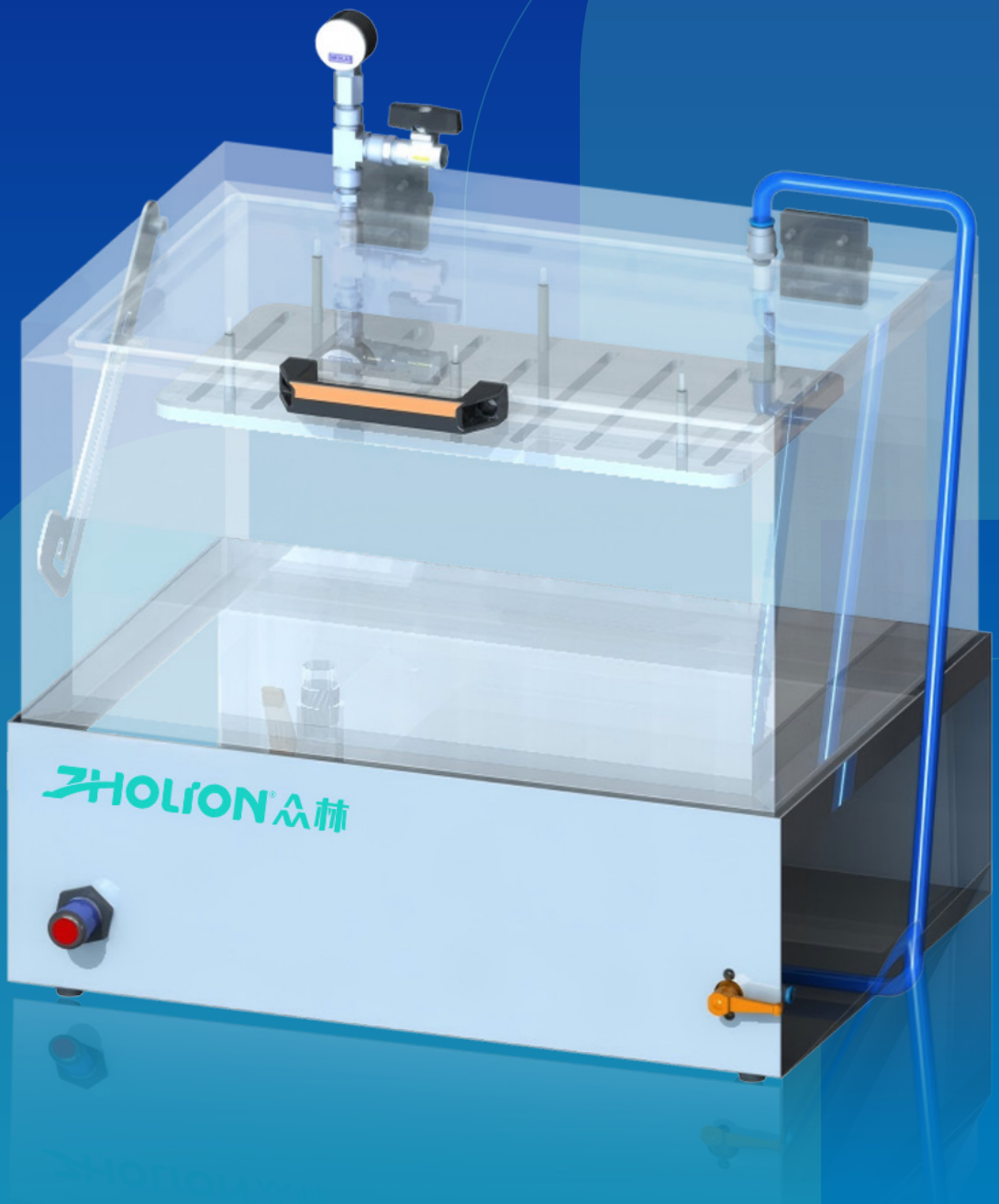
MC-B82 SERIES NEGATIVE PRESSURE LEAK DETECTOR

SUITABLE FOR DYE INGRESS, MICROBIAL INGRESS, AND BUBBLE EMISSION



COMPLIES WITH THE REVIEW STANDARDS OF INTERNATIONAL REGULATORY AUTHORITIES

EQUIPMENT INTRODUCTION

The MC-B82 series are versatile, cost-effective solutions for Container Closure Integrity Testing (CCIT) and package seal quality inspection. Designed for pharmaceutical QC laboratories and packaging development, this system utilizes a vacuum system to support three distinct leak test methodologies under one system: Dye Ingress, Bubble Emission, and Microbial Ingress. Its transparent acrylic chamber and precise vacuum control enable operators to visualize leaks, qualify package integrity per USP <1207> guidelines, and validate Maximum Allowable Leakage Limit (MALL) without the need for expensive tracer gases or complex calibrations.

APPLICATION OBJECTS

Container Types: vials, ampoules, pre-filled syringes, IV bags, cartridges and other containers.

EQUIPMENT FEATURES

- Switch seamlessly between Bubble Emission, Dye Ingress, and Microbial Ingress testing methods
- Transparent acrylic chamber allows direct observation of leak paths for root cause analysis
- Operates on standard compressed air (6-8 bar); no helium, hydrogen, or calibration gases required
- Suitable for simulating altitude and transport conditions
- Available in five chamber sizes to accommodate everything from small ampoules to large IV bags
- Simple venturi vacuum system with integrated drain valve for easy media exchange
- Typical test duration under 30 seconds for Bubble Emission

TECHNICAL SPECIFICATIONS

Test Principle	Visual Observation of Ingress/Egress
Maximum Absolute Vacuum	200 mbar (Adjustable)
Vacuum Generator	Venturi Nozzle (Compressed Air Powered)
Compressed Air Requirement	6 – 8 bar
Connection Interface	G 1/4" (Adapters to 1/4" NPT included)
Chamber Material	Transparent Acrylic Glass
Included Accessories	Tubing 8mm OD; Tubing 12mm OD; G 1/4" M to 1/4" NPT Adapter

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VERSION:20260517