Endo-Leak Tester / Endo-Leak Tester Kit
Model #'s ZUTR30005 / ZUTR3005KIT

Pictured: Endo-Leak Tester Kit

OPERATION MANUAL
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Intended Use

The Endo-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 and 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 power the switch off or press “STOP” while the endoscope is submerged in water.

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

Standard / Counter-Top

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

Wall-Mount

The Endo-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 Endo-Leak Tester.

NOTE

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

Endo-Leak Tester and Accessories 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 Endo-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.
Getting to know the Endo-Leak Tester

Digital Display

Power Supply

Air Hose Connection

Start / Stop

On / Off Switch

Air Hose

Leak Test Adapter

ACMI Adapter - ZUTR10005A
Fujifilm Adapter - ZUTR10005F
Olympus / Fuse Adapter - ZUTR10005O
Pentax Adapter - ZUTR10005P
Richard Wolf Adapter - ZUTR10005W
Storz Adapter - ZUTR10005S
Getting to know the Endo-Leak Tester - Continued

Leak Tester Adapter
(See previous page for additional ordering information)

Hand Held Leak Tester / Calibration Gauge
ZUTR10005HH
(Sold separately or with Endo-Leak Tester Kit)

Calibration Gauge Adapter ZUTR10005CA
(Sold separately or with Endo-Leak Tester Kit)

Digital Display Information

Power Indicator
Leak Tester Status (Stopped / Running)
Set Output Pressure
Output Pressure Measurement
Start / Stop (Enter / Select In Settings)
Scroll Down / Decrease Settings
Scroll Up / Increase Settings
Instructions For Use – Dry Leak Testing

1. Attach the provided Leak Test Adapter to the Hand Held Leak Tester gauge.

2. Attach the Leak Test Adapter to the endoscope.
   
   **NOTE** The Hand Held Leak Tester is not waterproof. Please be cautious when using this unit around water.

3. Pump the inflation bulb of the Hand Held Leak Tester gauge until the needle holds steady in the green zone.

4. With the endoscope pressurized, manipulate the control knobs in all directions. If the needle holds steady for a period of 2 minutes; the instrument is airtight.

5. After testing, the instruments pressure can be reduced by pressing down on the Air Release Valve located on the front of the gauge.

   **NOTE** The Hand Held Leak Tester is not waterproof. Please be cautious when using this unit around water.
Instructions For Use – Wet Leak Testing

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

2. Power the toggle switch on and press “RUN” to ensure no fluid is inside the tubing or endoscope adapter.
   After a few seconds, press “STOP”.

3. Before placing endoscope in water, attach the leak test adapter to the endoscope and press “RUN”. Wait at least 30 seconds before placing endoscope in water.

4. Submerge entire endoscope in water and look for air bubbles that indicate a leak coming from the endoscope. Massage all buttons and turn control knobs to move bending section in all directions. Follow endoscope's IFU for more detail.

5. After testing, remove the endoscope from water and press “STOP” on the Endo-Leak Tester unit.
   Please note water temperature may affect pressure reading.

6. Always wait 10 seconds after turning the power switch off to release the air from inside the endoscope before disconnecting the leak test connector.
1. The Endo-Leak Tester is to be calibrated daily.

2. Connect the Calibration Gauge to the Calibration Gauge Adapter.

3. Connect the Calibration Gauge Adapter to the Endo-Leak Tester.

4. Power the toggle switch on and press “RUN” to start calibration of the Endo-Leak Tester.

5. The Endo-Leak Tester is calibrated to produce air pressure at 150 mmHg. If the gauge shows +/- 3mmHg than the set pressure, then the unit is not calibrated correctly.

If the Endo-Leak Tester is malfunctioning or not calibrated correctly, please contact Zutron Medical at 877-343-5873.

You can continue to wet leak test using the manual leak testing procedure. Please follow your manual leak tester IFU and endoscope IFU for more details.