



Lippke® VC1400 vacuum leak detection system

The vacuum leak detection system Lippke® VC1400 finds even the smallest leaks in blister packages, glass vials and other flexible, semi-rigid or rigid packages. It measures seal strength and package integrity for quality control checks, R&D package testing and process optimization on the packaging line. This bench-top instrument automates the classic methylene blue dye test and bubble emission test, with exact, definable and reproducible results. It is compliant with ASTM standard D3078. It is available in two variations, either with an integrated vacuum ejector (requires pressurized air) or with an external, stackable vacuum pump (PU1400). The Lippke VC1400 has an intuitive graphic user interface with touchscreen. This interface gives easy access to features and settings, such as adjusting the vacuum, test and penetration times. Pre-defined test parameters ensure optimal reproducibility of tests. The integrated USB port makes data import and export a breeze with cloning and back-up options. In addition, it enables the easy integration of optional accessories, such as a barcode scanner, keyboard or printer.

Benefits

- High precision vacuum regulation No adjustments required for different package sizes or types Clear and concise on-screen test results
- One-touch documentation print-out with external printer Easy installation and operation Automatically capture and store data
- Test package integrity with blue dye or bubble test

Features

- Touchscreen with GUI for user-friendly operation Vacuum generation with vacuum pump or compressed air
- Individual user logins
- Store test parameters for repeatability
- Data capture, storage and export
- USB port for connecting optional barcode scanner, keyboard or printer
- Optional accessories incl. vacuum chambers, vacuum pump unit and barcode scanner
- Multilingual user interface
- Compliant with ASTM D3078
- IQ/OQ validation documents available

Specifications

Package types:

Test types:

Test package size:

Test time:

Measuring range:

Displayed resolution:

Accuracy of measurement:

Number of test definitions:

Data collection capacity:

collection type:

Dimensions (WxDxH) and weight:

IP class:

Ambient temperature:

Relative humidity:

Ambient pressure:

Power supply and

consumption:

Air supply pressure and connection:

Air consumption:

Connectivity:

Compliance: Standards:

Dansensor Lippke VC1400

Flexible, semi-rigid and rigid packages

Methylene blue dye test or Bubble test

Smaller than vacuum chamber Ø 240 mm x 70 mm

Vacuum time: 24 hours (max) Penetration time: 24 hours (max)

Ejector variant: 100-800 mbar (1.5-11.6 psi)
External vacuum pump variant: 100-900 mbar (1.5-13.1 psi)

1 mbar

± 2 mbar or ± 1% of setpoint (including overshoot when regulating to a fixed pressure)

999

Test data from more than 1,000,000 tests **Data**
Exported to CSV file

284 mm x 236.5 mm x 185 mm (11.2" x 9.3" x 7.3") 3.4 kg (7.5 lbs) Vacuum chamber size: Ø 240 mm x 70 mm

IP 20

+2°C to +35°C

10 to 90 %RH (non-condensing)

900-1050 mbar

100-240 VAC, 50-60 Hz Max 40W

4.5-6.0 bar (optimal performance at approx. 5 bar) Ø6/4mm tube DIN ISO 8573-1:2010 [4:4:3]

Max 60 L/min

LAN: RJ-45 Ethernet 10/100 Mbit/s, DHCP client or fixed IP USB: 1 x Host, USB 2.0 Type A; 1 x Device, USB 2.0 Type B (max current 500 mA)

CE China RoHS II
ASTM D3078



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