



Simplified Water Intrusion Test Kit

ITD-WM Type

A simplify test kit for measuring and judging the integrity of hydrophobic membrane filters.

Features

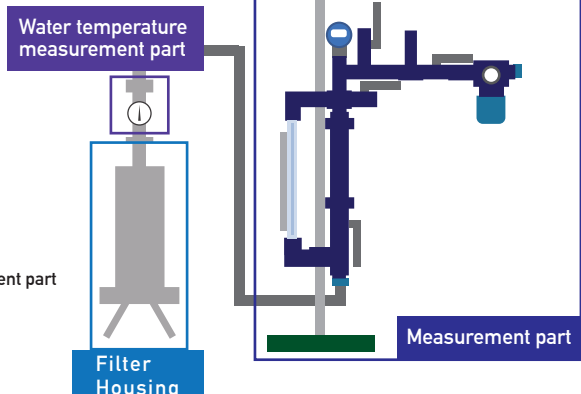
- Just need is water and compressed air. No need for hydrophilization with alcohol, etc.
- Simple structure
- Can be freely maneuvered
- Power source not required *Some parts use batteries.
- Maintenance-free

Ordering Information

ITD-WM00-

A 1

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- A1 = Full set for 250mm
 - A2 = Full set for 500mm
 - B = Measurement part
 - C1 = Measurement part + 250mm Housing
 - C2 = Measurement part + 500mm Housing
 - D = Measurement part + Water temperature measurement part



What is a water intrusion test?

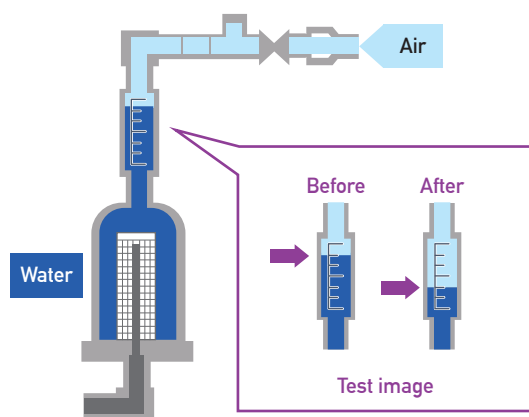
It is a method to verify the integrity of hydrophobic membrane filters.

Fill the primary side of the filter with water and apply pressure with compressed air (or nitrogen) from the up-stream side.

The basic principle is to measure the flow rate of water permeating the filter by pressure on the down-stream side. However, since the amount is generally very small, an alternative method is to read the amount of change in the water surface level on the primary side to determine pass/fail.

Similarly, compared to the diffusion test, which is a common integrity test method, when testing a hydrophobic membrane filter, it is not necessary to hydrophilize the filter with alcohol, etc., which was necessary. In addition, it eliminates the need to dry filters after testing.

This simplifies test preparation, shortens the overall test time, and improves efficiency.



Specifications

Product Type	ITD-WM00-A1	ITD-WM00-A2
Test Method	Water intrusion	
Dimension	W370 × L170 × H510 mm	
Measurement part	W210 × L170 × H550 mm	
Housing	W210 × L170 × H800 mm	
Weight	5.5kg	
Measurement part	4.5kg	
Housing	6.0kg	
Design pressure	0.3MPa (43.5psi)	
Design temperature	40°C (104°F)	
Liquid used	Refined water	
Gas used	Compressed air	
Test time	Stabilization: 20min, Measurement: 1min	
Filter	250L-CTL-002	500L-CTL-002
Standard value	1.8ml/min (263kPa)	3.6ml/min (263kPa)

*The contents of the catalog are subject to change without notice.

*The performance data listed in the catalog are Typical values obtained under specific conditions based on our tests.

*The external view in the figure may differ from the actual product.

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Manufacturing is based on our Quality Management Systems that meet ISO9001 standards.

Scope

Design, Development, manufacture, and sales of filter cartridges, housings and filtration equipment.



5th Issue

ITD_WM_220301E