

Air Pressure Testing Equipment 1m-50m Mobile Visual Leak Tester Machine

Our Product Introduction

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Basic Information

- Place of Origin: Guangdong , China
- Brand Name: YueXin
- Certification: ISO 20653:2013, DIN 40050-9:1993, IEC60529:2013
- Model Number: YX-JL-QF50C-250L
- Minimum Order Quantity: 1 pcs
- Price: usd+20000-50000+pcs
- Packaging Details: wooden box package
- Delivery Time: 30-45 Days
- Payment Terms: T/T
- Supply Ability: 100+pcs+30



Product Specification

- Product Name: Air Pressure Testing Equipment
- Test Function: IPX8 Water Immersion Test , Leak Test
- Experimental Scene: Immersion Environment
- Water Depth Range: 1-50 Meters
- Turn Table Load Bearing: 25KG
- Controller: 4-inch Touch Screen + PLC
- Power: 100w
- Power Supply: 220V/50HZ
- Highlight: **Air Pressure Testing Equipment 50m, Mobile Leak Tester Machine, Visual Leak Tester Machine**



More Images



Product Description

50m Mobile Visualization Leakage Detector with Negative Pressure

Product size and material:

Outside dimension: Approx W 960×D 710×H 2650 (mm)
Outside material: 304 stainless steel
Inside dimension: Approx ϕ 600×H 1200 (mm)
Inside material: Acrylic

Working scene:

Within a broad spectrum of industries, from chemicals and oil refining to gas distribution, pharmaceuticals, and manufacturing, visual leak detection solutions are commonly deployed to rapidly identify minute leaks occurring in compressed air systems, vacuum installations, steam piping, and a range of pressure-bearing containers. Their advanced visualization capabilities enable accurate leak pinpointing, strengthening inspection processes and ensuring the protection of production facilities.

Test principle:

IPX8 test:

By filling the tank with compressed air and increasing the water surface pressure, the pressure in the water increases synchronously, thereby simulating different water depth environments.

Positive pressure leak test:

First place the sample in a pressurized environment, if there is a leak, the gas will enter the inside of the sample, thereby increasing the internal pressure. After a period of pressurization, the sample is submerged underwater; Then the compressed air is released to form a pressure difference inside the sample, and the internal gas will be discharged to form continuous bubbles in the water. The leak point is where the air bubbles come out.⁵

Product introduction:

The specialized Leak Detection Visualizer, incorporating air pressure methodology, is meticulously crafted to accurately identify leaks within a wide range of systems and individual elements. Its enhanced visual interface expedites the process of leak source identification, ensuring both promptness and precision, making it an indispensable element in maintaining quality standards and preserving the reliability of products.

The test container is made of acrylic material, which is convenient for users to observe and record⁶.

Built-in high-precision pressure sensor, which can display internal pressure changes synchronously.

The tank cover is connected with a mechanical safety valve (not controlled by the software). If the set pressure exceeds the set pressure, the safety valve will release the pressure directly to ensure the safety of users.

Controller: 4-inch touch screen + PLC, using Yuexin self-developed software, which can be switched to multiple languages⁷.

Standard features:

Item	Specification
Thickness of lid	20mm
Flange thickness	20mm
Tank thickness	20mm
Equipment net weight	Approx 200kg
Pressure range	10kPa-500kPa
Water depth range (positive pressure)	1-50 meters
Adjustment method	Automatic adjustment
Pressure accuracy	1 kPa
Pressure error value	±2kPa
Set pressure of safety valve	0.55Mpa(550kPa)
Testing time ⁸	0-999999S
Power supply	220V/50Hz
Power	100w

Notes:

1 The pictures in this document are for customer reference only, and there may be color differences between the actual model and the pictures.

2 This document only lists some test standards, which does not mean that other test requirements and standards cannot be conducted. Welcome to communicate and discuss with us.

3 One test only at the same time. The next project can be only carried out after the current test is completed. In addition, we can provide multi-functional customized test solutions according to user requirements.

4 The formula of the corresponding relationship between pressure and water depth: $P=9.8d$ (Unit :kPa,m).

5 Sometimes there are gaps on the surface of the product's shell, but this part will not last for a long time or bubbles occasionally. Usually, the condition for us to judge whether it is leaking is: observe continuous bubbles. If the product is small and there is almost no space inside (such as lamp beads), the judgment standard is stricter: that is, if there are air bubbles, it will be judged as leakage.

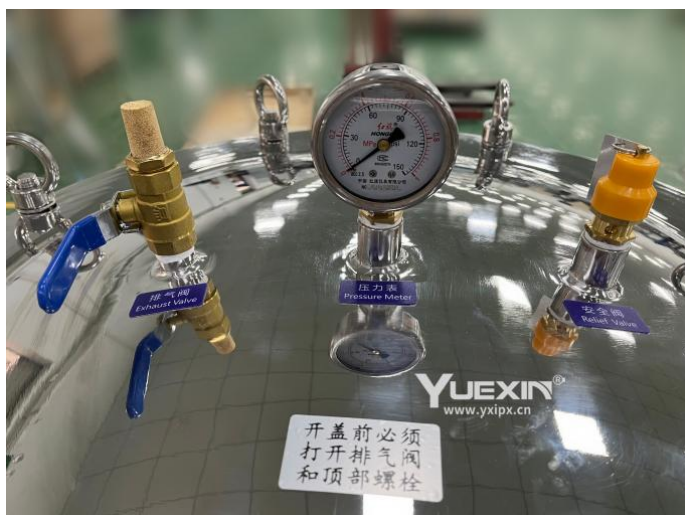
6 It is necessary to avoid scratching the inner wall of the container by the sample, as scratches will affect the observation and video effects.

7 At present, only Chinese and English interfaces are supported; if other languages are introduced, the software can be updated remotely.

8 The time unit set by the factory is generally in seconds. If you want to extend the test time, you need to explain in advance.

9 The photos may not match the actual ones, and are for user reference only.

The detail pictures of product:



pressure meter

lid

Tags: Visual Leakage Inspection Device, Leak Visualization Machine, Leakage Detector



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