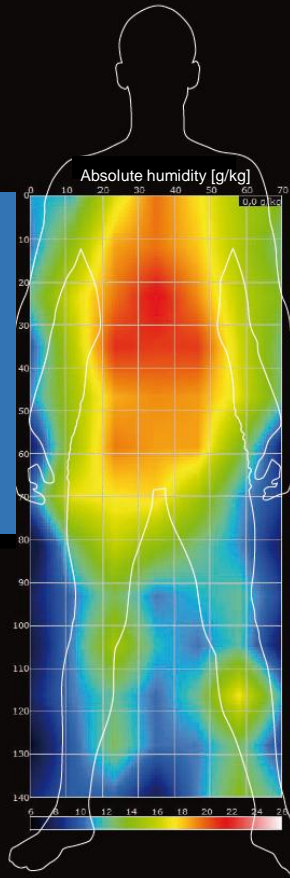


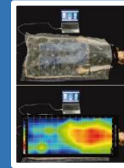
Comfort through climate



INSIDE TESTING



INSIDE DATA



INSIDE SIMULATION



INSIDE CLIMATE tests and qualifies the heat and humidity management within ready-made products.

**When skin meets fabric –
how thermoregulation impacts comfort**

INSIDE COMFORT – Climate is key



Climate is an interaction between heat and humidity.

If you were asked to check mark a multiple choice.

How would your preferred climate be?

The answers are always the same.

- | | | | |
|----------------|----------------------------------|----------------|----------------------------------|
| warm and dry | <input checked="" type="radio"/> | cool and dry | <input checked="" type="radio"/> |
| warm and humid | <input type="radio"/> | cool and humid | <input type="radio"/> |

INSIDE COMFORT – Climate is key



Climate is an interaction between heat and humidity.

If you were asked to check mark a multiple choice.

How would your preferred climate be?

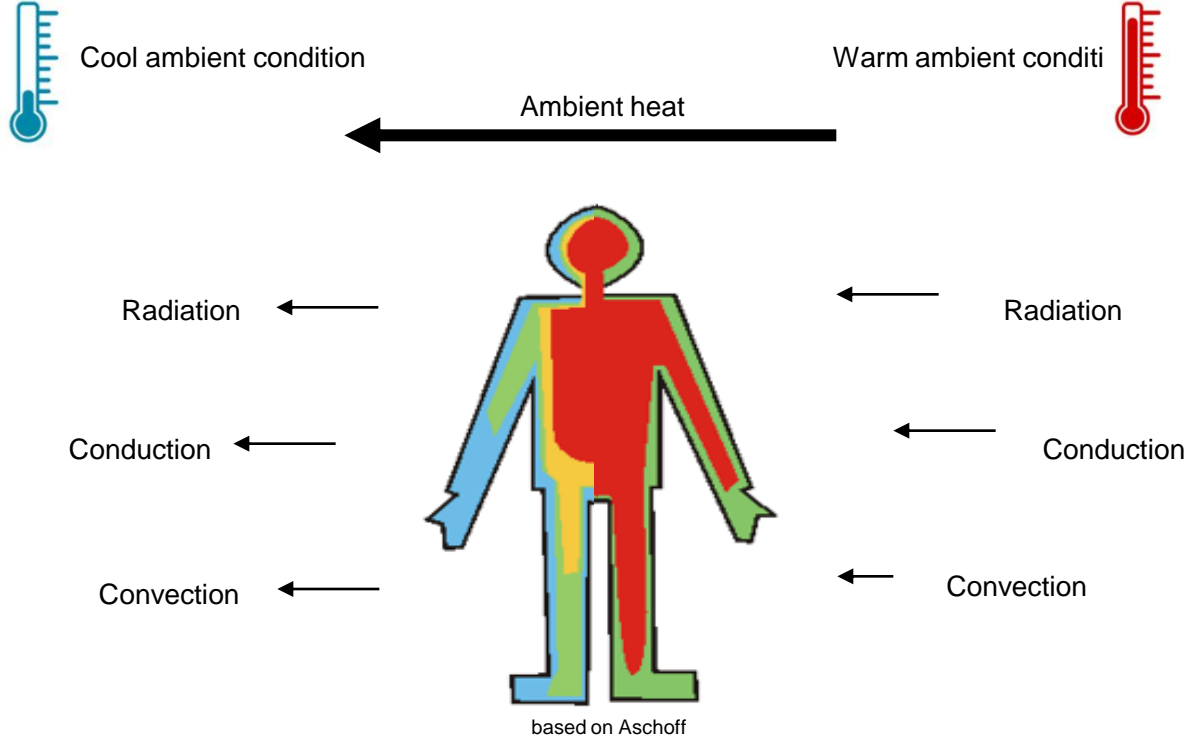
The answers are always the same.

