

Reasons to cool your body-temperature?

- To improve your physical efficiency.
- To influence the communication velocity of your nervous system.
- Body-control.
- If perspiring is not sufficient.

Samples for applications:

- to get a positive influence by cooling
- Sports and leisure-time
- Safety-measurements, fire-brigade, military

Advantages:

You are able to wear our cooling-system beneath your ordinary (evaporative) clothes. The textile coolpad are ultra-thin and flexible. You will experience a gentle permanent cooling which lowers the body-temperature by approx. 4° C . The cooling garments do have a slight thermostat insulation and may be used permanent or punctual.

The production is in Switzerland.

Patent by UNICO swiss tex GmbH.



Personal Cooling System



Personal Cooling System (PCS):
medical device class 1 for multiple
sclerosis patients to improve the
physical efficiency.

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History

There was - like with many other innovation - a coincidence responsible for the discovery. A doctor who suffered herself of multiple sclerosis discovered the agreeable effect of the cooling of evaporating water. She was astonished that – after she got caught by an unexpected cloudburst – the wet clothes helped her to endure walking without getting tired. The reason is simple: While the garments were drying the evaporating water lead to a local lowering of the skin temperature – thus resulting that nerve cells could transport impulses faster and therefore gross- and fine motor performance improved..

Hightech-Textiles with cooling-effects

Could the same effect of the cloudburst also be achieved? Could you get the effect with high-tech textiles? Cooling-systems were already known in the space research and also in military fields. But those garments could not be worn in ordinary life as all of them narrow the patients' freedom of action.



To develop a solution for ordinary life, the research and development unit of the Empa searched in the textile industry. The result is an innovative garment based on a very thin textile-based 3-layer laminate of two waterproof, but water vapour-permeable polyester membranes which coat a hydrophilic fabric acting as water reservoir. By addition of a small quantity of water, the hydrophilic fabric is moistened and the evaporation of water through the outer polyester membrane leads to a local lowering of the skin temperature (4 to 5 degrees Celsius over a period of up to 40 minutes).

Once the water evaporates, it can be re-filled as often as needed without any loss.



That cooling of the body-temperature can have an agreeable impact is not new. But new is that cooling garments exist with the same effect of evaporation.

Other options:



Our cooling-garments do not have any healing-power. But many patients may be supported with our development in their daily life and therefore we may reactivate joy for life.

Price-list

Cooling-pants f/m

Size 11, 12, 13	CHF 220.–
Size 14, 15, 16, 17	CHF 230.–
Size 18, 19, 20	CHF 240.–

Cooling-shirts f/m

Size XXS, XS, S	CHF 250.–
Size M, L	CHF 260.–
Size XL, XXL	CHF 270.–

The injection needed for filling of the coolpad is included.

Washing instructions

- ❖ Our garments are machine washable up to 30° C. Please follow the instructions within the garment (gentle cycle only)
- ❖ **Do not use** softeners
- ❖ Use a washing net bag
- ❖ Do not use an iron and do not tumble dry.

Handling:

The coolpad have to be filled with water by an injection. The colour of the coolpad get darker when filled and can therefore be observed. Be careful that not too much water is filled in. Too much water could damage the coolpad. Once the water is evaporated, the coolpad can be re-filled.

Delivery within Switzerland:

Delivery charges vary depending on the type of products and are additional

Delivery outside Switzerland:

All our prices are excl. VAT and packing/delivery cost and are due to an surcharge.

advance payment required

Shipment:

The delivery takes normally two weeks. If the products are not on stock, you would be informed immediately. In such a case it is up to you to decide whether you want to wait or to cancel the order.

Substitution:

We reserve the right for technical changes which lead to improvements of the garment without notice.

