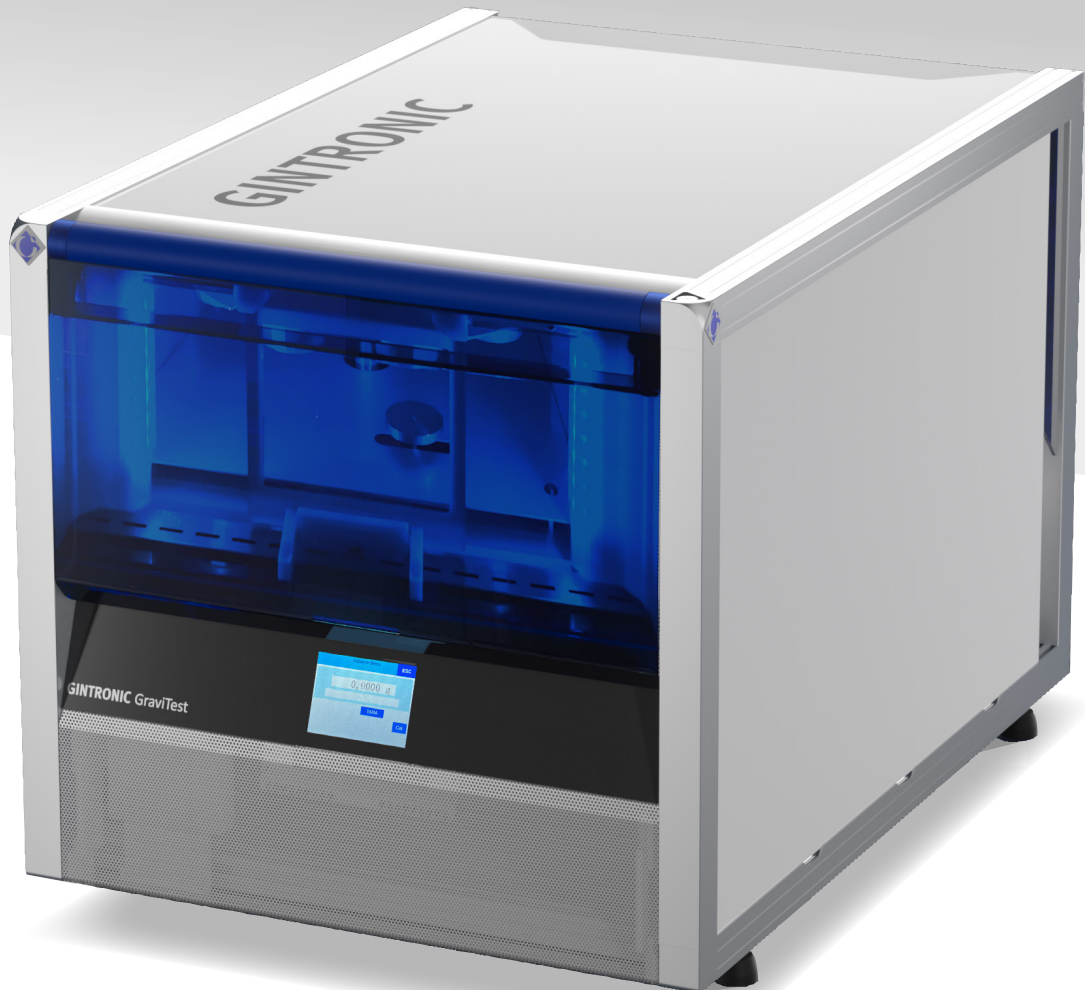


the next level

 MADE IN SWITZERLAND



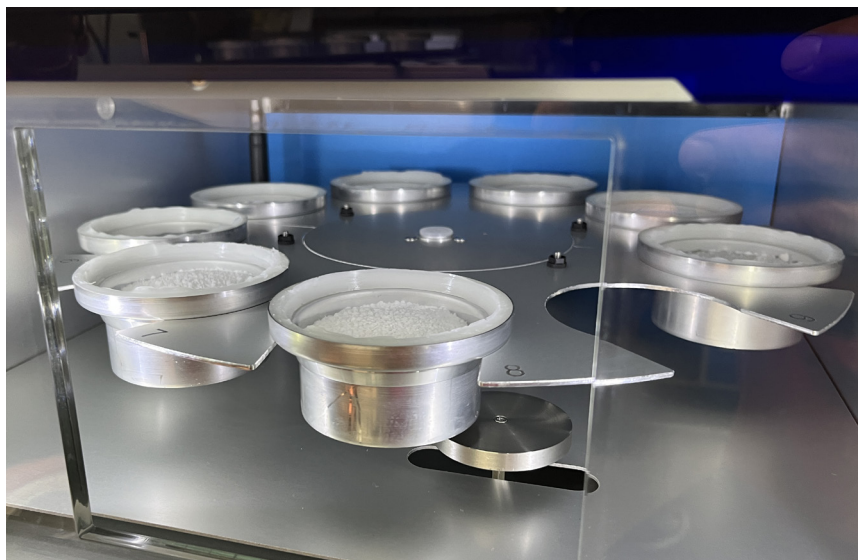
GINTRONIC GraviTest

With GINTRONIC GraviTest 9000 - Series, GINTRONIC has taken the gravimetric determination of the water vapour transmission rate of polymeric films and other sheet materials to the next level.

GraviTest offers simple specimen preparation, user-friendly GraviCommander PC software and the complete automation of the measuring process.

This, in combination with the accurate and robust balance, allows for high precision gravimetric measurement of water vapour permeability, with a minimum of expenditure of time on the user's side, the gravimetric method becomes mere child's play.

Through the Windows® based PC software, all measurement parameters of the samples, such as temperature, relative humidity of the air, air speed as well as the weighing interval, are predefined and then adjusted automatically by the instrument after the start up of the measuring process. As soon as the measuring conditions correspond to the specified tolerances the specimen holders can be inserted into GraviTest and the measuring process can be started.



Re-sealable specimen holders with an integrated seal and wax sealing are available and can be used without any modifications on the instrument. Assembling the samples into the 6 specimen holders takes a matter of minutes.

The flexibility of the system has nearly no boundaries. Wet cup, dry cup or multilayer processes can be carried out trouble-free, at dif-