warm and dry	<input checked="" type="radio"/>	cool and dry	<input checked="" type="radio"/>
warm and humid	<input type="radio"/>	cool and humid	<input type="radio"/>

Some humans prefer it “**warm**” some “**cool**” – the heat sensation is subjective.

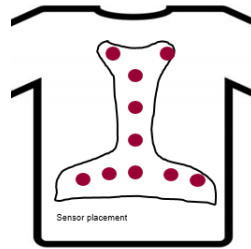
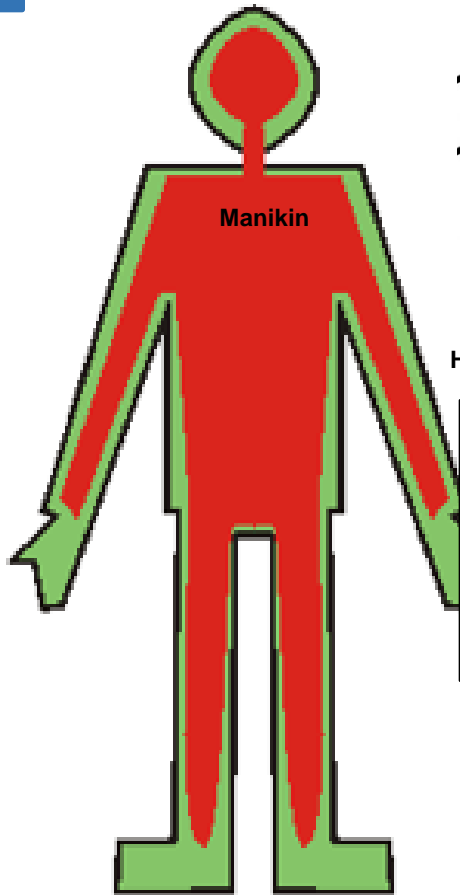
The common denominator is – **we all prefer it dry.**

INSIDE COMFORT – “free” cooling and heating

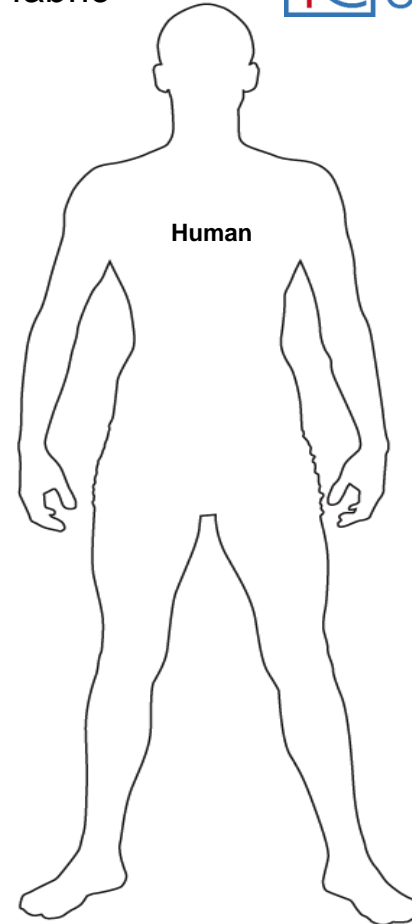
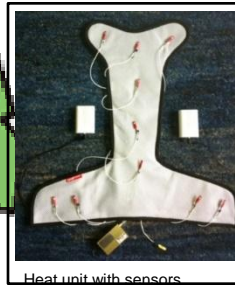


