

SWEATOR *INSIDE HUMIDITY*



SWEATOR HEAD

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

SWEATOR-HEAD has been designed to simulate these processes within head protection devices of all kinds.

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
- Norm head with 59 cm diameter
- Control unit with touch screen
- Various warm up and test modes
- Several sweat rates
- Proven technology

Fields of application:

- Climate simulation in head protection devices
- 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:





SWEATOR-Head

Left SCU2 control unit with touchscreen

General technical data:

| | |
|-----------------------|--|
| Control: | Stand alone touch screen panel for data input and storage with wall holders. |
| Power supply: | 110 - 220 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: | Head appr 31 x 20 x 10 cm with console |
| Sweat simulation: | Permeable membrane technology, water bladder, heated |
| Filling: | Up 3 l of distilled water |
| Permeability: | Appr from 90 g/m ² h – 120 g/m ² h with standard shells at 21°C/50 % RH room climate and 37° C/100 % RH SWEATOR core conditions. |
| Shape: | Normed head based on DIN EN 960:2006, size 585, hollow |
| 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 into SCU2 |