

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 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(1-2 μ m)
- Modular design enables quick tooling changes; interchangeable trays accommodate 100-150 samples (capacity varies by product configuration)
- Built-in safety protocols automatically halt operations and trigger alarms once detecting hazards or test failures
- After our risk assessment, you can choose if it requires safety guarding, allowing seamless human-robot interaction
- Simplified programming for new products ensures rapid recipe adaptation and parameter compatibility
- Support 3 kinds of speed switching: low-speed, medium-speed and high-speed
- Developed based on ASTM F2338 test method
- In line with FDA 21 CFR part 11 standard

TECHNICAL SPECIFICATIONS

Operation	Industrial PC with intuitive interface
Test Station	One servo-controlled station (customizable per product)
Sample Tray	100-150 sample positions (configurable based on product specs)
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	100-240 VAC, 50/60 Hz



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