



# IZI BODYCOOLING.COM

## CATALOGUE 2023/2024

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**FEEL BETTER, ACHIEVE MORE**

# IZI BODYCOOLING.COM

COOLING TECHNOLOGY



IZI BodyCooling.com coolwear reduces skin temperature and may reduce core body temperature. IZI BodyCooling.com coolwear will make you feel more comfortable at work, at home and while sporting. Moving in high temperatures has a negative effect on individual performance. Using IZI BodyCooling.com certified industrial coolwear, you will be able to maintain concentration so less mistakes, be more productive, stay focused and cool in a hot environment.

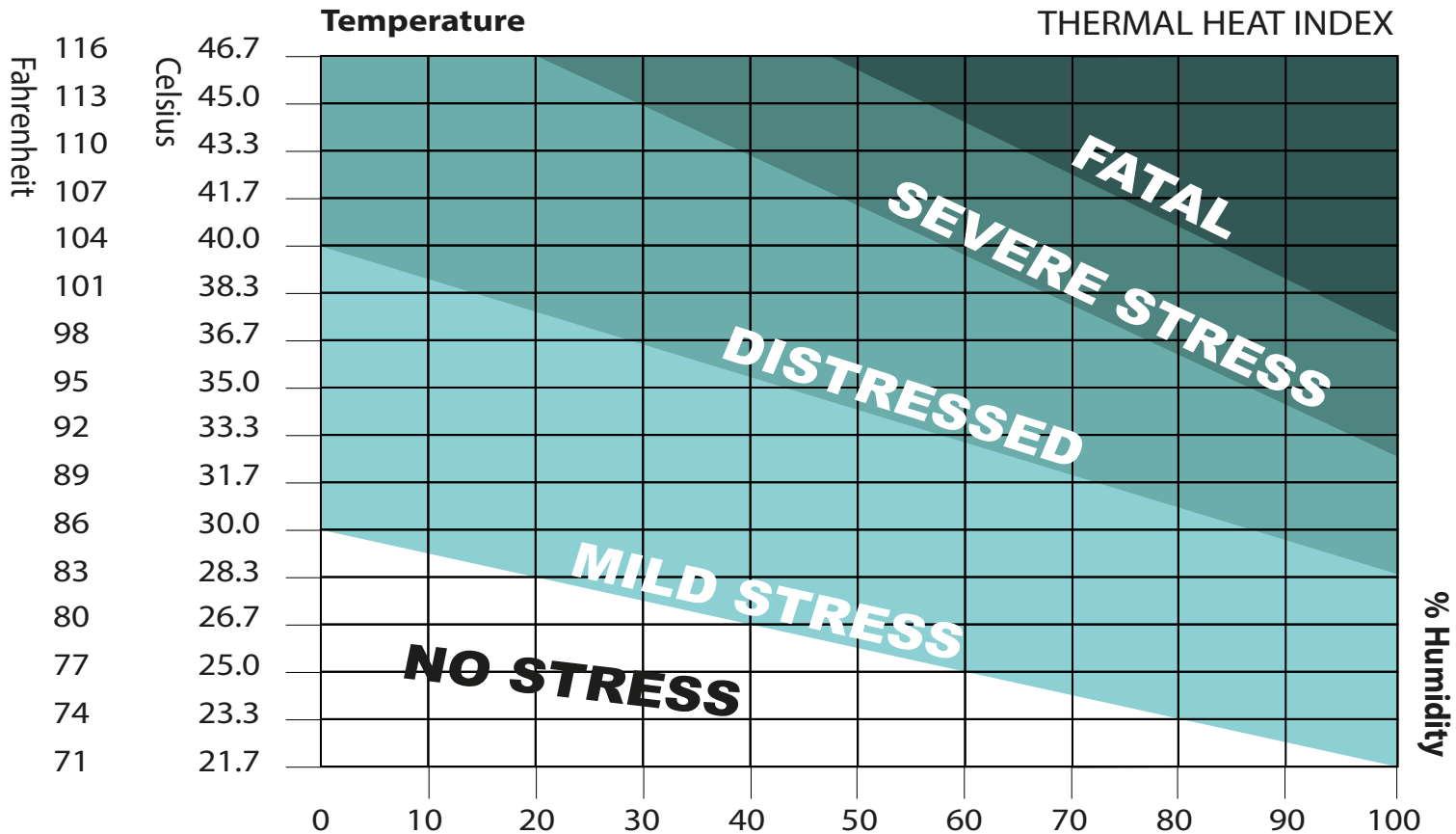
Our products are made and used with respect for the environment. At IZI BodyCooling.com we work hard to minimise the environmental impact of our business. IZI BodyCooling.com coolwear is CO2-neutral and does not leave any carbon footprint.

