

Cumulative Helium Leak Detector Pernicka 700H

Cumulative Helium Leak Detector (CHLD), a single leak testing system for sealed packages, combines mass spectrometer expertise with cryogenic ultra-high vacuum. The Pernicka 700H offers hermetic testing superior to conventional GROSS Leak and FINE leak methods. This technique can be applied to any hermetically sealed device which contains a gas such as Nitrogen, Helium, Argon, Krypton, Xenon, etc. or can be "bombed" with Helium. The Pernicka 700H is controlled by an onboard computer that makes it easy to analyze sealed objects and archive test data simultaneously. The database provides a historical record and facilitates the tracking of production yields.



BENEFITS

- High sensitivity for smallest detectable leak rates of $4 \times 10E-14$ atm-cc/s
- Combining Fine and Gross tests into a single operation results in fast and effective testing procedures
- Simultaneous detection of FCs, Nitrogen, Argon, Xenon, etc.
- Environmentally friendly - no toxic or hazardous materials required
- Integrated LCD monitor provides simple operation
- Onboard computer provides real-time data reading and recording
- Industrial, user-friendly design
- Suitable for leak test methods according to MIL-STD-750, method 1071, procedure CH1-CH2, MIL-STD-883H, method 1014

ORDERING INFORMATION

Type	Pernicka 700H CHLD Cumulative Helium Leak Detector
CHLD Pernicka 700H, 120 V	550-700
CHLD Pernicka 700H, EU	550-701

SPECIFICATIONS

Type	Pernicka 700H CHLD Cumulative Helium Leak Detector
Min. detectable leak rate for Helium (FINE mode)	mbar•L/s >4E-14
Max. detectable leak rate for Helium (GROSS mode)	mbar•L/s >E-4
Detectable masses	2-200
Calibrated built-in test leak	mbar•L/s E-10
Test port	DN 16 CF
Vacuum pump system	turbomolecular pump, oil sealed roughing pump, cryo pump
Supply voltage unit	V (ac) 110/120 (50/60Hz) 15A
Supply voltage cryo compressor (air cooled)	V (ac) 208-240 (50/60 Hz)10A
Ambient conditions	Indoor use only
Operational temperature	°C 15-28
Operational temperature	°F 60 -80
Weight	kg 245
Weight	lb. 540
Dimensions (WxHxT)	mm 660x1390x870
Dimensions (WxHxT)	in. 26x54.5x34,25

ACCESSORIES

Pernicka 700H CHLD Cumulative Helium Leak Detector

High Purity Gas Regulator customized	551-700S
Large Double O-ring Chamber	551-710
Medium Double O-ring Chamber	551-711
Small Double O-ring Chamber	551-712
Small Metal Seal Chamber	551-715



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