

Refrigerant Identification Using The Refrigerant Identifier



The Portable Refrigerant Identifier

POWER SUPPLY

SAMPLE HOSES



**RECHARGABLE
BATTERY**

BATTERY CLIPS



The Portable Refrigerant Identifier

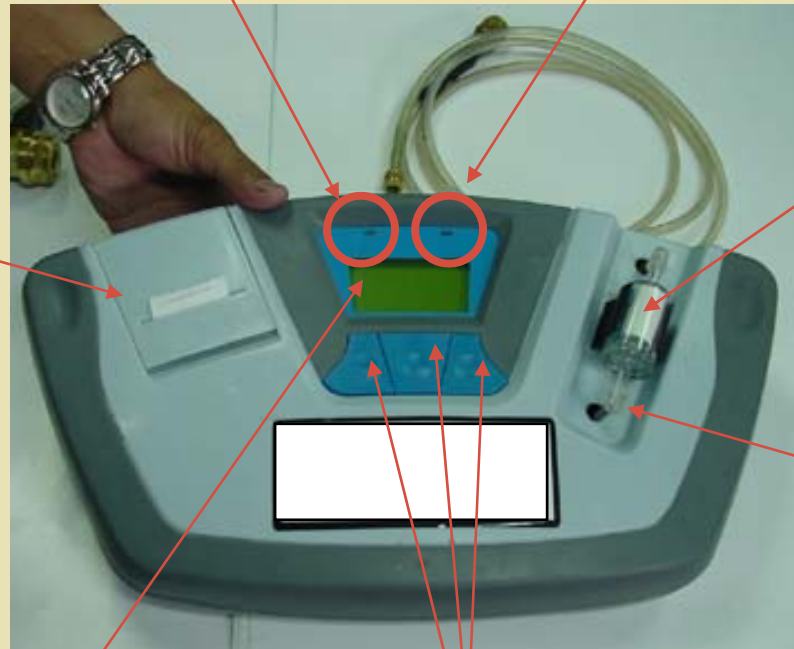
GREEN LED (PASS)

RED LED (FAIL)

SAMPLE FILTER

PRINTER DOOR

AIR INTAKE PORT



CONTROL DISPLAY
PANEL

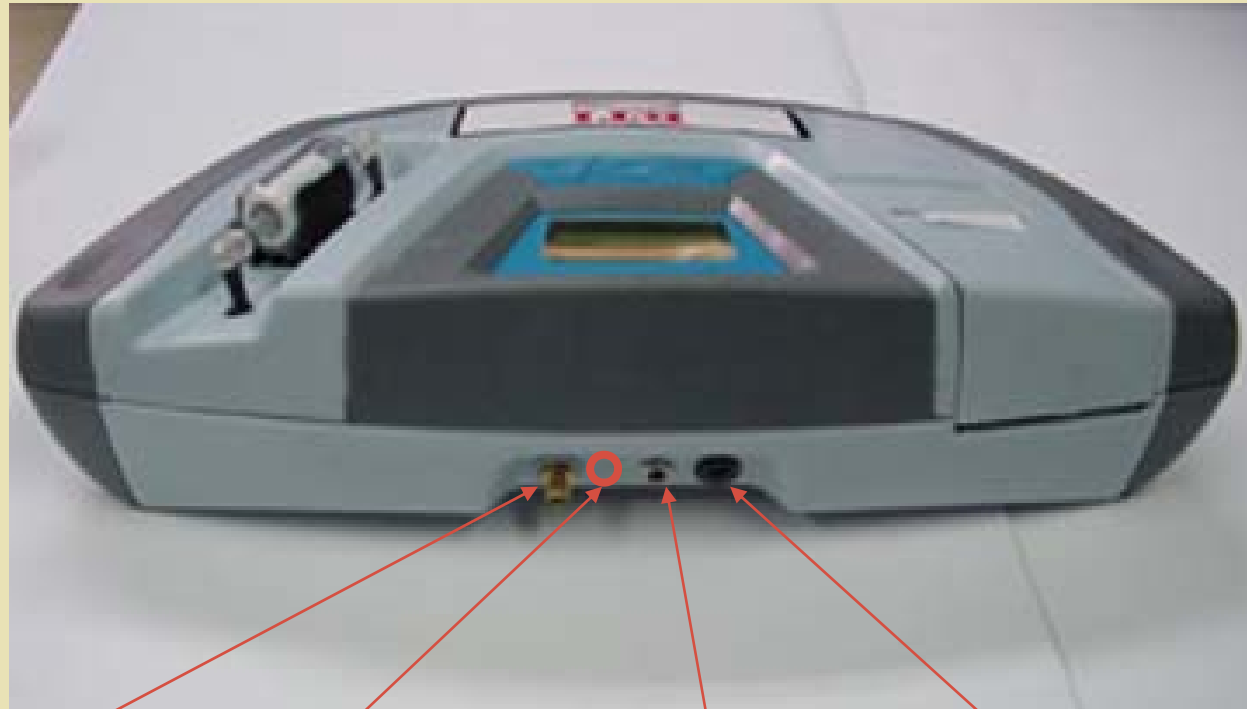
KEY BUTTONS



Note: Never obstruct the
air intake port.