IZI BodyCooling.com provides a variety of body cooling products that enable you to beat heat stress. We have a solution for every individual, weather condition, work intensity, and required protective clothing. All our products are easy to activate, comfortable to wear and fairly priced.

## FEEL BETTER, ACHIEVE MORE




# CUSTOMER NEED



The way heat stress can be experienced is mainly determined by 2 external factors:

- Temperature
- Humidity

# WHICH COOLING TECHNOLOGY SUITS YOUR NEEDS

 BODYCOOLING.COM	COOLING TIME	CONDITIONS < 90% Humidity	CONDITIONS > 90% Humidity	COOLWEAR ALLOWED AS OUTERLAYER	COOLWEAR NOT ALLOWED AS OUTERLAYER	ACTIVATION
<b>HYDROGEL-COOL</b>	24 to 72 hours	✓		✓		Water
<b>DRY-COOL</b>	24 to 72 hours	✓		✓		Water
<b>FLEX PCM 12°C - 150 grams</b>	up to 2 hours	✓	✓	✓	✓	Freezer/Fridge
<b>FLEX PCM 18°C - 150 grams</b>	up to 2 hours	✓	✓	✓	✓	Freezer/Fridge
<b>FLEX PCM 24°C - 150 grams</b>	up to 2 hours	✓	✓	✓	✓	Freezer/Fridge or room at max. 20°C
<b>FLEX PCM 30°C - 150 grams</b>	up to 2 hours	✓	✓	✓	✓	Freezer/Fridge or room at max. 25°C
<b>FLEX PCM 12°C - 250 grams</b>	up to 4 hours	✓	✓	✓	✓	Freezer/Fridge
<b>FLEX PCM 18°C - 250 grams</b>	up to 4 hours	✓	✓	✓	✓	Freezer/Fridge
<b>FLEX PCM 24°C - 250 grams</b>	up to 4 hours	✓	✓	✓	✓	Freezer/Fridge or room at max. 20°C
<b>FLEX PCM 30°C - 250 grams</b>	up to 4 hours	✓	✓	✓	✓	Freezer/Fridge or room at max. 25°C



# INDUSTRIAL

IZI BodyCooling.com coolwear will make you feel more comfortable during and after a hard day at work. Employees using our certified industrial coolwear will be more comfortable, more productive and stay focused and cool in a hot environment. Working in high temperatures has a negative effect on individual performance. There are numerous jobs where a high temperature environment depends on the location and season in the world.

Employees such as construction workers, steel welders, firefighters, bakers, boiler room operatives, factory and production workers, mechanics, indoor and outdoor builders and many others, run the risk of heat stress on a daily basis. Working in high temperatures has a detrimental effect on individual performance. Comfort will be less, productivity will decrease significantly. Scientific tests prove that temperatures between 19°C and 22°C are ideal. Productivity and concentration levels will decline at higher temperatures with tens of percentages (please e-mail us for more information). Body cooling can avoid heat stress and will substitute to more personal comfort in a hot workplace environment.

Feel better, Achieve more!



## Weather

Air, temperature, humidity, air speed, radiant surfaces

## Work Rate

Strenuous work, when and how often breaks scheduled

## The Individual

Acclimatisation, age, medical conditions

## Clothing

Personal Protective Equipment (PPE)

