

10m Mobile Visual Water Leakage Testing Machine With 4 Inch Touch Screen

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-QF10-40L
- 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

- Name: Water Leakage Testing Machine
- Test Function: IPX8 Water Immersion Test Leak Test
- Turn Table Load Bearing: 10KG
- Experimental Scene: Immersion Environment
- Power: 100w
- Controller: 4-inch Touch Screen + PLC
- Power Supply: 220V/50HZ
- Water Depth Range: 1-10 Meters
- Highlight: 10m Water Leakage Testing Machine, Mobile Water Leakage Testing Machine, Visual Water Leakage Testing Machine



More Images



Product Description

10m Mobile Visual Leak Testing Equipmet with Negative Pressure

Product size and material:

External dimension: Approx W 800×D 550×H 1000 (mm)
External material: 304 stainless steel
Internal dimension: Approx φ350×H 400 (mm)
Internal material: Acrylic

Test principle:

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 description:

The Visual Leak Detection System, harnessing the power of air pressure, stands as a specialized tool designed to meticulously locate leaks in a wide array of systems and components. Its intuitive visual display accelerates the process of identifying leak sources, ensuring both efficacy and accuracy, thereby becoming pivotal for quality control and safeguarding product integrity.

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 80kg
Pressure range	10kPa-500kPa
Water depth range (positive pressure)	1-10 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	100w

Serve scene:

In the vast landscape of industries, including chemicals, petroleum exploration, natural gas transmission, pharmaceuticals, and manufacturing, visual leak detection devices are commonly used to rapidly detect minute leaks in compressed air systems, vacuum setups, steam pipelines, and a myriad of pressure vessels. These devices employ visualization capabilities to precisely locate leaks, thereby optimizing inspection procedures and ensuring the safety of production environments.

Installation requirements:

Water source: Please prepare clean water source.

Air source: Please prepare a compressed air source with an output pressure of 0.6-0.8Mpa⁹.

Power supply: 220V/50HZ, 100w please check whether it is compatible.

Remark:

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 user needs to prepare an air compressor in advance (recommended gas storage capacity > 60L). If you need us to buy it on your behalf, you need to explain in advance.
- 10 The photos may not match the actual ones, and are for user reference only.

The detail pictures of product:



circuit



pressure regulating valve

Tags: Leak Visualization Machine , Visual Leakage Inspection Instrument , Leak Detection Device

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