30m 30L Desktop Leakage Detector With Overpressure Protection Measures

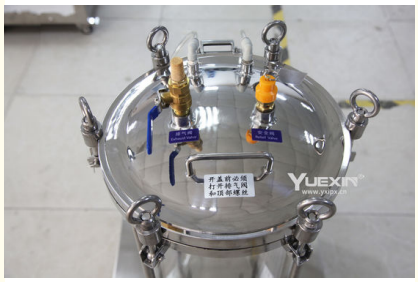
Our Product Introduction

Basic Information

- Place of Origin: Guangdong , China
- Brand Name: YueXin
- Certification: ISO 20653:2013, DIN 40050-9:1993, IEC60529:2013
- Model Number: YX-JL-S30-20L
- 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
- Experimental Scenarios: Immersion Enrivonment
- Container Material: Acrylic Material
- Water Depth Range: 30 Meters
- Turn Table Load Bearing: 20KG
- Power Supply: 220V/50HZ
- Power: 100w
- Controller: 7-inch Touch Screen + PLC
- Product Name: Leakage Visualization Tester , Leak Test Machine
- Highlight: **30m Desktop Leakage Detector**, **30L Desktop Leakage Detector**, **Overpressure Protection Desktop Leakage Detector**



More Images

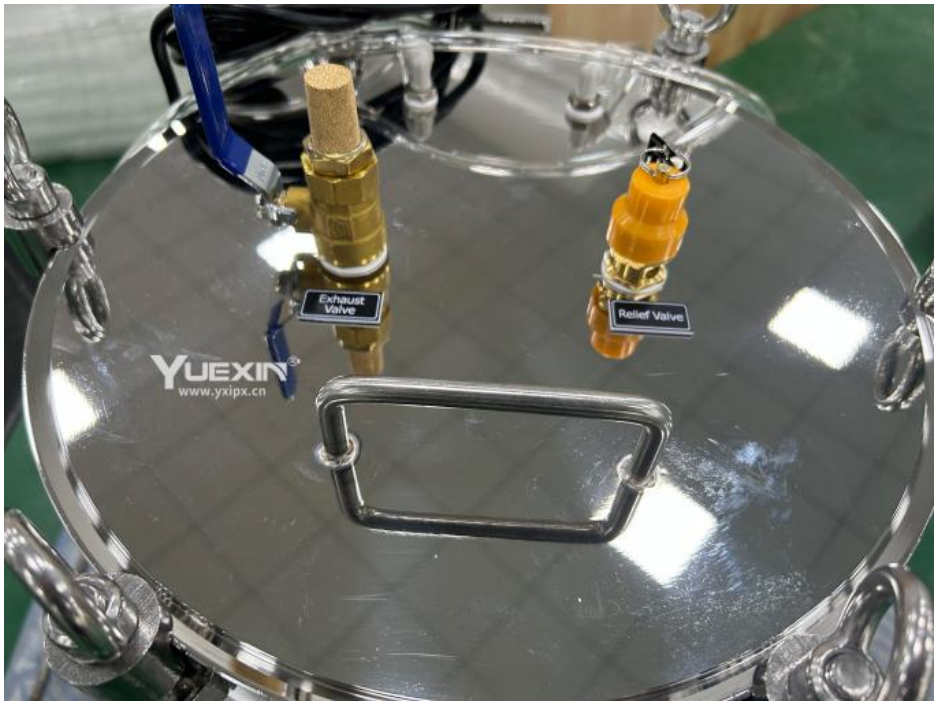
Product Description

30m 30L Desktop Leakage Detector with Overpressure Protection Measures

Product size and material:

External dimension: Approx W 500×D 550×H 800 (mm)
External material: 304 stainless steel
Internal dimension: Approx φ270×H 500 (mm)
Internal material: Acrylic

The detail images:



lid air pipe

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]

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.[6]

Product outline:

This advanced visual leak detector employs cutting-edge visualization technology to pinpoint and visualize leak sources swiftly and precisely. By furnishing maintenance and technical staff with accurate details, it vastly improves the efficiency of detecting and repairing leaks. Armed with ultra-sensitive sensors and a user-friendly display, it is designed to function reliably in a multitude of challenging environments.

The test container is made of acrylic material, which is convenient for users to observe and record[7].
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 languages[8].
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)	30 meters
Adjustment method	Automatic adjustment
Pressure accuracy	1 kPa
Pressure error value	±2kPa
Set pressure of safety valve	0.35Mpa(350kPa)
Testing time[9]	0-999999S
Power supply	220V/50Hz
Power	100w

Working scenario:

In industrial settings, visual leak detectors are widely employed for detecting leaks in pipelines, pressure vessels, heat exchangers, and similar apparatus, playing a vital role in production, maintenance, and quality control processes by enhancing leak detection precision 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

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