Heat moving methods – free to the body – subject to ambient conditions
heat flow follows physics

INSIDE TESTING – when skin meets fabric



Heated outdoor apparel

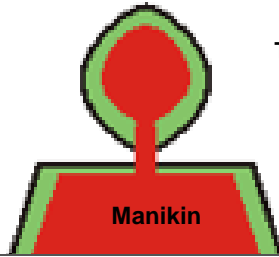


Source: INSIDE CLIMATE

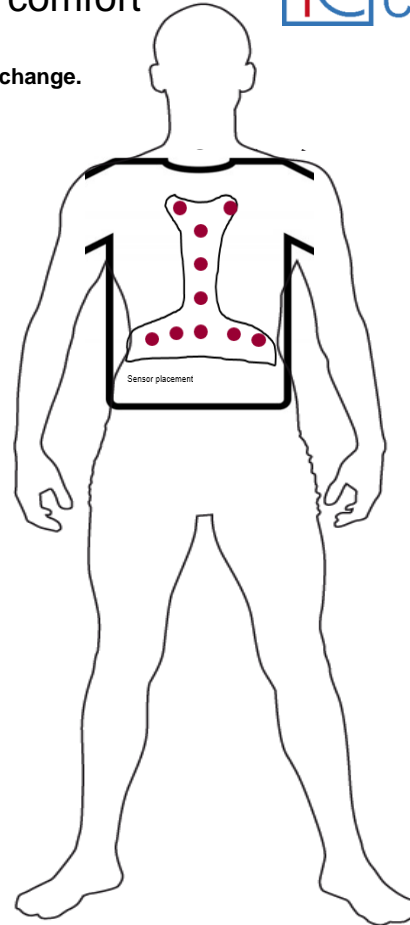
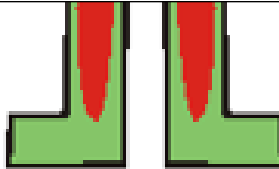
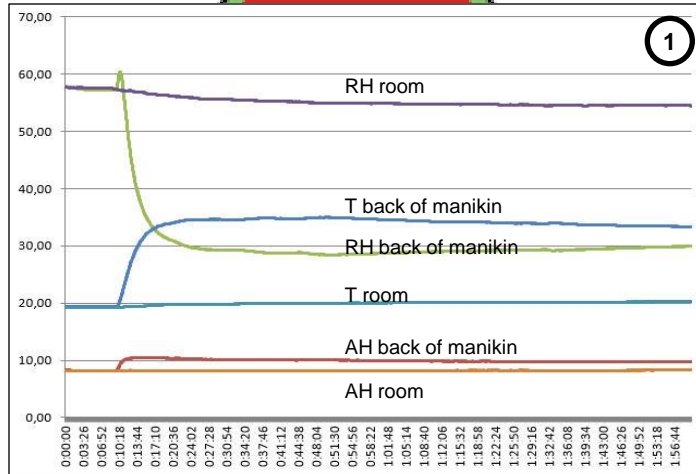


INSIDE TESTING – Humidity defines comfort

The manikin accepts the thermal change.