ferent climate conditions and air speeds, without any modifications.

Features

High capacity balances

With a maximum load of 250g @ 0,01mg resolution and 320g or 420g @ 0,1mg resolution GINTRONIC uses high capacity balances. This means for the user no surprises due to overload of the balance.

User friendly PC software

The results of the measurement and the corresponding atmospheric pressure will be represented in a chart and stored by the PC software. Thus, each measurement re-

sult, together with the parameters of each individual sample are always retrievable and comprehensible. The following errors can thereby be excluded: miss-measurement caused by erroneous reading off of the scales, incorrect record of the measurement results, and missing of the weighing interval. The software is able to export all data easily to Excel®. The software comes complete with multiple Excel® modules.

Standards

EN ISO 12572
EN 1931
EN ISO 12086
ISO 2528
DIN 53122 Part 1
ASTM E96
ASTM D7709
ASTM 1653
JIS L1099 A1+A2
BS 3424-34
BS3177
GB 1037
GB/T 12704
JIS Z 0208

Applications

Polymeric film
Sheet material
House wrap
Building products
Nonwoven
Textiles
Hygienic
Blister packs
Inverted cup (ASTM E96BW)
and many others

These modules are used for various standards when the results are reported in different values such as perms, permeability, permeability coefficient or a SD-value.

Wide humidity range

Due to the wide humidity range also the determination of the SD-value curve of SD-value-variable membranes at multiple points is easily possible.

