

MOISTURE MANAGEMENT TESTER



Physical specifications

Dimensions

300 mm x 420 mm x 545 mm

Weight

27 kg

Standards

AATCC 195 - SN /T 1689.1 - GB 21655.2

The 2nd Generation MMT makes moisture management testing even easier. Increased access area makes it possible to test larger samples while allowing easier cleaning of the sensors. The new center positioning indicator improves the precision when testing porous samples. A more robust and attractive metal housing and motorized sensor movement make the instrument an instant feature in any laboratory. The multi-language software allows more technicians to use the MMT in their native language.

Fabric liquid moisture transport properties in multi-dimensions, called moisture management properties, influence the human perception of comfort sensations. To improve the comfort of today's clothing, especially in sportswear, it is important to know the liquid moisture management properties of the fabric. Although some test methods exist for evaluating absorbency, wicking and strike-through time, they are unable to measure the behavior of liquid transfer in clothing materials dynamically in three dimensions.

The MMT was developed to measure dynamic liquid transport properties of knit and woven fabrics in three dimensions...

1. Absorption Rate - Moisture absorbing time of the fabric's inner and outer surfaces.
2. One-way Transportation Capability - One-way transfer from fabric's inner surface to outer surface.
3. Spreading Speed - Liquid moisture spreading on fabric's inner and outer surfaces.

MMT consists of upper and lower concentric moisture sensors. The specimen is held flat under fixed pressure between the sensors while standard test solution is introduced on to the top surface of the fabric. Electrical resistance changes between the upper and lower sensors are then recorded dynamically on computer.

MMT permits the measurement of the following indexes:

- Wetting Time Top/Bottom (WTT/WTB)
- Absorption Rate Top/Bottom (TAR/BAR)
- Maximum Wetted Radius Top/Bottom (MWRT/MWRB)
- Spreading Speed Top/Bottom (TSS/BSS)
- Accumulative One-Way Transport Capacity (R)
- Overall Moisture Management Capacity (OMMC)