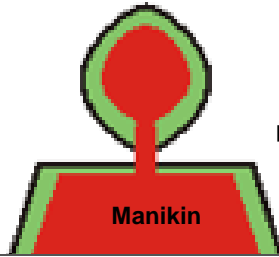
Manikin



Source: INSIDE CLIMATE



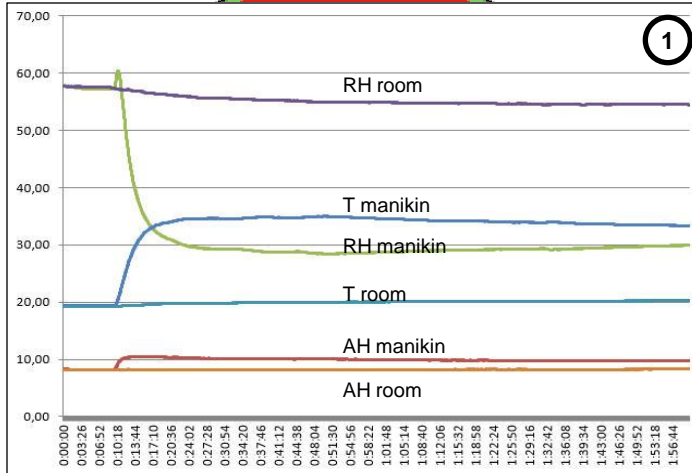
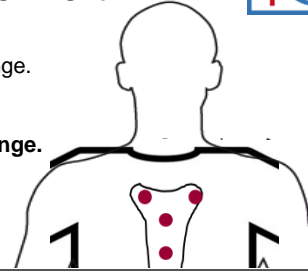
INSIDE TESTING – Humidity defines comfort



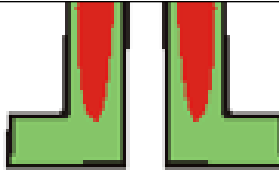
Manikin

The manikin accepts the thermal change.

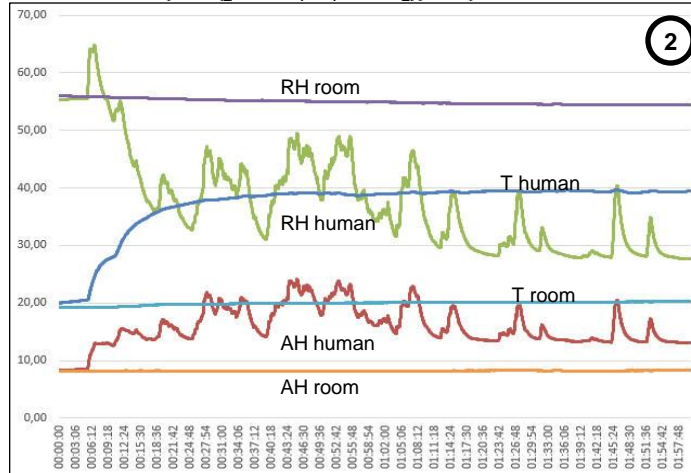
The human in contrast activates perspiration against the thermal change.



