the unit will enter error mode. >>> Check for and remove any foreign objects trapped inside.

After taking the above steps, unplug the USB Type-C plug that is connected to the power source and then plug it back in. If pressing the power button works, the error will be resolved. If it does not work, please contact our support center.

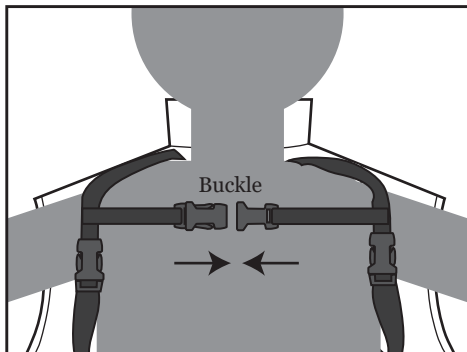
All flashing at the same time



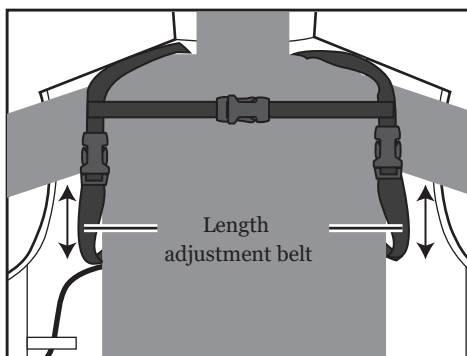
HOW TO WEAR



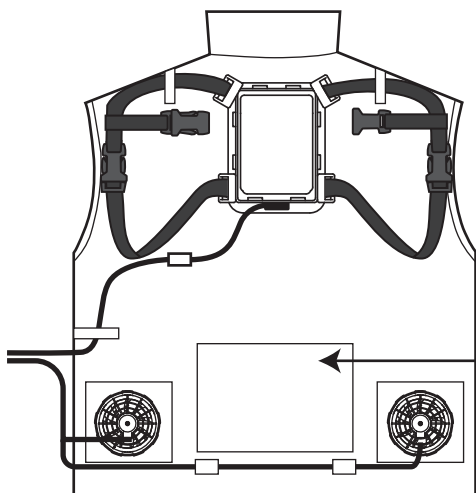
1) The Peltier unit belt is attached to the inside of the clothing. Before putting on the clothing, put your arm through the belt and attach the unit.



2) Fasten the buckle on the chest area.

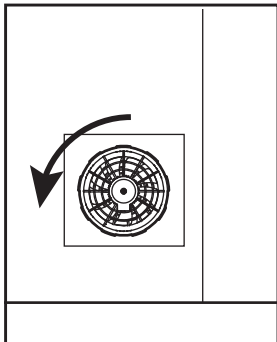


3) Adjust the length of the left and right belts so that the cooling plate fits snugly against your back.

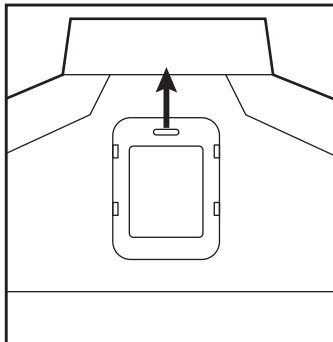


The mesh pocket at the bottom inside can hold ice packs.

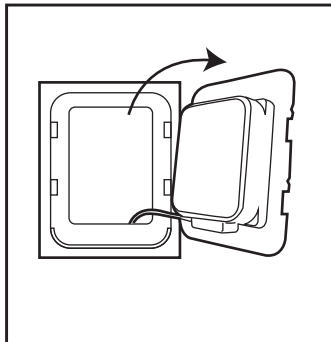
WASHING INSTRUCTIONS



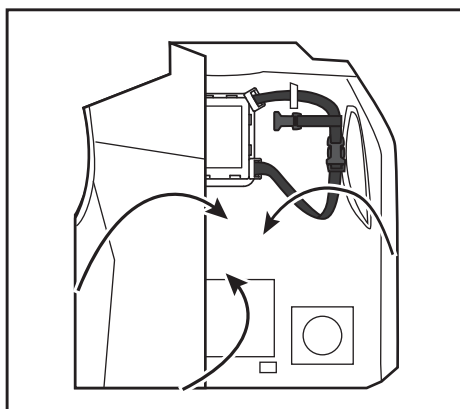
1) Disconnect the cables from the left and right fans and turn them counterclockwise from the inside to remove them.



