ZHOLION 众林

RC-V12 VACUUM DECAY LEAK DETECTOR

AUTOMATIC CCI TESTING SYSTEM



COMPLIES WITH THE REVIEW STANDARDS OF INTERNATIONAL REGULATORY AUTHORITIES

EQUIPMENT INTRODUCTION

The RC-V12 is a fully automatic, non-destructive leak detection system for the laboratory, utilizing vacuum decay technology. Integrating an advanced vacuum decay module with a collaborative robotic arm for automatic sample handling, the system performs complete testing cycles—including precise placement and return of samples to their original positions. It minimizes operator-induced variability and maintains the consistency of the detection data. The system represents the ideal solution for laboratory automation, significantly enhancing throughput and operational efficiency.

APPLICATION OBJECTS

- Batch detection for laboratory
- All-in detection for small-batch production

EQUIPMENT FEATURES

- Superior detection sensitivity(1-2μm), with excellent data repeatability complies with FDA 21 CFR Part 11
- Modular design enables simple and rapid replacement of chambers and sample trays
- Sample trays accommodate a range of vial, cartridge, and prefilled syringe formats within specified size ranges
- Accurately identifies leaking samples, facilitating root cause analysis and production process optimization
- Continue to operate or stop to alarm is optional when leakage is detected, flexibly adapting to different quality management requirements
- Support 3 kinds of speed switching: low-speed, medium-speed and high-speed

TECHNICAL SPECIFICATIONS

Operation	Industrial PC with intuitive interface
Test Station	One servo-controlled station (customizable per product)
Sample Tray	According to the container type and volume
Sample Handling	Stable robotic pick-and-place
Detection Method	Grid-positioning sequential testing with automatic data logging
Dimension	1200 × 700 × 1500 mm (LxWxH)
Power Supply	220V，50/60Hz

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