## References in Industry



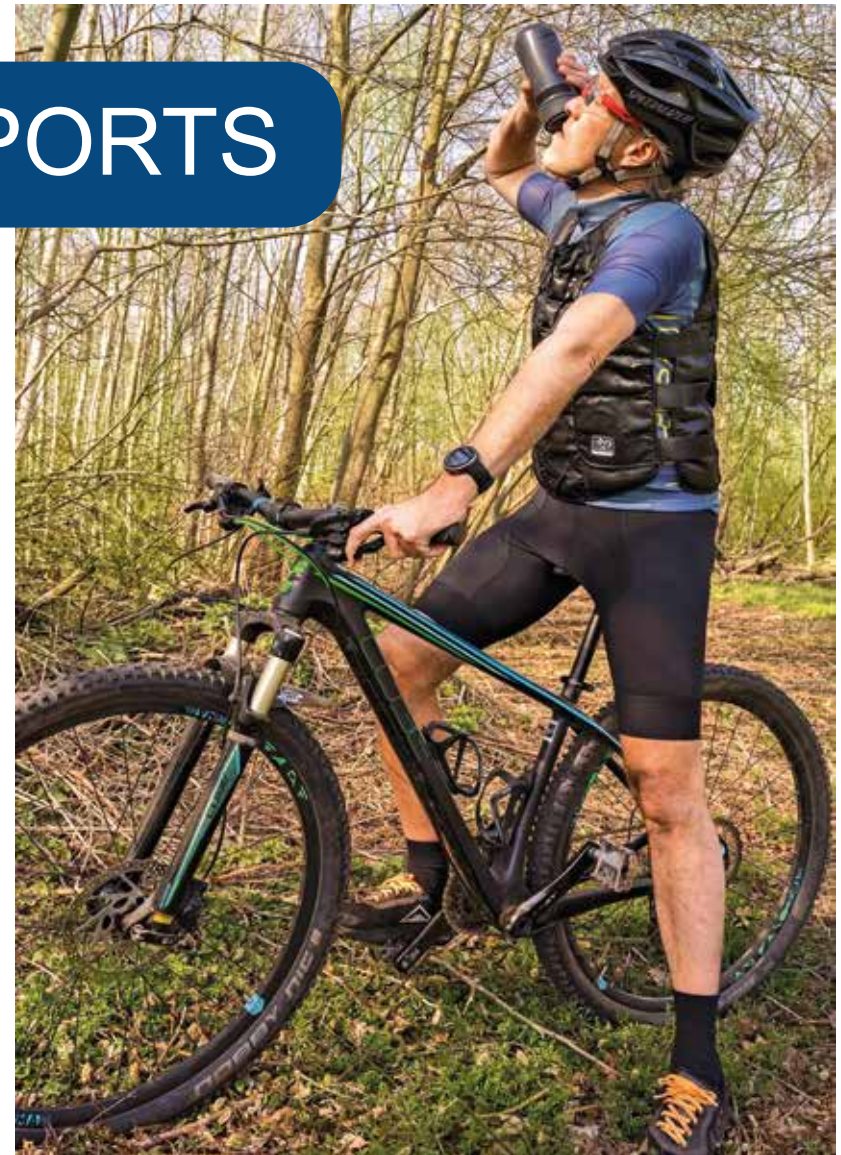


# SPORTS

Since the IZI BodyCooling.com vests were used during the 2008 Olympics in Beijing, London 2012, Rio 2016 and Tokyo 2021 many other professional sports teams and athletes have experienced the benefits of our coolwear. Using the IZI BodyCooling.com coolwear before, during and after training and during time-outs at competitions will enhance your ability to perform better. It will help you to optimise your performance, increase stamina, minimise dehydration and maximise strength in warm weather conditions. Our cooling technologies have been evaluated by professional organisations and athletes and were found to be outstanding in performance under all kinds of heat conditions. It is also scientifically proven to enhance performance through body temperature control.

Many professional athletes in various sports disciplines use our body cooling products and for many of them IZI BodyCooling.com coolwear has become an essential part of their sports outfit. Cooling can be that extra percentage that decides whether you win or lose!

Hence our slogan: Feel better, Achieve more!



## References in Sports



# MEDICAL



There is an array of illnesses and physical conditions that leave a person vulnerable to heat stress. Some can be permanent, such as MS (Multiple Sclerosis), paraplegia or rheumatism. Some are temporary, like menopause hot flash, headache, swelling or inflammation. Irrespective of the cause, symptoms can be substantially alleviated with our range of medical cooling garments.

Our medical cooling products do not contain a healing power, but provide relief. Test results prove the additional value of cooling and is recommended as relevant for the healing process.

## DRY-COOL®

The patented DRY-COOL® technology is a unique, super absorbing cooling material offering a high standard in evaporative cooling. The DRY-COOL® panels on front and back of the vest are capable of retaining water for 24 to 72 hours and provide cooling there where it is needed thanks to special treated fabrics which have been used in the most effective way so the cooling surface and hence your cooling experience is optimised. This DRY-COOL® technology works perfect in a broad humidity environment (< 90% RH).