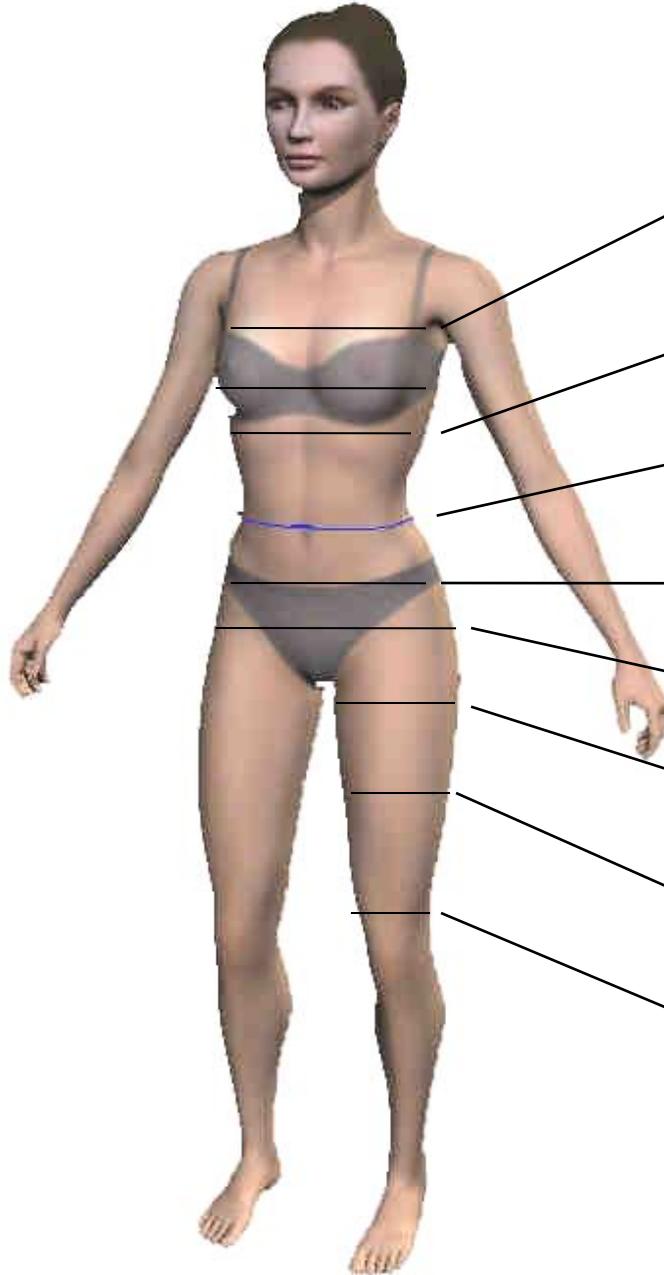
Cancellation right:

If our products are made to order they can therefore not be taken back.

If they are produced after our mass table, we take them back within 8 days.

Cooling-pants for women

Please fill in measurement 4 - 9



Name:.....
Address:.....
Zip-Code / city:.....
My Height is.....
Cloth-size.....:

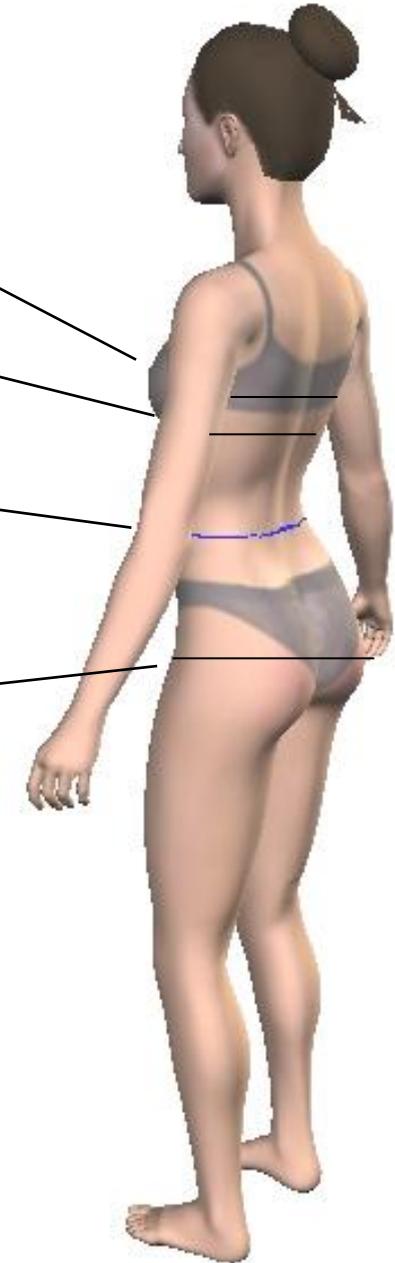
1. Chest I: measure your chest circumference above the breast
2. Chest II: measure your chest circumference at the widest part on your body
3. Chest III: measure your chest directly beneath the breast
4. Waist: measure your waist at the narrowest part
5. Abdomen: measure your circumference at 10cm beneath the waist
6. Hip: measure your hips circumference at 20 - 30cm beneath the waist
7. Thigh: measure your circumference on top
8. Thigh measure your circumference in the middle
9. Knee: measure the circumference just above the knee

