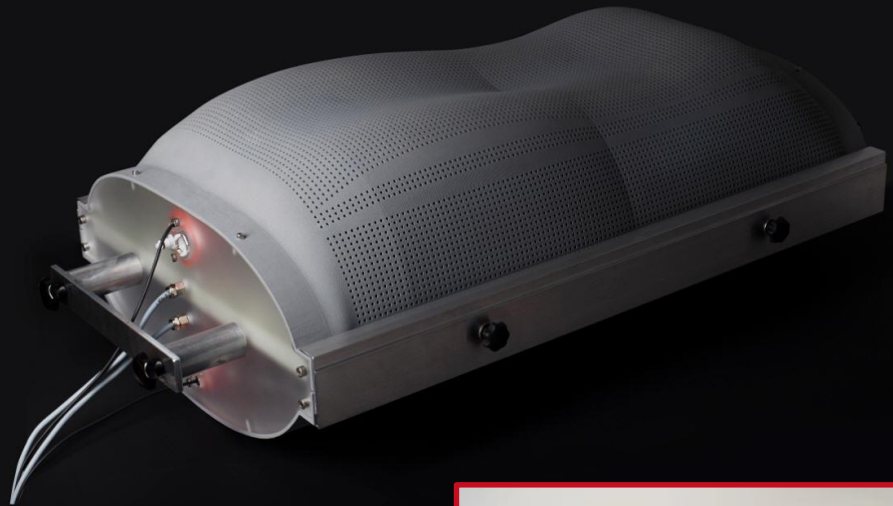


SWEATOR *INSIDE HUMIDITY*



SWEATOR-SKIN – key to climate comfort

SWEATOR SKIN

SWEATOR technology simulates human thermoregulation behavior by emitting controlled heat and humidity into ready-made product environments as well as textile samples or compounds.

SWEATOR-SKIN has been designed to simulate these processes on textile patterns with focus on thermodynamic physics.

Product features:

- Easy handling
- Reproducible data output
- Controlled heat and water vapor emission
- No direct wet spots – water vapor only
- Integrated heat and pump unit for even heat supply
- Controlled convection unit above test textile
- Control unit with touch screen
- Various warm up and test modes
- Diverse sweat rates
- Proven technology

Fields of application:

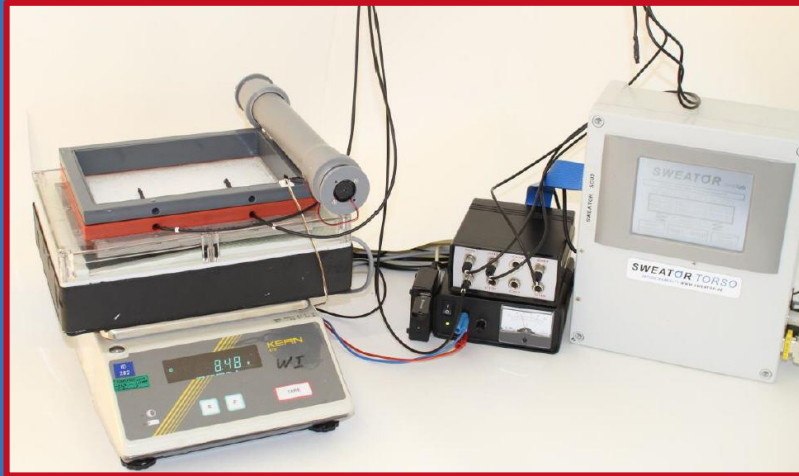
- Climate simulation around textile patterns
- Professional concept to build up reproducible climate data
- Comparison of the climate behavior of different products
- Development of climate comfort attributes
- Optimization of Quality Management
- Calculation of major thermo-dynamic key figures

All SWEATOR products:

- Torso (bedding – image above)
- Torso (apparel)
- Skin (textile patterns)
- Head (head protection)
- Foot (footwear)
- Other shapes upon request

We will be pleased to talk to you:





General technical data:

Control:	Stand alone touch screen panel for data input and storage with wall holders.
Power supply:	110 - 240 V, 300 W (global standards available)
Humidity emission:	Only water vapor, no wet-spots.
Heating:	Infinitely controllable from 10 – 100 Watt
Temperature control:	Controller with PT 1000
Size:	Skin appr 30 x 25 x 10 cm, sweat areas 14.5 x 19.5 cm
Sweat simulation:	Permeable membrane technology, water tank, heated
Filling:	Up 3 l of distilled water
Permeability:	Appr from 220 g/m ² h – 360 g/m ² h with uncovered sweat field at 21°C/50 % RH room climate and 37° C/100 % RH SWEATOR core conditions.
Shape:	2D-contour of sweat field with application to mount textile pattern and provide controlled convection above the pattern.
Data conducted:	Heat/Pump demand, temperature in the core, time, T/RH of environment, weight (with a scale connected to SCU unit – not included in the scope of delivery).
Length of cables:	On demand
FI protection switch:	yes
CE conformity:	yes
Add-on devices:	Scale can be integrated