**FEEL BETTER, ACHIEVE MORE**



DRY - COOL TECHNOLOGY®



KEEPS YOU DRY WHILE COOLING  
EASY TO ACTIVATE AND IMMEDIATE COOLING  
PATENTED DRYCOOL® TECHNOLOGY



EVAPORATION



EASY (IZI) > FILL WITH TAP WATER AND COOLING STARTS IMMEDIATELY



COOLING FOR 24 TO 72 HOURS



HUMIDITY BELOW 90%



OPTIMISE YOUR PERFORMANCE & CONCENTRATION LEVEL  
DURABLE  
MACHINE WASHABLE





## Drycool-10



This patented DRYCOOL® technology, applied to a vest, is a unique, super absorbing cooling material offering a high standard in evaporative cooling.



Shell fabric: 100% Polyester



Keeps you dry while cooling  
Easy to activate + instant cooling  
Machine washable



Max. 1250 grams (activated)



Body conscious fit



Evaporation



1. Fill with tap water
2. Divide the water over the front and back panels
3. Instant cooling



24 to 72 hours



Cools perfectly in temperatures below 40°C and humidity below 90%  
Ventilation/airflow is needed





## Drycool-13 (Class I)



Comfortable, body conscious high visibility vest using the patented DRYCOOL® technology, offering a high standard in evaporative cooling.




Shell fabric: 100% Polyester



Easy to activate + Keeps you dry while cooling

Machine washable

High visibility standards :  1) ANSI/Type 0-Class 1 (USA)  
2) EN20471:2013 Class I (Europe)



Max. 1350 grams (activated)



Body conscious fit



Evaporation



1. Fill with tap water
2. Divide the water over the front and back panels
3. Instant cooling



24 to 72 hours



Cools perfectly in temperatures below 40°C and humidity below 90%  
Ventilation/airflow is needed





## Drycool-14 (Class II)



Comfortable, body conscious high visibility vest using the patented DRYCOOL® technology, offering a high standard in evaporative cooling.




Shell fabric: 100% Polyester



Easy to activate + Keeps you dry while cooling

Machine washable

High visibility standards :  1) ANSI/Type R-Class 2 (USA)  
2) EN20471:2013 Class II (Europe)



Max. 1350 grams (activated)



Body conscious fit



Evaporation



1. Fill with tap water
2. Divide the water over the front and back panels
3. Instant cooling



24 to 72 hours



Cools perfectly in temperatures below 40°C and humidity below 90%  
Ventilation/airflow is needed





Drycool-24



This patented DRYCOOL® technology, applied to a vest, is a unique, super absorbing cooling material offering a high standard in evaporative cooling.



Shell fabric: 100% Polyester



Keeps you dry while cooling  
Easy to activate + instant cooling  
Light weight  
Machine washable



Max. 1000 grams (activated)



Body conscious fit



Evaporation



1. Fill with tap water
2. Divide the water over the front and back panels
3. Instant cooling



24 to 72 hours



Cools perfectly in temperatures below 40°C and humidity below 90%  
Ventilation/airflow is needed





Drycool-25



Comfortable, body conscious high visibility vest using the patented DRYCOOL® technology, offering a high standard in evaporative cooling.



Shell fabric: 100% Polyester



Easy to activate + Keeps you dry while cooling  
Machine washable  
High visibility properties  
Light weight



Max. 1000 grams (activated)



Body conscious fit



Evaporation



1. Fill with tap water
2. Divide the water over the front and back panels
3. Instant cooling



24 to 72 hours



Cools perfectly in temperatures below 40°C and humidity below 90%  
Ventilation/airflow is needed





# IZI BODYCOOLING.COM

DRY COOL TECHNOLOGY



## Drycool-15



This patented DRYCOOL® technology, applied to a Baseball cap, is a unique, super absorbing cooling material offering a high standard in evaporative cooling.