Date _____

Signature: _____

Cooling-Shirt's for women

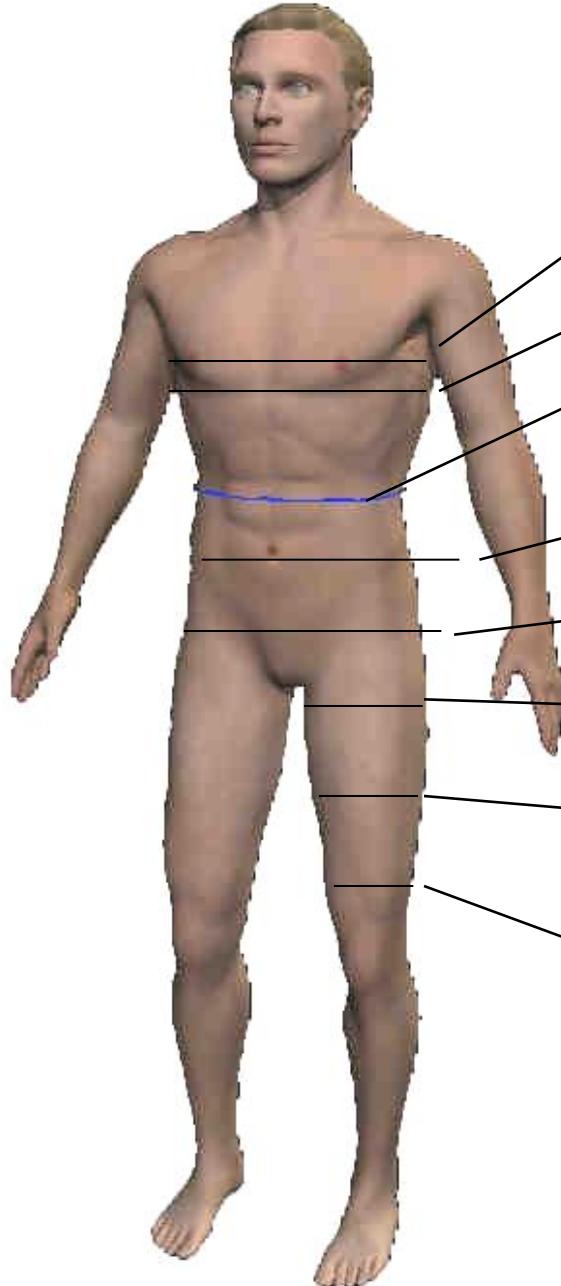
Please fill in measurements 1 – 6



1. Chest I: measure your chest circumference above the breast
2. Chest II: measure your chest circumference at the widest part on your body
3. Chest III: measure your chest directly beneath the breast
4. Waist: measure your waist at the narrowest part
5. Abdomen: measure your circumference at 10cm beneath the waist
6. Hip: measure your hips circumference at 20 - 30cm beneath the waist

Cooling-pants for men

Please fill in measurements 3 -8



Name:.....
Address:.....
Zip-Code / city:.....
My Height is.....
Cloth-size.....:

