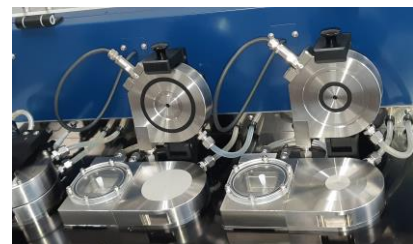


# Water Vapour Transmission Rate Tester

No.572



Model CT3W



Measurement cell (Ø70mm, Ø30mm)

The Water Vapour Transmission Rate Tester measures the water vapour permeability or water vapour permeability coefficient of packaging materials such as plastic film.

## Features

- The measurement method of this device is differential pressure type.
- Automatic water vapor transmission measurement is possible.
- Two specimen sizes are available.
- Use of high-precision absolute vacuum pressure gauge.
- Uniform temperature distribution is achieved by efficiently circulating temperature controlled water.
- Valve opening and closing can be controlled by software.
- Capable of adjusting the flow rate and pressure of humidified air to maintain a constant supply of water vapour.
- Capable of notifying by e-mail of test completion and error occurrence.
- Full range of functions to manage test conditions and test data.
- Software can control the equipment and analyze the acquired test data.

## Specifications

	CT1W	CT3W
<b>Number of specimen</b>	1	3
<b>Measurement range</b>	20 to 85°C, 80 to 90% RH (Depends on the combination)	
<b>Temperature control</b>	Constant temperature water circulation (By chiller)	
<b>Specimen dimensions</b>	<ul style="list-style-type: none"> <li>● 50 x 50mm (Meas. section Ø30mm, through area 707mm<sup>2</sup>)</li> <li>● 90 x 90mm (Meas. section Ø70mm, through area 3848mm<sup>2</sup>)</li> </ul>	
<b>Water vapour transmission measurement range</b>	<ul style="list-style-type: none"> <li>● Type A: 0.001 to 1.000 [g/(m<sup>2</sup> · 24h)]</li> <li>● Type B: 0.01 to 100.00 [g/(m<sup>2</sup> · 24h)]</li> </ul> <i>Note: Vacuum pressure gauge: Accuracy 0.25% of reading)</i>	
<b>Supply gas</b>	0.5MPa (Gas cylinder recommended)	
<b>Medium for water vapour</b>	Water (Class A1 or better specified in JIS K 0557)	
<b>Measurement item</b>	<ul style="list-style-type: none"> <li>● Water vapour transmission rate [g/(m<sup>2</sup> · 24h)]</li> <li>● Water vapour permeability coefficient [g · mm/(m<sup>2</sup> · 24h)]</li> </ul>	
<b>Data processing &amp; control</b>	PC (Windows)	
<b>Option</b>	<div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; align-items: center;"> <div style="flex: 1; border-bottom-left: 1px solid black; border-bottom-right: 1px solid black;"></div> <div style="flex: 1; padding-left: 10px;">                     Additional measurement module, model MCT1W (1 test station)                      Max. 2 additional units possible                 </div> </div> </div>	
<b>Power supply</b>	<ul style="list-style-type: none"> <li>● Main unit: Single-phase, AC100V, 50/60Hz, 5A</li> <li>● PC: Single-phase, AC100V, 50/60Hz, 3A</li> <li>● Vacuum pump: Single-phase, AC100V, 50/60Hz, 6A</li> <li>● Chiller: Single-phase, AC100V, 50/60Hz, 15A</li> </ul>	
<b>Compressed air</b>	0.4MPa	
<b>Dimensions</b>	W550 x D560 x H470mm	W800 x D560 x H470mm
<b>Net weight</b>	Approx. 50kg	Approx. 70kg

## Related standards

ISO 15106-5	Plastics — Film and sheeting — Determination of water vapour transmission rate — Part 5: Pressure sensor method
JIS K 7129-5	プラスチック—フィルム及びシート—水蒸気透過度の求め方—第5部：圧力センサ法

Specifications are subject to change without notice.



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