2) Hold the knob on the cooling unit and slide it up to unlock it.



3) Lift up the cooling unit and remove the cable.



4) Fold the cooling unit frame so that it is wrapped in fabric, place it in a laundry net, and wash according to the washing instructions.

※ The frame cannot be removed. It can be washed while attached to clothing.

Washing instructions



- When washing, fold the unit frame so that it is wrapped around the center of the product and place it in a laundry net to prevent the unit frame from damaging the washing machine or other laundry.
- Due to the characteristics of the product, the unit frame uses plastic parts.
- Do not tumble dry.
- Do not leave the product for long periods of time when it is wet or wet with sweat.
- After washing, turn the product inside out and dry in the shade.
- Do not wash if the unit frame is damaged.

Cooling unit fan maintenance

Normally, wipe with a dry cloth. If dirt is noticeable, wipe with a cloth soaked in diluted dish detergent. Once the dirt is removed, wipe again with a dry cloth.

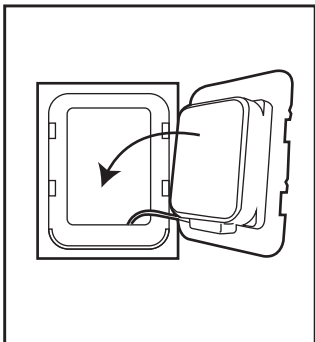


NOTE

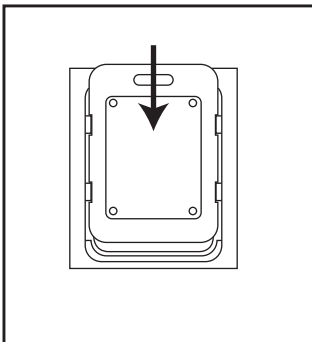
When cleaning, do not use solvents or chemicals such as benzene, thinner, alcohol, or kerosene, bleach, abrasives, or polishing powders. (This may cause discoloration or damage.)

RETURN THE COOLING PLATE FAN

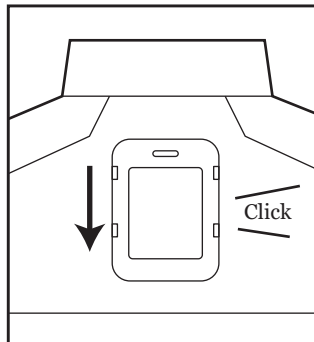
• How to return the cooling plate



1) Insert the cooling unit into the hole from the back. Insert the cable inside.

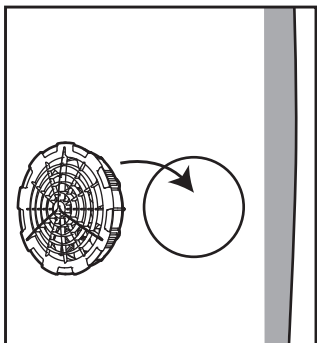


2) Slide the cooling unit down.

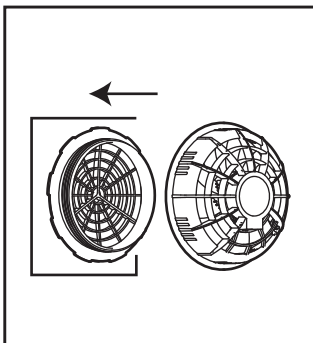


3) Slide it until you hear a click.

