Professional

This instrument is based on the combination of differential pressure method and fluid level analysis technique. It is the only instrument in the market so far that provides the quantitative analysis of seal performance and residual oxygen for various flexible vacuum packages.

- RGT-01 is globally first instrument used to measure the volume of residual oxygen within vacuum packages
- Top quality parts and components made by world famous brands are used to ensure reliable overall product performance
- All test parameters can be set flexibly for convenient operation

High-end

RGT-01 system utilizes Labthink's latest embedded computer control system that provides a better performance than traditional single chip system.

- Embedded computer control system provides safer and more reliable data management as well as test operation
- The system can be easily operated by a standard monitor, a keyboard and a mouse; without requiring a PC.
- The system is equipped with four USB ports and dual Internet ports for convenient input, output, and data transfer

Intelligent

The instrument is equipped with Labthink's latest intelligent operating software, with user-friendly operating interface and intelligent data management. It also supports LystemTM Lab Data Sharing System, which ensures uniform management of test results and test reports.

- Intelligent reminding of sensor calibration
- Embedded help document for user viewing at any time
- Multi-level account control for better data management and protection
- The system utilizes embedded data saving technology to save detailed information and provide convenient and various searching and viewing functions.
- Calibration data recovery function ensures a safety data operation environment
- Supports LystemTM Lab Data Sharing System for uniform and systematic data management

Test Principle

The vacuum test cell is composed of an outer chamber and an inner chamber. Before the test, the inner chamber, where the test specimen is placed, is completely filled with water and sealed with the sealing plate. The outer chamber, which is also the measuring chamber, is slowly injected with water to a designated level and sealed. Both chambers are thereafter evacuated until the test specimen expands. The residual oxygen within the specimen



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is obtained by fluid level analysis technique associated with corresponding calculations.

Applications

This instrument is applicable to the determination of seal performance and the quantity of residual oxygen in:

Basic Applications	Vacuum Packages for Food	Including vacuum bags for food
	Vacuum Packages for Drugs	Including vacuum bags for drugs
	Vacuum Packages for Cosmetics	Including vacuum bags for cosmetics
Extended Applications	Non-Vacuum Packages for Food	Including non-vacuum bags for food
	Non-Vacuum Packages for Drugs	Including non-vacuum bags for drugs
	Non-Vacuum Packages for	Including non-vacuum bags for cosmetics
	Cosmetics	

Technical Specifications

Specifications	Package Test	
	0-15 mL (Standard)	
Test Range	Note: As a default setting, residual oxygen volume can be	
(Residual Gas)	obtained by multiplying this value by 20.9%.	
	Customization is available for other test range.	
	±0.1 mL (Gas volume 0-5 mL)	
(Desidual Orwann)	± 0.3 mL (Gas volume 5-10 mL)	
(Kesiduai Oxygen)	±0.5 mL (Gas volume 10-15 mL)	
Vacuum Degree	0~ -90 kPa	
Accuracy	0.25 kPa	
Port Size	$\Phi 6 \text{ mm}$	
Instrument	580 mm (L) x 320 mm (W) x 540 mm (H)	
Dimensions		
Power	220VAC 50Hz / 120VAC 60Hz	
Net Weight	61 kg	

Configurations

Standard	Instrument, Professional Software, Standard LCD Monitor, Keyboard, Mouse and Vacuum
Configurations	Pump
Optional Parts	Lystem TM Lab Data Sharing System and Printer (compatible with PCL3)

Please Note: Labthink is always dedicated to the innovation and improvement of product performance and function. Therefore, technical specifications are subject to change without further notice. Please visit our website at www.labthink.com for the latest updates. Labthink reserves the rights of final interpretation and revision.

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