Shell fabric: 100% Polyester



Keeps you dry while cooling  
Easy to activate + instant cooling  
Light weight  
Machine washable



Max. 300 grams (activated)



Adjustable fit



Evaporation



1. Fill with tap water
2. Divide the water over the cap panels
3. Instant cooling



24 to 48 hours



Cools perfectly in temperatures below 40°C and humidity below 90%  
Ventilation/airflow is needed





# IZI BODYCOOLING.COM

DRY COOL TECHNOLOGY



## Drycool-16



This patented DRYCOOL® technology, applied to a Bucket hat, is a unique, super absorbing cooling material offering a high standard in evaporative cooling.



Shell fabric: 100% Polyester



Keeps you dry while cooling  
Easy to activate + instant cooling  
Light weight  
Machine washable



Max. 300 grams (activated)



Measure your head circumference and choose your size



## Evaporation



1. Fill with tap water
2. Divide the water over the cooling panels
3. Instant cooling



24 to 48 hours



Cools perfectly in temperatures below 40°C and humidity below 90%  
Ventilation/airflow is needed



## HYDROGEL-COOL®

At a humidity below 90%, the HYDROGEL-Cool® product is the perfect cooling solution. It is also the world champion in cooling time: 72 hours of cooling by evaporation! 30 minutes to 2 hours as ICE vest!

**How does it work :** Super absorbing polymers (SAP) have been placed in the shape of sealed pockets between 2 layers of fabric. When the SAP (hard polymer grains) comes into contact with water, it changes into a soft Hydrogel. By using the sealing technology, leakage of the Hydrogel will be avoided. Next, the water absorbed inside the sealed pockets will start evaporating which causes cooling ... The process of sweating is simulated. Once the water is evaporated simply reactivate it with water : as easy (IZI) as that !

**FEEL BETTER, ACHIEVE MORE**



HYDROGEL - COOLING TECHNOLOGY®



WORLD CHAMPION IN COOLING TIME!



EVAPORATION & ICE



EASY & FAST > SOAK IN WATER FOR 10 TO 15 MINUTES



UP TO 72 HOURS BY EVAPORATION  
30 MINUTES TO 2 HOURS AS ICE



HUMIDITY BELOW 90%



OPTIMISE YOUR PERFORMANCE  
MINIMISE DEHYDRATION  
INCREASE STAMINA





Hydrogel-04



Comfortable, body conscious cooling vest with knitted sidepanels and collar  
Sealed Hydrogel cooling panels on the front and back that provide perfect cooling to the upper body



Shell fabric: 100% Polyester



World champion in cooling time : Up to 72 hours!  
Cooling by evaporation (72h) & ice (2h)



2.200 grams (activated)



Body conscious fitting



Evaporation & ice



1. Immerse the vest in tap water
2. Dry by hanging or rolling into a towel
3. Instant cooling



Up to 72 hours by evaporation  
30 minutes to 2 hours as ice



Cools perfectly in humidity below 90%  
No limits if used as ice vest





## Hydrogel-05



Comfortable, body conscious cooling vest with adjustable sidepanels for perfect fitting. Our Hydrogel cooling technology used on the front and back panels providing perfect cooling to the upper body



Shell fabric: 100% Polyester



World champion in cooling time : Up to 72 hours!  
Cooling by evaporation (72h) & ice (2h)  
Adjustable sizing



2.200 grams (activated)



Fit is body conscious and adjustable



Evaporation & ice



1. Immerse the vest in tap water
2. Dry by hanging or rolling into a towel
3. Instant cooling



Up to 72 hours by evaporation  
30 minutes to 2 hours as ice



Cools perfectly in humidity below 90%  
No limits if used as ice vest





Hydrogel-08  
Hydrogel-10



Hydrogel cooling technology used on your chosen cooling product  
Ask about our wide range of customisation options



Shell fabric: 100% Polyester



Customising possibilities which make your cooling product ideal for the commercial marketing or creative requirements linked to your company, sports team or organisation



Depending on the type of cooling product, but with an average of around 1500 grams



Fit is always body conscious and/or adjustable



Evaporation & ice (as ice mostly used in (top)sports)



1. Immerse the Hydrogel product in tap water
2. Dry by hanging or rolling into a towel
3. Instant cooling



Up to 72 hours by evaporation  
30 minutes to 2 hours as ice



Cools perfectly in humidity below 90%  
No limits if used as ice vest



Customised





## Hydrogel-12 (Class I)




Comfortable, body conscious high visibility vest with elastic sidepanels for perfect fitting. Our Hydrogel cooling technology used on the front and back panels providing perfect cooling to the upper body.