1. Chest: measure your chest circumference at widest part on your body

2. Chest: measure your circumference beneath the breast

3. Waist: measure your waist at the narrowest part

4. Abdomen: 10 cm beneath the waist

5. Hip: 20-30 cm beneath the waist

6. Thigh: measure your circumference on top

7. Thigh: measure your circumference in the middle

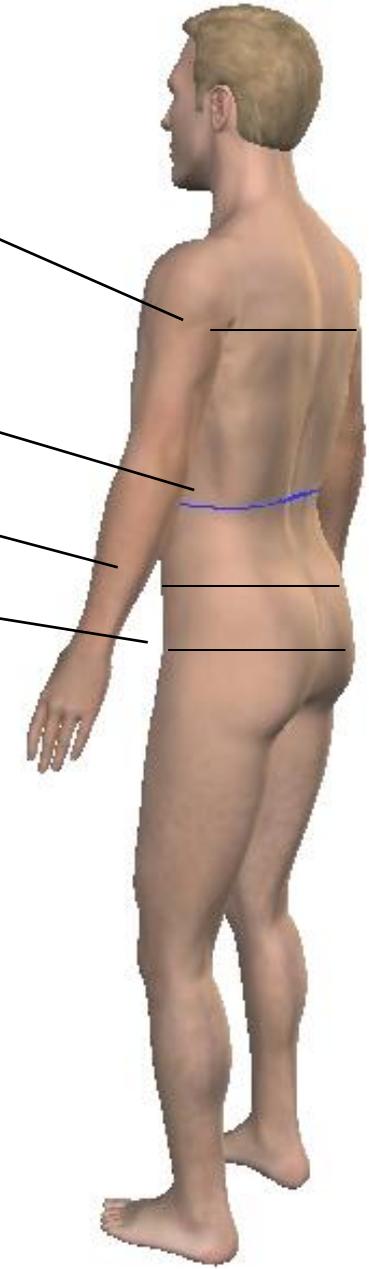
8. Knee: measure the circumference just above the knee

Date: _____

Signature: _____

Cooling-shirts for men

Please fill in measurements 1 – 5



1. Chest: measure your chest circumference at widest part on your body

2. Chest: measure your circumference beneath the breast

3. Waist: measure your waist at the narrowest part

4. Abdomen: 10 cm beneath the waist

5. Hip: 20-30 cm beneath the waist

Measurements pants: unisex										
Measurements		Sizes	11	12	13	14	15	16	17	18
Women	Men									
4	3	Waist: at the narrowest point	65 - 70	69 - 74	73 - 79	77 - 83	83 - 87	87 - 91	89 - 95	95 - 99
5	4	Abdomen: 10cm beneath the waist	73 - 76	76 - 80	80 - 85	85 - 90	90 - 94	94 -97	97 - 101	101 - 105
6	5	Hip: 20-23cm beneath the waist	89 - 92	91 - 94	94 - 98	98 - 102	102 - 107	106 - 110	110 - 114	114 - 119
7	6	Thigh: circumference on top	46 - 48	48 - 50	50 - 54	54 - 58	58 - 62	58 - 62	60 - 64	61 - 65
8	7	Thigh: circumference on the middle	41 - 43	43 - 45	44 - 47	47 - 50	50 - 53	51 - 54	53 - 57	53 - 57
9	8	Knee: circumference just above the knee	35 - 37	36 - 38	37 - 39	39 - 41	41 - 44	41 - 44	42 - 45	42 - 45

Measurements Cooling Shirt for Women							
Measurement	Sizes	XXS	XS	S	M	L	XL
1	Chest: above the breast	79 - 83	83 - 87	87 - 91	91 - 95	95 - 99	99 - 104
2	Chest: circumference at widest part	83 - 87	87 - 91	91 - 95	95 - 99	99 - 103	103 - 107
3	Chest: Circumference directly beneath the breast	71 - 75	75 - 79	79 - 85	85 - 91	91 - 97	97 - 103
4	Waist: at the narrowest part	65 - 69	69 - 73	73 - 77	77 - 83	83 - 89	89 - 95
5	Abdomen: 10cm beneath the waist	73 - 77	77 - 81	81 - 85	85 - 91	91 - 97	97 - 103
6	Hip: 20-30 cm beneath the waist	89 - 93	93 - 97	97 - 101	101 - 107	107 - 113	113 - 119

Measurements Cooling Shirt for Men							
	Sizes	XXS	XS	S	M	L	XL
1	Chest: circumference at widest part	87 - 91	91 - 95	95 - 99	99 - 103	103 - 107	107 - 111
2	Chest: circumference beneath the breast	83 - 87	87 - 91	91 - 95	95 - 99	99 - 103	103 - 107
3	Waist: at the narrowest part	79 - 83	83 - 87	87 - 91	91 - 95	95 - 99	99 - 103
4	Abdomen: 10cm beneath the waist	85 - 89	89 - 93	93 - 97	97 - 101	101 - 105	105 - 109
5	Hip: 20-30cm beneath the waist	94 - 98	98 - 102	102 - 106	106 - 110	110 - 114	114 - 118