



 EPLEXOR® DMA / DMTS

 GABOMETER® Flexometer / Fatigue Tester

 QUALIMETER® Quality Control

 GABOTACK® Quality Control

 HYGROMATOR® Humidity Generator

 Temperature Chamber

 Accessories

 AUTOSAMPLER ASSS

 CONTRACT TESTING SERVICE

HYGROMATOR® HUMIDITY GENERATOR

**Humidity Generator HYGROMATOR® -
Now also for the connection to the
Dynamic Mechanical Thermal
Spectrometer (DMTS series)**

DMTS investigations under real environmental conditions

The influence of humidity on production processes and material properties can change the product quality lastingly. Optimised humidity and temperature conditions are of great importance for the food, paper, lacquer or plastics industry.



EPLEXOR® 100 N with HYGROMATOR®

For example the production and storage of pasta under optimal humidity/temperature conditions are mentioned. The variation of humidity and temperature influence the mechanic characteristics like material stiffness (modulus of elasticity – Young's modulus E' , E'' , E^*) and the visco-elastic damping $\tan \delta$ substantially.

How does a rough sea climate (with salts enriched sea air) affect the mechanical characteristics of lacquers (painting on ships)?

The influence of these parameters (humidity/temperature) can be simulated with a combination of **EPLEXOR®** and **HYGROMATOR®**.

Existing DMA systems of NETZSCH GABO Instruments GmbH can be retrofitted with the humidity generator **HYGROMATOR®**. An insertion is necessary for the temperature chamber in order to obtain a homogeneous humidity climate within the temperature chamber.

Figure 2 shows a typical humidity and temperature profile. At constant temperatures humidity ramps with positive or negative slopes can be selected. Combinations of temperature gradients and humidity ramps complete the application field of this system. Tests at constant temperature levels and constant humidity can be carried out.

HYGROMATOR®

Humidity temperature range	5% rH up to 95% rH Depends on humidity and temperature level Variation of the humidity in a temperature range between >0 °C und <100 °C
Humidity rate	1 % rH/Min to 20 % rH/Min
Humidity sensor	Capacitive
Electrical supply	230V AC, 50/60 Hz
Dimensions in mm (Width x Height x Depth)	330 x 330 x 300

How to find us

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