

## Desktop 50m 20L Leak Test Machine, High Precision Leakage Detection Equipment

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-S50-20L
- 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

- Test Function: IPX8 Water Immersion Test Leak Test
- Container Material: Acrylic Material
- Controller: 7-inch Touch Screen + PLC
- Experimental Scenarios: Immersion Environment
- Water Depth Range: 50 Meters
- Power Supply: 220V/50HZ
- Uncapping Method: Manual Opening
- Turn Table Load Bearing: 20KG
- Name: Leakage Visualization Tester , Leak Test Machine
- Highlight: **20L Leak Test Machine, Desktop Leak Test Machine, High Precision Leak Test Machine**



### More Images



## Product Description

### Desktop 50m 20L Leak Test Machine, High Precision Leakage Detection Equipment

#### Product size and material:

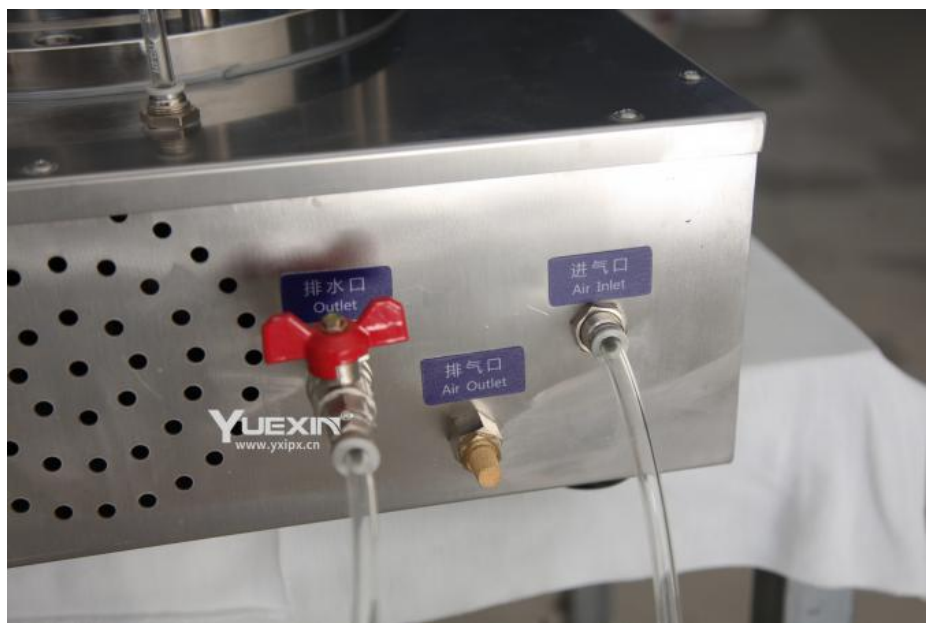
External dimension: Approx W 500×D 550×H 600 (mm)

External material: 304 stainless steel

Internal dimension: Approx  $\phi 270 \times H 300$  (mm)

Internal material: Acrylic

#### The detail images:



outlet, air outlet and air inlet

lid

#### 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.<sup>5</sup>

##### Negative pressure leak test:

Submerge the sample directly into the water, and then evacuate the tank, so that the pressure inside the sample shell is greater than the outside. If there is a leak in the sample, you can see bubbles coming out of the leak in the water.<sup>6</sup>

#### Product outline:

This visual leak detector utilizes advanced visualization technology to quickly and accurately locate and display the source of leaks. It provides maintenance and technical personnel with precise information, thereby significantly enhancing the efficiency of leak detection and repair. Equipped with highly sensitive sensors and an intuitive display screen, it is capable of operating in various complex environments.

The test container is made of acrylic material, which is convenient for users to observe and record.<sup>7</sup>

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: 7-inch touch screen + PLC, using Yuexin self-developed software, which can be switched to multiple language<sup>8</sup>.

Protection measures: short circuit protection, overpressure alarm.

If the user needs to provide an external power supply for the sample, we can open a hole in the lid and provide a locking device (wire diameter <15mm).

#### Standard features:

Item	Parameters
Thickness of lid	25mm
Flange thickness	30mm
Tank thickness	15mm
Equipment net weight	Approx 120kg
Pressure range	-50kPa ~ 300kPa
Water depth range (positive pressure)	50 meters
Adjustment method	Automatic adjustment
Pressure accuracy	1 kPa
Pressure error value	±2kPa
Set pressure of safety valve	0.35Mpa(350kPa)
Testing time <sup>9</sup>	0-999999S
Power supply	220V/50Hz
Power	100w

#### Working scenario:

Widely applied for detecting leaks in pipelines, pressure vessels, heat exchangers, and similar equipment, visual leak detectors play a crucial role in industrial production, maintenance, and quality assurance procedures, enhancing both the precision of leak detection and operational effectiveness.

#### 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 Negative pressure testing is suitable for testing samples whose internal pressure is higher than the external ambient pressure, or for quick testing (no inflation process).
- 7 It is necessary to avoid scratching the inner wall of the container by the sample, as scratches will affect the observation and video effects.
- 8 At present, only Chinese and English interfaces are supported; if other languages are introduced, the software can be updated remotely.
- 9 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.
- 10 The photos may not match the actual ones, and are for user reference only.

**Tags:** Leak Visualization Machine , Leak Inspection Machine with Visual Display , Leakage Detection Device



Guangzhou Yuexin Test Equipment Co., Ltd.



18122303372



mft@yxipx.com



raintestchambers.com

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