Shell fabric: 100% Polyester



World champion in cooling time : Up to 72 hours!

High visibility standards :  1) ANSI/Type 0-Class 1 (USA)  
2) EN20471:2013 Class I (Europe)



2.000 grams (activated)



Fit is body conscious



Evaporation & ice



1. Immerse the vest in tap water
2. Dry by hanging or rolling into a towel
3. Instant cooling

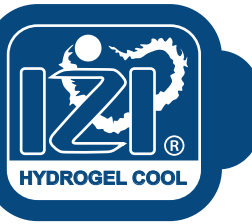


Up to 72 hours by evaporation  
30 minutes to 2 hours as ice



Cools perfectly in humidity below 90%  
No limits if used as ice vest





## Hydrogel-22 (Class II)




Comfortable, body conscious high visibility vest with elastic sidepanels for perfect fitting. Our Hydrogel cooling technology used on the front and back panels providing perfect cooling to the upper body.



Shell fabric: 100% Polyester



World champion in cooling time : Up to 72 hours!  
High visibility standards :  1) ANSI/Type R-Class 2 (USA)  
2) EN20471:2013 Class II (Europe)



2.000 grams (activated)



Fit is body conscious



Evaporation & ice



1. Immerse the vest in tap water
2. Dry by hanging or rolling into a towel
3. Instant cooling



Up to 72 hours by evaporation  
30 minutes to 2 hours as ice



Cools perfectly in humidity below 90%  
No limits if used as ice vest





Hydrogel-13



Sporty, lightweight cooling vest with knitted mesh panels to provide extra ventilation. Our Hydrogel cooling technology used on the front and back providing perfect cooling to the upper body.



Shell fabric: 100% Polyester



The ideal cooling solution for sports during warm weather to achieve more Developed in cooperation with the NOC\*NSF for the Rio Olympics 2016



1.000 grams (activated)



Tight, sporty fit



Evaporation & ice



1. Immerse the vest in tap water
2. Dry by hanging or rolling into a towel
3. Instant cooling



Up to 48 hours by evaporation  
60 minutes as ice



Cools perfectly in humidity below 90%  
No limits if used as ice vest



## FLEX PCM-COOL®

At a high humidity of the surrounding atmosphere, the Flex PCM® products will cool your body thanks to a different cooling process. Heat is absorbed or released when the material changes from a flexible paste to a more liquid material and vice versa.

Phase Change Materials are capable of storing and releasing large amounts of energy and are classified as latent heat storage units. Our patented Flex PCM® is safe, compared to paraffin based PCM from competitors which is highly flammable. Next it is comfortable thanks to its flexibility and easy to activate.

Flex PCM-Cool® products can be worn under any (protective) clothing.

**FEEL BETTER, ACHIEVE MORE**



FLEX PCM - COOL TECHNOLOGY®



FLEXIBLE AND NON-FLAMMABLE  
AVAILABLE IN 4 TEMPERATURES : 12, 18, 24 OR 30°C  
AVAILABLE IN 2 WEIGHTS : 150 OR 250 GRAMS  
CAN BE CLEANED IN INDUSTRIAL WASHING



HEAT IS ABSORBED OR RELEASED WHEN THE PCM MATERIAL TRANSFORMS FROM A PASTE TO A MORE LIQUID = PHASE CHANGE



EASY (IZI) > ACTIVATE YOUR PCM PAD BY COOLING IT DOWN



COOLING FOR 2 TO EVEN 4 HOURS



COOLS AT ANY TEMPERATURE AND HUMIDITY OVER 90%



OPTIMISE YOUR PERFORMANCE & CONCENTRATION LEVEL  
PERFECT FOR HEAVY INDUSTRIAL USE  
IT EVEN COOLS WHEN WORN UNDER (PROTECTIVE) WORKWEAR

# IZI BODYCOOLING.COM

## FLEX PCM COOLING TECHNOLOGY



PCM-01



The PCM-01 is an effective cooling solution for people working in humidity conditions above 90%. The inside of the vest has 8 pockets in which our Flex PCM cooling pads (to order separately) can be inserted. Amounts of pockets to be filled can be adjusted by the user based on weight & comfort



Shell fabric: 100% Cotton



Finish fabric = Flame Retardant (Class III)  
Perfect cooling vest for heavy industrial applications



500 grams (Without pads)  
1750 grams inclusive 1 full set Flex PCM pads of 150 grms  
2500 grams inclusive 1 full set Flex PCM pads of 250 grms



Fit is body conscious and adjustable



Heat is absorbed or released when the Flex PCM material transforms.