1



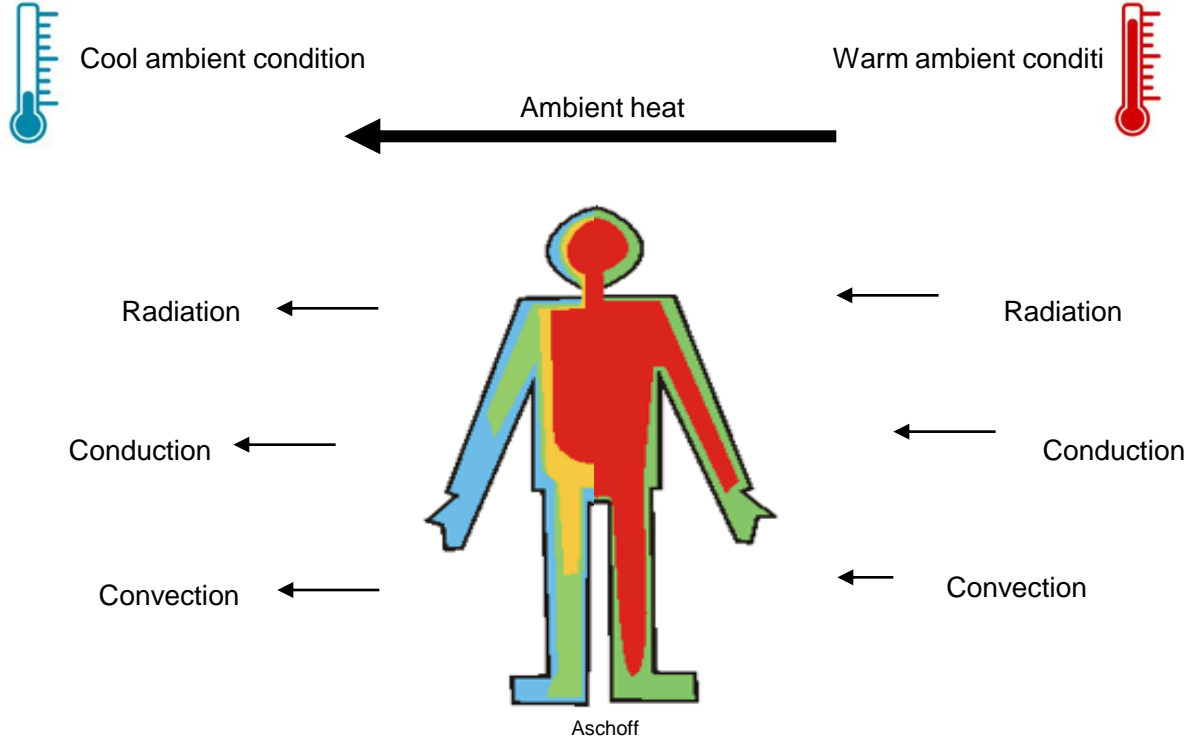
Optimal humidity management is the key to climate comfort.



