

220V 50m Mobile Visual Leakage Detection Machine With Negative Pressure

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



More Images



Product Description

50m Mobile Visual Leakage Detection Machine with Negative Pressure

Product size and material:

External dimension: Approx W 950×D 550×H 1000 (mm)
External material: 304 stainless steel
Internal dimension: Approx ϕ 350×H 400 (mm)
Internal material: Acrylic

Serve environment:

In numerous industries spanning chemicals, oil refining, gas distribution, pharmaceuticals, and manufacturing, visual leak detection systems are widely employed to promptly detect minute leaks within compressed air systems, vacuum setups, steam channels, and various pressure containers. Leveraging advanced visualization methods, they enable accurate leak identification, enhancing inspection capabilities and protecting production settings.

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 description:

Designed for pinpoint accuracy in leak detection across diverse systems and components, the Visual Leak Detection Tool leverages air pressure. Its advanced visual interface streamlines the process of swiftly locating leak origins, promoting both efficiency and precision, which is vital for maintaining quality assurance measures and safeguarding the integrity 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 120kg |
| Pressure range | 10kPa-500kPa |
| Water depth range (positive pressure) | 1-50 meters |
| Adjustment method | Automatic adjustment |
| Pressure accuracy | 1 kPa |
| Pressure error value | ± 2 kPa |
| Set pressure of safety valve | 0.55Mpa(550kPa) |
| Testing time ⁸ | 0-999999S |
| Power supply | 220V/50Hz |
| Power | 100w |

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.

Site space: \geq W800×D800×1200mm

Notices:

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:



control panel

pressure

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



Guangzhou Yuexin Test Equipment Co., Ltd.



18122303372



mft@yxipx.com



raintestchambers.com

101, No.3, Jiangjunzi Road, Dalong Street, Panyu District, Guangzhou City China