1. Cool (activate) the Flex PCM pads
2. Insert in your PCM-01 vest
3. Instant cooling



Using 150 grams Flex PCM pads > max 2 hours  
Using 250 grams Flex PCM pads > max 4 hours



Flex PCM-Cool© products can be worn under (protective) workwear  
Cools under all circumstances, even > 45°C and > 90% humidity





# IZI BODYCOOLING.COM

## FLEX PCM COOLING TECHNOLOGY



### PCM-02



The PCM-02 is made out of MESH fabric for functionality & effectiveness. The inside of the vest has 8 pockets in which our Flex PCM cooling pads (to order separately) can be inserted. Amounts of pockets to be filled can be adjusted by the user based on weight & comfort.



Shell fabric: 100% Nylon



MESH fabric for extra ventilation  
Excellent vest for industrial applications



500 grams (Without pads)  
1750 grams inclusive 1 full set Flex PCM pads of 150 grms  
2500 grams inclusive 1 full set Flex PCM pads of 250 grms



Fit is body conscious and adjustable



Heat is absorbed or released when the Flex PCM material transforms.



1. Cool (activate) the Flex PCM pads
2. Insert in your PCM-02 vest
3. Instant cooling



Using 150 grams Flex PCM pads > max 2 hours  
Using 250 grams Flex PCM pads > max 4 hours



Flex PCM-Cool© products can be worn under (protective) workwear  
Cools under all circumstances, even > 45°C and > 90% humidity



# IZI BODYCOOLING.COM

FLEX PCM COOLING TECHNOLOGY



Flex PCM  
150 grams



Set of 8 Flex PCM pads available in 12, 18, 24 and 30°C  
Weight of each pad is 150 grams



Phase Change Material



Flexible & non-flammable  
High thermal conductivity once activated



150 grams per pad  
1.200 grams per set (8 pads)



Heat is absorbed or released when the Flex PCM material transforms.



1. Cool (activate) the Flex PCM pads
2. Insert in your PCM-vest
3. Instant cooling



Max 2 hours



Flex PCM-Cool© pads cool under all circumstances, even > 45°C and > 90% humidity and worn under (protective) workwear



- 30°C
- 24°C
- 18°C
- 12°C

# IZI BODYCOOLING.COM

## FLEX PCM COOLING TECHNOLOGY



Flex PCM  
250 grams



Set of 8 Flex PCM pads available in 12, 18, 24 and 30°C  
Weight of each pad is 250 grams



Phase Change Material



Flexible & non-flammable  
High thermal conductivity once activated



250 grams per pad  
2.000 grams per set (8 pads)



Heat is absorbed or released when the Flex PCM material transforms.



1. Cool (activate) the Flex PCM pads
2. Insert in your PCM-vest
3. Instant cooling



Max 4 hours



Flex PCM-Cool© pads cool under all circumstances, even > 45°C and > 90% humidity and worn under (protective) workwear



30°C 24°C 18°C 12°C

# CUSTOMISING

The IZI BodyCooling.com product is ideal for the commercial marketing or creative requirements linked to your company, sports team or organisation.

We can create your customised product any way you want. Our custom cooling garments are made to your specifications including logo's, colors and style.

In case of special requests such as high visibility and material finishings do not hesitate to contact us and ask about the possibilities.



## QUOTE MS PATIENT

I tested my beige cooling vest this morning:  
PERFECT!

I have MS and in warm weather I prefer to stay indoors as my body can not tolerate the heat and therefore I cannot function. I have now gone outside in full sun, with my mobility scooter, wearing my cooling vest and my body remained cool. I finally have energy left to enjoy the rest of the day. I would also like to compliment the supplier: What a fantastic service and advice!

Mrs. Marion Merx





## GENERAL INFORMATION



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**FEEL BETTER, ACHIEVE MORE**



CATALOGUE 2023/24



DRY-COOL<sup>©</sup>

HYDROGEL-COOL<sup>©</sup>

FLEX PCM-COOL<sup>©</sup>