2

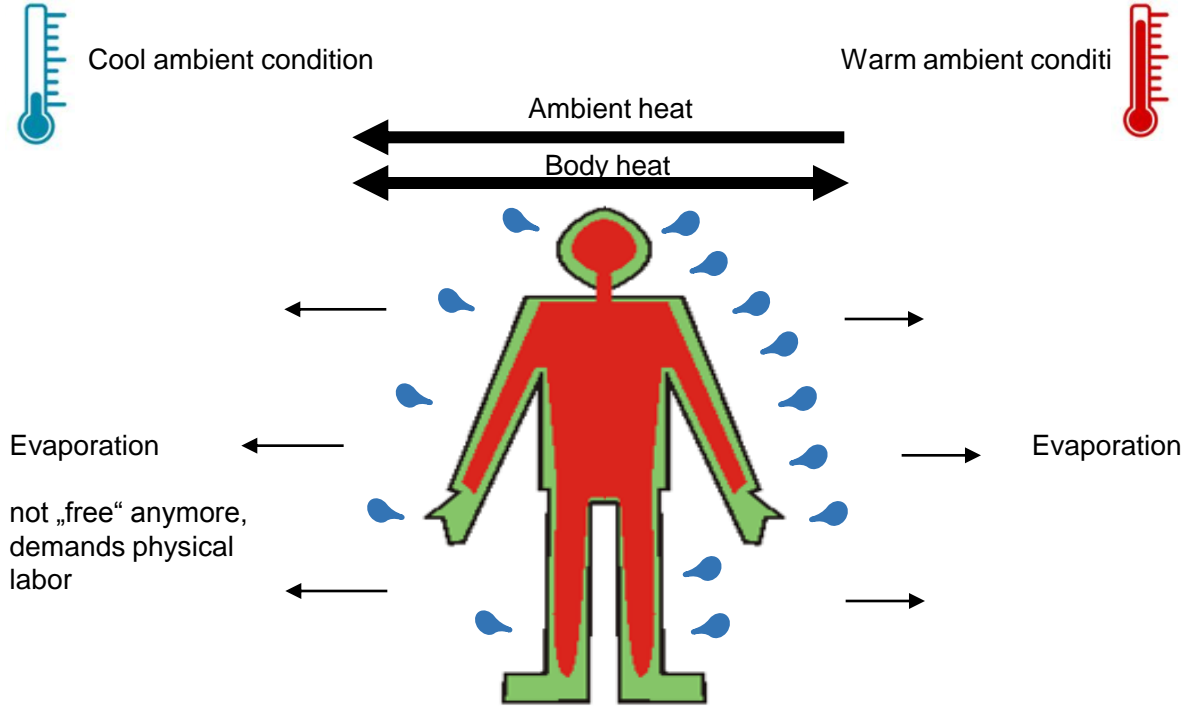


INSIDE COMFORT – “free” thermoregulation



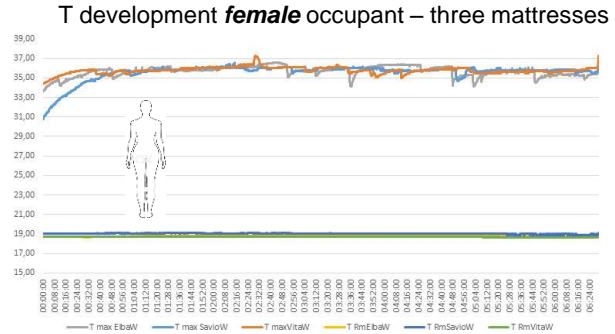
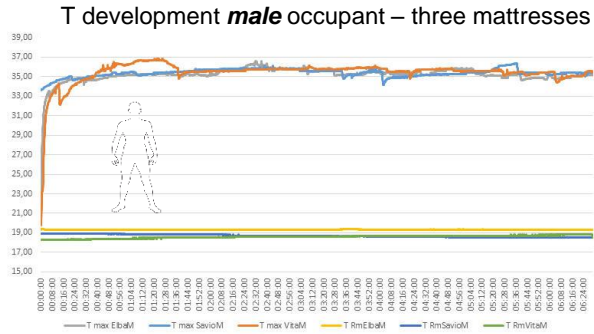
Heat moving methods – free to the body – subject to ambient conditions
heat flow follows physics

INSIDE COMFORT – “active” cooling



Sweating is the last body own methodology to cool the body.
In terms of microclimate it is the humidity which separates comfort from discomfort

INSIDE TESTING – human data - mattresses

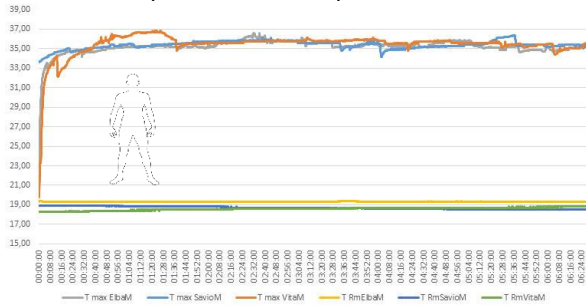


Both develop almost equal T on all products

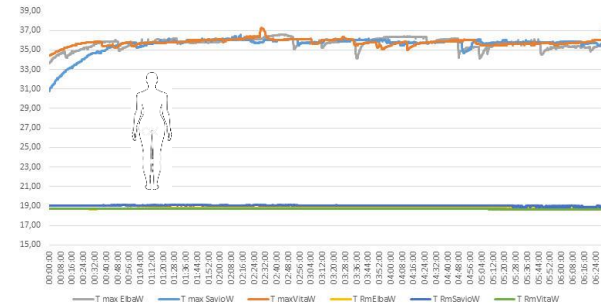
INSIDE TESTING – human data - mattresses



