

Thermal Manikin System: AURETTA KOMFORT

Maximum feel-good climate can be measured

Our innovative **THERMAL COMFORT** method is trailblazing for the future development of custom-fit HVAC solutions.

Instead of cost-intensive special designs we rely on our state-of-the-art simulation method to exactly calculate the feel-good climate in the operator's cab – thanks to a special measuring manikin - **AURETTA KOMFORT** with hundreds of sensors.

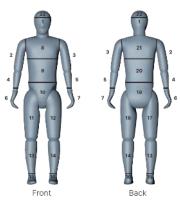
THERMAL MANIKIN SYSTEM

State-of-the-art manikin system used for assessment of the thermal comfort of a human in all realistic environments

Overview:

- Natural body-shape, based on official population statistics
- 23 body zones with independent measurement of skin temperature and heat flux
- Unique wire system that eliminates control delay and ensures a 100% stable set point
- Maximum 'skin'-like sensitivity with heating wire and sensing only 0,2 mm under the paint
- Heating range: As a human, 15 to 45 degrees C
- Operated through an intuitive PC SW with a graphical user interface and 4 control modes
- Is certified in accordance with DIN EN ISO 7730 & DIN EN ISO 14505:2

Typical split of 23 body zones (can be re-configured depending on needs):



Physical specifications:

- · Size 175 cm / Weight 22 kg
- · Robust light shell in glass-fiber
- Polyoxymethylene joints in neck, shoulders, elbows, hips and knees
- The manikin can be separated in the waist without use of tools for easy transport



THERMAL COMFORT

DEVELOPMENT PROCESS

A vision becomes reality:

Aim:

Creating a feel-good climate with minimum energy consumption

Method:

Virtual simulation systems for each individual development step

Result:

HVAC-solutions that are perfect for the individual application



Your benefit:

- Deriving suitable control strategies to improve THERMAL COMFORT:
 - Adjustment of air distribution within the cabin to increase comfort
 - Optimization of cabin air conditioning





If we have aroused your interest and would you like to find out more, please don't hesitate to contact:

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