

# Automatic Endoscope Leak Tester

Model# ZUTR10003



# OPERATION MANUAL

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# Automatic Endoscope Leak Tester

## Model# ZUTR10003



## Introduction

### Intended Use

The Automatic Leak Tester is used as an early detection tool in wet leak testing to detect small holes in the exterior of an endoscope. Early detection of leaks can prevent issues with cross contamination and costly repairs do to fluid invasion. Do not use this product for any other purpose.

Compatible with ACMI, Fujifilm, Fuse, Olympus, Pentax, Richard Wolf & Storz endoscopes.

### Labels, Symbols & Signal Words

The meanings of the labels, symbols and signal words that appear on the packaging, manual and/or instrument are as follows:

The following signal words are used throughout this manual:



#### **WARNING**

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



#### **CAUTION**

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices or potential equipment damage.

#### **NOTE**

Indicates additional helpful information.

### Environmental Conditions

- For indoor use only
- Temperature range: 10°C/50°F to 40°C/104°F

### Supply Ratings

Voltage: DC 12V, 3.3A

#### **NOTE**

Use only the AC/DC power supply included with the unit.

## Important Safety Information



**WARNING** Plug power cord into a GFI protected receptacle.



**WARNING** Do not immerse the unit in water.



**WARNING** Do not operate the unit if the cord is damaged or has been exposed to water.



**WARNING** Install in accordance with electrical codes.



**WARNING** Do not open the air pump unit (electrical hazard).



**CAUTION** Read this entire manual before operating unit.



**CAUTION** Always leak test an endoscope in accordance with manufacturer's instructions.



**CAUTION** Always wear protective personal equipment when handling a dirty endoscope.



**CAUTION** Ensure that the air hose connector is securely attached to the air pump unit and that the endoscope leak test connector is fastened securely to the endoscope. Ensure that the unit has been running for at least 30 seconds before placing endoscope in water.



**CAUTION** Do not ever power the toggle switch off while the endoscope is submerged in water.



**CAUTION** Always wait 10 seconds after powering toggle switch off to release the air from inside the endoscope before disconnecting the leak test connector.

## Mounting Configurations

### Standard / Counter-Top

The standard Automatic Leak Tester has rubber bumpers on the bottom of the unit and is intended to be placed on a flat surface.

### Wall-Mount

The Automatic Leak Tester has the option to be converted to a wall mount unit. A bracket that is sold separately may be installed by a trained service personnel. Please contact Zutron Medical for more information.



**CAUTION**

Permanent wall-mounted installation should be performed by trained service personnel. Improper mounting could result in injury or damage to the Automatic Leak Tester.

**NOTE**

Consult with responsible personnel for proper location and bracing of the mounting plate in your specific facility.