T development **male** occupant – three mattresses

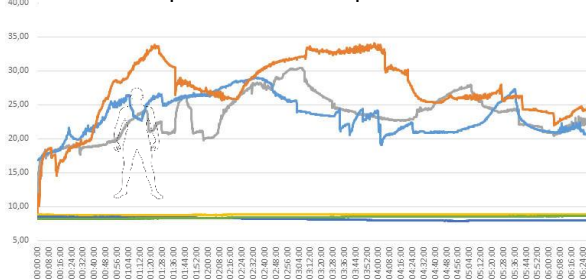


T development **female** occupant – three mattresses

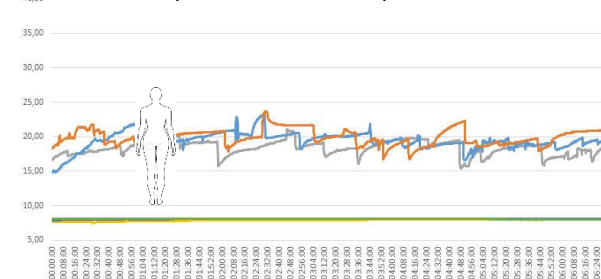


Both develop almost equal T on all products

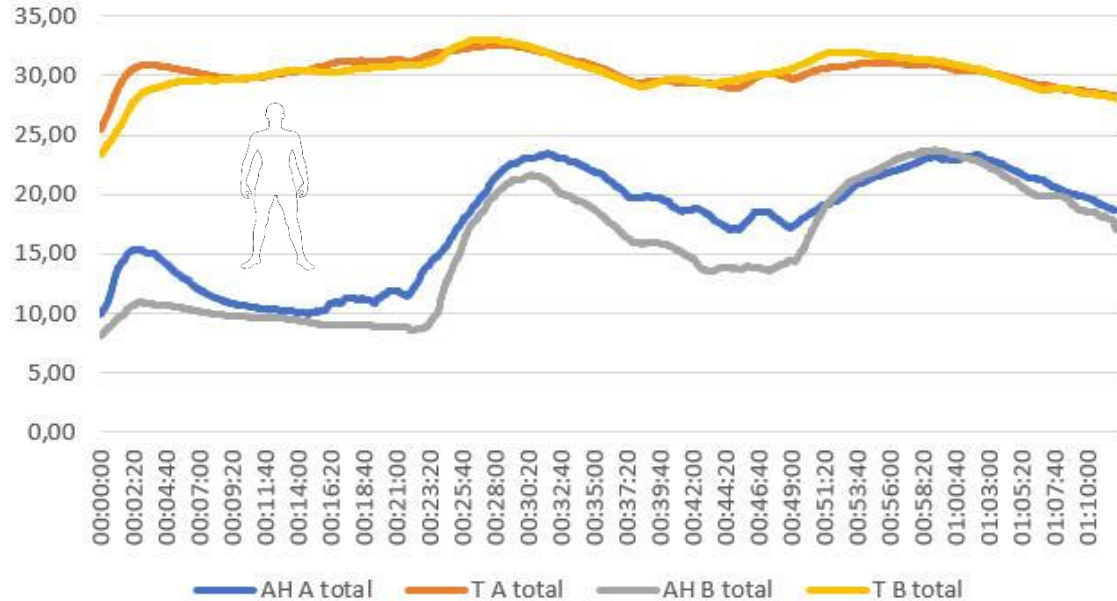
AH development **male** occupant – three mattresses



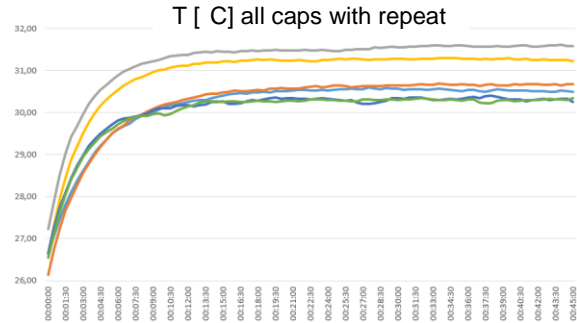
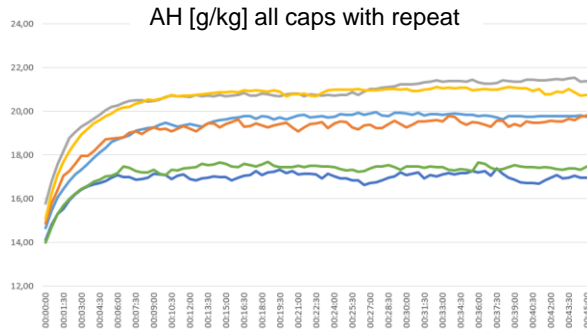
AH development **female** occupant – three mattresses