Heated housing

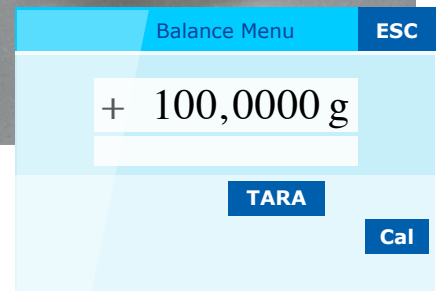
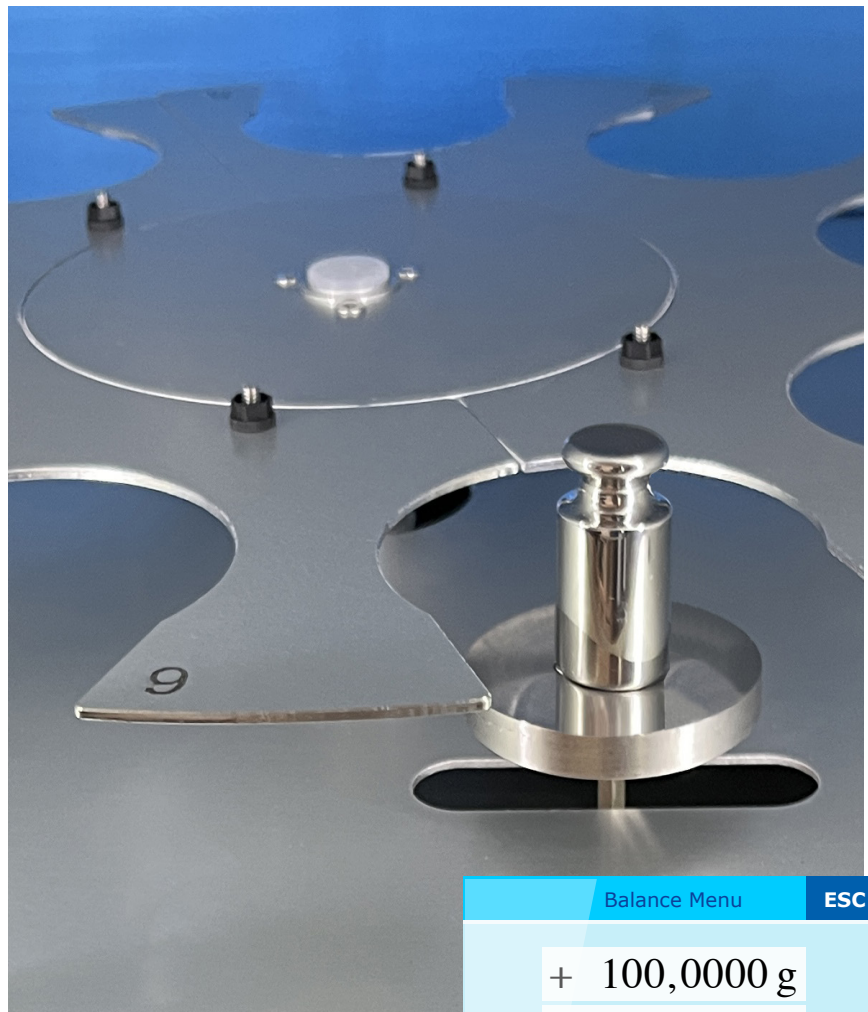
The exterior of the internal chamber of GraviTest is heated. This prevents condensation at high temperature and humidity and protects the instrument, also at in case of short power failures. This technique was introduced by GINTRONIC already in 2012.

Inverted cup (optional)

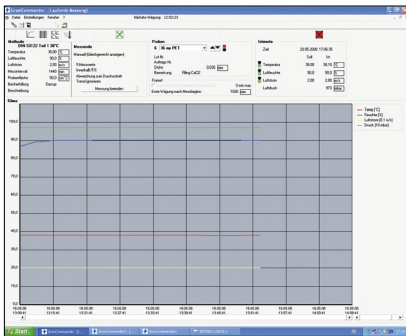
GINTRONIC offers 30 and 50 cm² inverted cups for ASTM E96BW.

Wax sealing (optional)

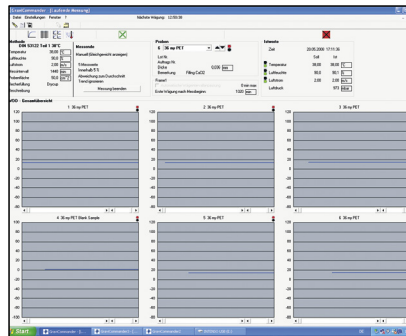
Several international standards (e.g. EN 1931 and ASTM E96) specify that the sealing of the materials to the measuring cups has to be done by wax. Also there are several materials which can only be tightened by wax sealing GINTRONIC has for this an optional user friendly wax sealing system. The system can be extended up to 50 mm sample thickness, by using the GINTRONIC distance rings for wax cups.