## Cleaning Procedure

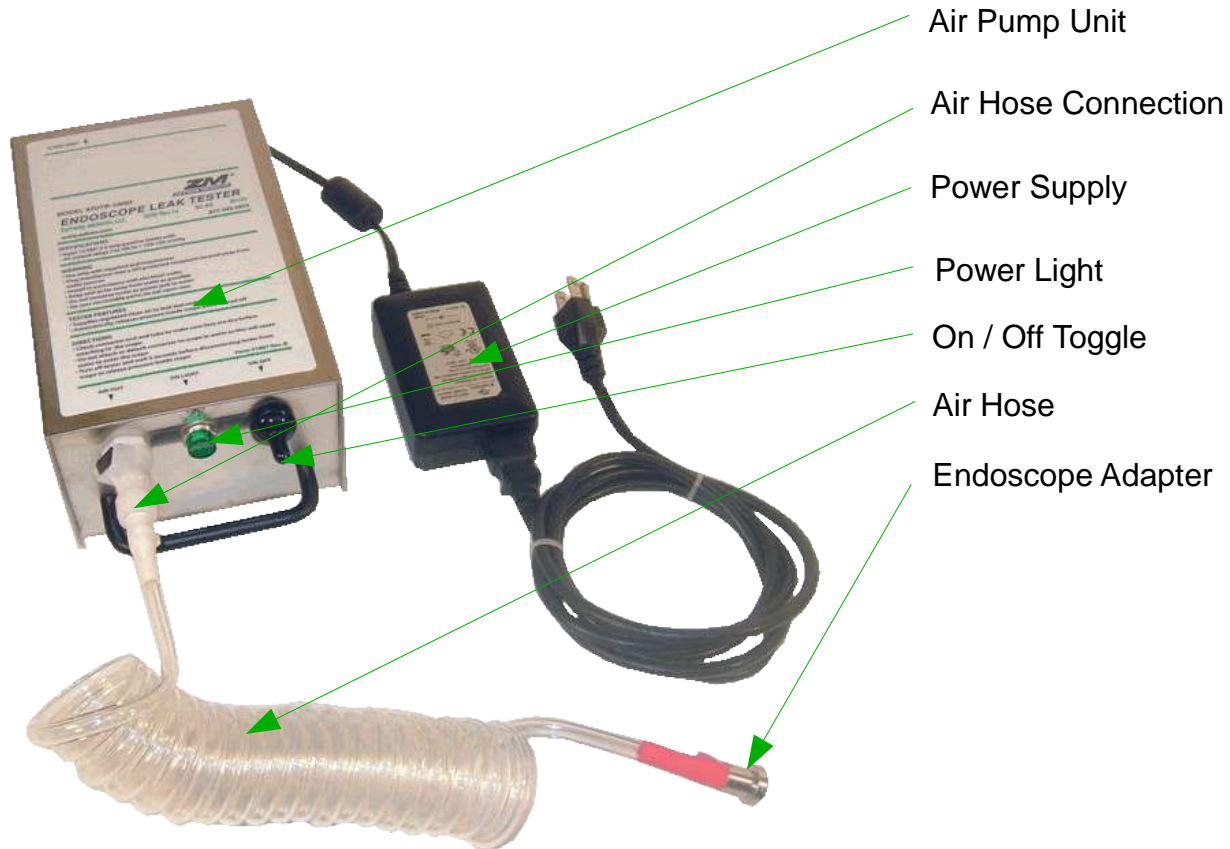
1. Perform daily decontamination procedure at the end of each day. Daily decontamination procedure can be performed more frequently as needed or per facility policy.
2. Inspect all tubing, connectors, and calibration devices for damage, holes, and debris daily. Follow facility policy for reporting of any damage.
3. Wipe down the Automatic Endoscope Leak Tester, tubing, and calibration device with facility approved surface disinfectant.
4. Follow IFU for facility approved disinfectant. Allow to air dry per facility approved disinfectant.

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## Getting to know the Automatic Endoscope Leak Tester



Air Pump Unit

Air Hose Connection

Power Supply

Power Light

On / Off Toggle

Air Hose

Endoscope Adapter



Calibration Gauge - ZUTR10003TG



ACMI Adapter - ZUTR10001AA



Fujifilm Adapter - ZUTR10001FA



Olympus - ZUTR10001OA



Pentax Adapter - ZUTR10001PA



Richard Wolf Adapter - ZUTR10001RWA



Storz Adapter - ZUTR10001SA

### Calibration of Leak Tester

Calibrate the unit daily by connecting the Leak Tester Calibration Gauge to the unit. This unit is calibrated to produce air pressure between 120–196 mmHg. Order # **ZUTR10003TG**.

## Instructions For Use

1. Plug in the power supply to the unit and attach the air hose connector to the front of the unit.



2. Toggle Automatic Leak Tester "ON" to ensure no fluid is inside the tubing or adapter.

After a few seconds toggle "OFF".



3. Before placing endoscope in water, attach the leak test adapter to the endoscope and press toggle "ON".

Wait at least 30 seconds before placing endoscope in water.



4. Submerge endoscope in water and look for air bubbles that indicate a leak coming from the endoscope, while deflecting the bending section.



5. After testing, remove the endoscope from water and toggle the Automatic Leak Tester "OFF".



6. Always wait 10 seconds after powering the toggle switch off to release the air from inside the endoscope before disconnecting the leak test connector.