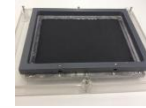
One occupant – two sets shirt and quilted jacket – one with thermoregulating treatment



SWEATOR-Head – three bump caps in comparison

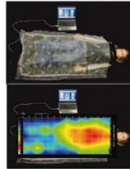


INSIDE SIMULATION



INSIDE DATA

SleepView



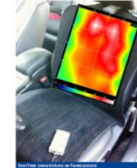
HeadView



BodyView



SeatView



INSIDE TESTING

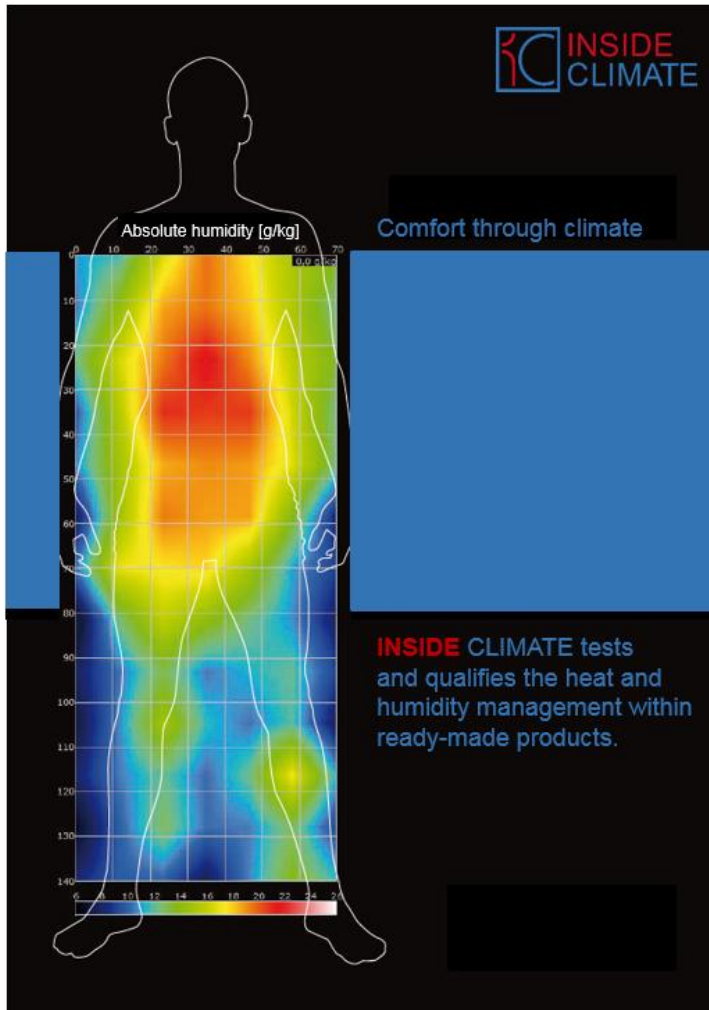


INSIDE DATA – more Q&A? We d be pleased!



You find us at: German Pavilion – booth 2053





INSIDE CLIMATE GmbH

Christoph Russ

Managing Director

Hilpoltsteinerstr. 1 b

D-83607 Holzkirchen

Germany

T +49 8024 6080572

F +49 8024 6080573

info@inside-climate.com

www.inside-climate.com