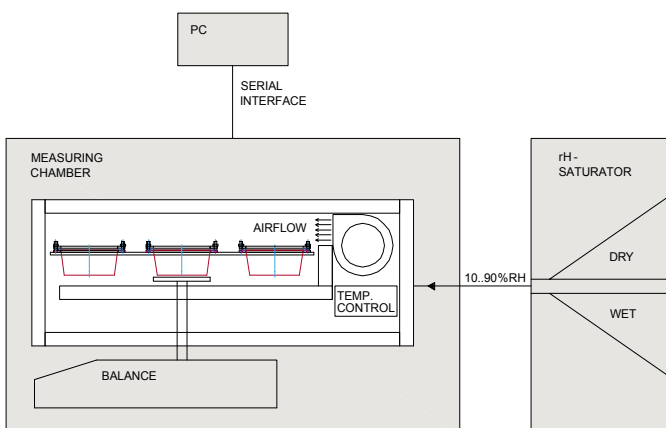
Fast and userfriendly balance check



Climatic data



Running measurement



50 mm (optional)

The 50 mm version of GINTRONIC GraviTest can test samples with a thickness up to 50 mm. The use of a special distance sensor makes sure that the samples are exposed to the correct air velocity depending on their thickness. A maximum flexible wax kit up to 50 mm with GINTRONIC distance rings is available, which makes also the preparation of thick samples user friendly and practicable.

Warranty

Full 100% parts and workmanship warranty for 24 months (Does not include travel or shipping costs).

GraviTest 9000 Series brings the gravimetric measurement of WVTR to the next level, by combining the proven features of the well established 6300 Series with new next level features:

Changeable tray

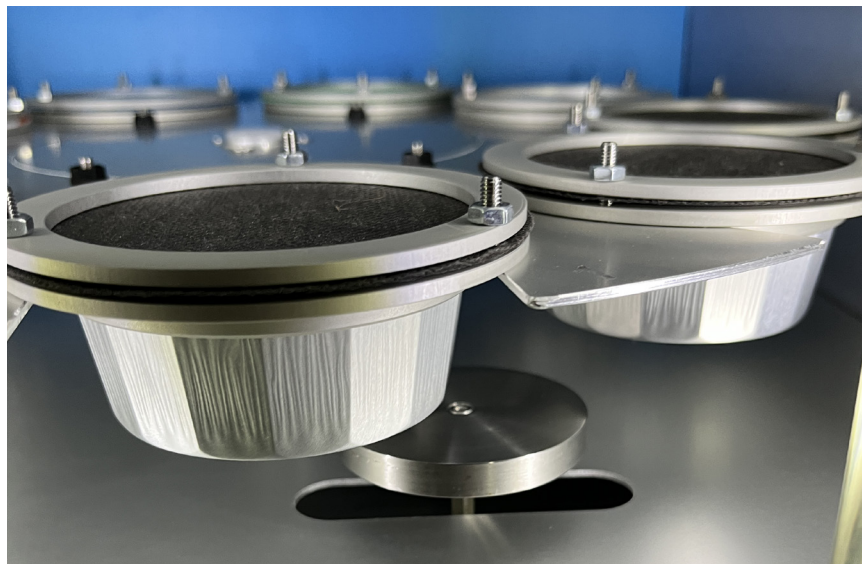
All GINTRONIC GraviTest are equipped with our changeable tray technology. This allows the adaption of the instrument to various sample holders, like sorption, 28,3 and 30 cm² cups and blister holders (ASTM 7709-12 / USP 671). For this GINTRONIC offers a wide range of kits, to adapt the instrument perfectly to the needs of the customer and to the different standards. Customised kits possible.

MultiCommander (optional)

With the optional GINTRONIC MultiCommander technology it is possible to define up to 4 sample groups which can be measured independently in terms of time. This reduces no-load running to a minimum and offers maximum flexibility and maximum sample throughput to the customer.

Simline technology (optional)

With a width of 52 cm the instrument design was kept intentionally compact providing a capacity of up to 12 sample places 50 cm² and up to 15 sample places 28,3/30 cm² using the GINTRONIC Slimline technology. This saves valuable space in the laboratory.



Blister Test (optional)

GINTRONIC GraviTest fully complies with ASTM D7709-12 and USP 671. GINTRONIC provides a set of special sample holders for blisters and small containers. Up to 13 sample holders are possible.



Wax Kit Inox (optional)

With the stainless steel cup kit you can measure the WVTR using corrosive salt solutions. This is very important for the determination of special points of the SD-value curve of SD-value-variable membranes.