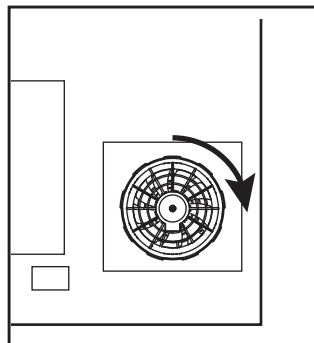
• How to return the fan



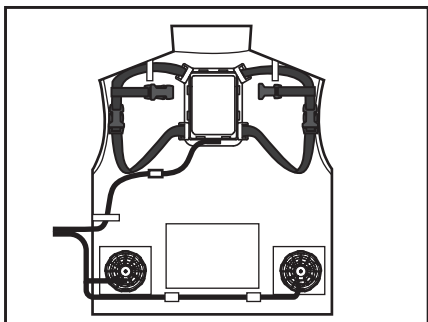
1) Insert the fan guard side (the side without the fan) into the hole from the back.



2) Insert the part with the fan from the inside.



3) Turn clockwise to secure the fan.



4) Refer to the power connection (refer to Page 9) and plug the cable into the fan.

SPECIFICATION

Size (vest)	F(M-LL): Chest: 118cm x Shoulder: 48cm x Length: 68cm x Waist: 86-94cm 3L: Chest: 126cm x Shoulder: 50cm x Length: 70cm x Waist: 94-102cm 5L: Chest: 138cm x Shoulder: 54cm x Length: 71cm x Waist: 102-110cm
Size (short sleeve)	F(M-LL): Chest: 118cm x Shoulder: 48cm x Length: 68cm x Sleeve: 25cm x Waist: 86-94cm 3L: Chest: 126cm x Shoulder: 50cm x Length: 70cm x Sleeve: 26cm x Waist: 94-102cm 5L: Chest: 138cm x Shoulder: 54cm x Length: 71cm x Sleeve: 26cm x Waist: 102-110cm
Weight	about 800g
Power Supply	USB PD: 9V 2.2A or higher; USB: 5V 2.0A or higher
Power Consumption	USB PD: about 20W; USB: about 10W
Mode	Fan: Strong; Weak; Peltier ON/OFF
Operating Time (using a 20,000mAh lithium-ion iron phosphate battery)	Fan + Peltier: High: about 3 hours; Low: about 7 hours; Peltier only: about 7 hours 30 minutes; Fan only: about 5 hours
Cooling Plate Temperature	Strong: -10 to -15°C below ambient temperature; Weak: -5 to -10°C below ambient temperature; Peltier only: -15 to -19°C below ambient temperature ※ Tested at 35°C; ※ No difference between PD and standard USB-C.
Recommended operating temperature range	20°C ~ 35°C
Pocket size	Front abdomen: Width: 16cm; Battery pocket: Length: 13.5cm x Height: 18cm
Cable length	about 90 mm (controller to USB Type-C plug)
Material	Fabric: 100% Polyester (Titanium-Finished) Unit: ABS Cooling Plate: Aluminum
Set contents	Main unit, Instruction manual
Warranty period	12 months from the date of purchase

SPECIFICATION (CONT.D)

- ※ Items other than those listed in the contents are not included.
- ※ This product is not a medical device. It cannot be used for medical procedures such as cooling affected areas.
- ※ Please keep this instruction manual in a safe place. After reading, be sure to keep it in a place where the user can read it at any time. If lending the product to someone else, please give the instruction manual along with the product.
- ※ Due to the manufacturing characteristics of the product, the size may differ by about 1 cm from the stated size, but this does not mean the product is defective. Please note that we cannot accept returns or exchanges.
- ※ If hair gets caught in the fan and causes it to stop, the cooling plate may become hot. If the cooling plate becomes hot, discontinue use immediately and contact our support center.
- ※ Do not connect the unit to a power source except when in use.
- ※ Damage to items caused by using this product is not covered by the support warranty.
- ※ If you notice any abnormalities, stop using it and contact our support center.
- ※ Failure, damage, or modifications caused by customer negligence are not covered by the support warranty.
- ※ We are not responsible for accidents caused by improper use.
- ※ The copyright of this manual belongs to our company, and unauthorized reproduction of all or part of its contents is prohibited.
- ※ Product specifications may be changed without notice for improvement purposes, and may therefore differ from the contents of the manual.

SUPPORT INFORMATION

If you have any inquiries or would like to request repairs

Please visit <https://www.thanko.jp/view/page/support> and contact us via the support page.

You can also access it by scanning the QR code.



THANKO