The Portable Refrigerant Identifier



**SAMPLE
INLET**

**SAMPLE
EXHAUST PORT**

**BATTERY
CHARGE
PORT**

**12 VDC POWER INPUT
(BATTERY CLIPS)**

NOTE : It is important not to block the exhaust port for an error may occur if it is blocked



Before proceeding in identifying refrigerant, the following should be considered:

- Always place the identifier on a flat and sturdy surface
- Do not utilize other hose than those supplied with the instrument
- Always verify that the refrigerant to be tested does not contain or will emit heavy loads of oil or liquid.
- Never admit any sample into the instrument in excess of 300psig.
- Always inspect the sample filter for signs of red spots or discoloration anywhere on the white outside diameter of the element. If any discoloration or red spots are noticed, ***REPLACE THE FILTER BEFORE USING THE INSTRUMENT.***

Changing the Sample filter



- **PULL STRAIGHT UP AND OUT**



- **CAREFULLY REMOVE THE FLEXIBLE, BLACK RUBBER TUBING CONNECTIONS FROM BOTH ENDS OF THE EXISTING FILTER**



- **INSTALL THE TUBE ENDS IN THE BARBS OF THE REPLACEMENT FILTER FOLLOWING THE FLOW ARROW AND CAREFULLY SLIDE THE TUBING BACK INTO THE INSTRUMENT**



During the use of identifier, the following should be considered:

- Always wear hand and eye protection.
- Always work in a well ventilated area, avoid contact with refrigerant. It can cause frost bite and blindness.
- If working with hydrocarbon, extreme care must be considered because of its flammability

Reminder:

Always keep in mind that, whatever type of refrigerant you are identifying, you should not smoke!!!

Using the Refrigerant Identifier

Make sure that the battery is installed and charged

Press the left, soft key, power button. After approximately 3-4 seconds, then press the “done” button for the instrument calibration

Press the cal. button to start the calibration of the instrument. The calibration will take around 30 seconds



Note: A buzzing sound will be heard during the self calibration of the unit

Using the Refrigerant Identifier

After calibrating, the unit will display the instruction on screen as shown below



Connect the sample hose to the cylinder to be tested. Make sure that the cylinder is in the upright position



Note: only vapor refrigerant must enter the identifier

Using the Refrigerant Identifier

In case you will test a cylinder with dual port, make sure to connect the sample hose on the vapor side of the valve.



Vapor/gas
port valve

Liquid
port valve

Using the Refrigerant Identifier

Open the cylinder slowly and allow the vapor refrigerant to enter the unit. Select the type of refrigerant you want to test by pressing either R12 or R134a, then close the cylinder

In this figure, the user test the content of the cylinder as an R12 refrigerant. The unit is analyzing the type of refrigerant from the cylinder



Using the Refrigerant Identifier

Check the type of refrigerant as shown in the display result panel. The result shows that the refrigerant failed as refrigerant 12 and the red LED illuminates. It contains 0% of R12.

The figure below shows the detail of the result. The cylinder contains 100% of R134a refrigerant.



To see the detail of the result, press the button which says "more"

Note: If the refrigerant tested is 98% pure or better, and the air content is less than 90%, the PASS screen will display and the Green LED will illuminate. If the refrigerant is less than 98% pure or the air content is greater than 90%, the FAIL screen will display and the Red LED will illuminate

Using the Refrigerant Identifier

To print the result, just press
The button which says “print”

The figure below shows the unit
is printing the result



Using the Refrigerant Identifier

To exit the test, press the “exit” button



To test for another type of refrigerant, the unit must be calibrated again. After finishing the test, return the unit to its carrying case properly



A collection of military medals and a compass are displayed on a wooden surface. The medals include a red ribbon with a circular emblem, a blue ribbon with a circular emblem, and two silver Maltese crosses with central medallions. A pair of gold-rimmed glasses and a silver compass are also visible. The background is a light-colored, textured surface.

**ANY
QUESTION?**

THANK YOU VERY MUCH !!!