

Thanks for using our product incorporated with advanced leak detect technology and excellent parts of an apparatus. We are convinced that we will meet your requirements:

- ① Detect all halogen refrigerants.
- ② Sensitive manual adjusting function makes it convenient to use
- ③ Well-designed and exquisite circuit
- ④ Sound and light alarming indicator
- ⑤ Excellent sensor to detect subtle leak halogen gases.
- ⑥ Portable design with suitcase
- ⑦ Flexible long handle to detect leak source at any place.

Content:

P1..... Introductions
 Features
 P2..... Structures
 P3..... Operation descriptions
 P4..... Notes
 Applications
 Performances
 P5..... Maintenance
 P6..... Warranty
 Failure inspection

Warranty

- ① Should any problems arise in the operation within one year from the date of purchase, a no-charge repair or replacement will be offered to the original purchasers.
- ② The warranty applies to all repairable instruments that have not been tampered with or damaged through improper use.
- ③ Make sure that you have reviewed the maintenance part of this manual to see if the problem can be solved before returning the tool for repair.
- ④ Send the return warranty receipt to our company within 30 days dated from the purchase.

Inspect failures

Problems	Reasons	Measures
Roaring when switched	Low battery voltage	Replace batteries
Desensitivity	Low battery voltage	Check voltage and change batteries
Desensitivity	Sensing tip is worn-out	Replace sensing tip
Desensitivity	Sensing tip is dirty	Replace sensing tip or clean sensing tip
Failure to detect the leak	Sensing tip is dirty or worn-out	Replace batteries or replace or clean sensing tip
No roaring	Low battery voltage	Replace batteries

Maintenance

Proper maintenance of your leak detector is very important. Carefully following the instructions below to reduce the mal-operation and prolong the life expectancy of the unit.

- 1 Keep the sensing tip clean from the dust, moisture and grease.
- 2 If the tip itself is dirty it can be cleaned by immersing in a mild solvent, such as alcohol, for several seconds, and then using compressed air and/or a towel to clean. Never use solvents such as gasoline, turpentine, minerals, etc. for they will leave detectable residue and desensitize your unit.

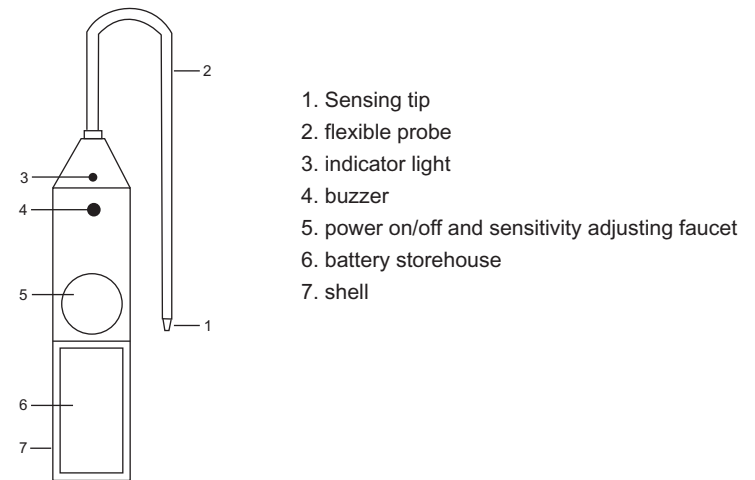
Warning: turn the tool off before replacing the sensing tip. Failure to do so may result in a mild electrical shock!

- 3 Sensing tip replacement: the tip will eventually wear out and require replacement. It is difficult to predict exactly when this will occur since tip longevity is directly related to the conditions and frequency of use. The tip should be replaced whenever the alarm sounds or becomes erratic in a clean and pure environment.
- 4 Take out the batteries in case of long time of no-use.
- 5 When red indicator light blinks and buzzer clicks it's time to change the batteries.
- 6 If the tool does not work please inspect whether the batteries are in a stable connection.
- 7 Your part of opening the tool is beyond the warranty service.

Please read through the manual to have a detailed knowledge about the product's performance in order to avoid the mal-operation and prolong the life of batteries and apparatus.

Structure:

WJL-2000 is a portable and reliable leak detector for the detect of leak in air-conditioners and refrigerant systems. It features with a small size, high sensitivity and flexible handle to detect the leak at any place.



WJL-2000 is composed of sensor, plastic shell and inner circuit. Sensor (sensing tip) is installed in a flexible metal probe. Red indicator light, buzzer, switch and sensitivity adjusting faucet.

Descriptions to Operation

- ① Install four cell size 7 alkaline batteries.
- ② Red indicator light shows the instrument in working state.
- ③ Balancing adjusting: Detect the leak when it sounds click, click in adjusting.
- ④ Examine the refrigerant system to discover the cranny and eroded places first and pay prior attention to such places.
- ⑤ No contact between the dirty places and sensing tip. Use dry towel and compressor to make it clean instead of the use of detergent to avoid the chemical reaction.
- ⑥ Following the coherent route to detect in order to avoid omission of leaks. Remember to detect the rest places after finding a leak hole. Sensing tip should move at the speed of 25-50mm/s with a distance of no more than 5mm around the very place to detect in order to attain the best inspection result. A roaring stands for a leak detected.
- ⑦ Take the tool away and readjust the sensitivity handle to reach the maximum sensitivity. Inspect the place again carefully and confirm the exact place of leak. You are recommended to adjust the sensitivity as often as you can and shut up the tool when finishing the detect to prolong the life longevity of batteries and avoid the false alarm in the state of maximum sensitivity.

Note:

- ① Make sure that the leak environment is free of wind to avoid the leak gas blowing away from the leak source. Alarming and false inspection will occur.
- ② Detect and repair the big cranny, then detect the tiny one when they co-exist.
- ③ Avoid the contact with the moist and impregnant in case of alarming
- ④ Long time use of the batteries will influence the stability of the tool and false alarming.

Application range:

- ① Detect leaks in air-conditioner and other refrigerant systems. It will respond to all halogen gases (including Chlorine and Fluorine), which include but are not limited to:
 CFCs e.g.R1, R11, R500, R503 etc
 HCFCs e.g.R22 R123 R124 R502 etc
 HCFCs e.g.R134a, R404a, R125 etc
- ② Detect Ethylene Oxide gas leaks in hospital sterilizing equipment (it will detect the homogenate carrier gas).
- ③ Detect SF-6 in high voltage circuit breakers.
- ④ Detect most gases including Chlorine, Fluorine and Bromine (halogen gases).
- ⑤ Detect cleaning agents used in dry cleaning applications such as perchloroethyl.

Performance

Power supply	DC6V size 7 Alkaline batteries (4)	Maximum sensitivity	14 grams/year
Size	155mm x 45mm x 36mm	Warm-up time	6 seconds
Battery life expectancy	About 50 hours	Reaction time	Instantaneous