



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION



SUSTAINABLE DEVELOPMENT GOAL 9
INDUSTRY, INNOVATION AND INFRASTRUCTURE

Refrigerant identifier Demonstration

Vienna, June 15, 2017

Presented by:

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Ultima ID RI-2004DX/DXP

The Neutronics Ultima ID Model RI-2004DX/DXP Refrigerant Analyzer will provide a fast, easy and accurate means to determine refrigerant purity in Automobiles and R134a or R12 Refrigerant cylinders

Features

Refrigerants:	R134a, R12, R22, HC, Air
Test Time:	60 Seconds
Calibration:	Automatic
Sample Type:	Vapor Only 300 psig max.
Temperature:	10 ~ 50°C
Special:	Automotive use Only



Ultima ID RI-2004HV/HVP

The Neutronics Ultima ID Model RI-2004HV/HVP Refrigerant Analyzer will provide a fast, easy and accurate means to determine refrigerant purity in refrigerant storage cylinders or directly in HVAC/R systems.

Features

Refrigerants:	R134a, R12, R22, HC, Air
Test Time:	60 Seconds
Calibration:	Automatic
Sample Type:	Vapor Only 300 psig max.
Temperature:	10 ~ 50°C
Special:	Remove Refrigerant Label < 90% Purity



Ultima ID RI-700H

Application: Multiple Commercial Refrigerant Testing for System, Virgin & Recovered Cylinder Testing

Features:

Analyzed Refrigerants: R134a, R22, **R32**, R404A, R407C, R410A, air

Test Time: 180 Seconds

Calibration: Automatic

Sample Type: Vapor or Liquid.

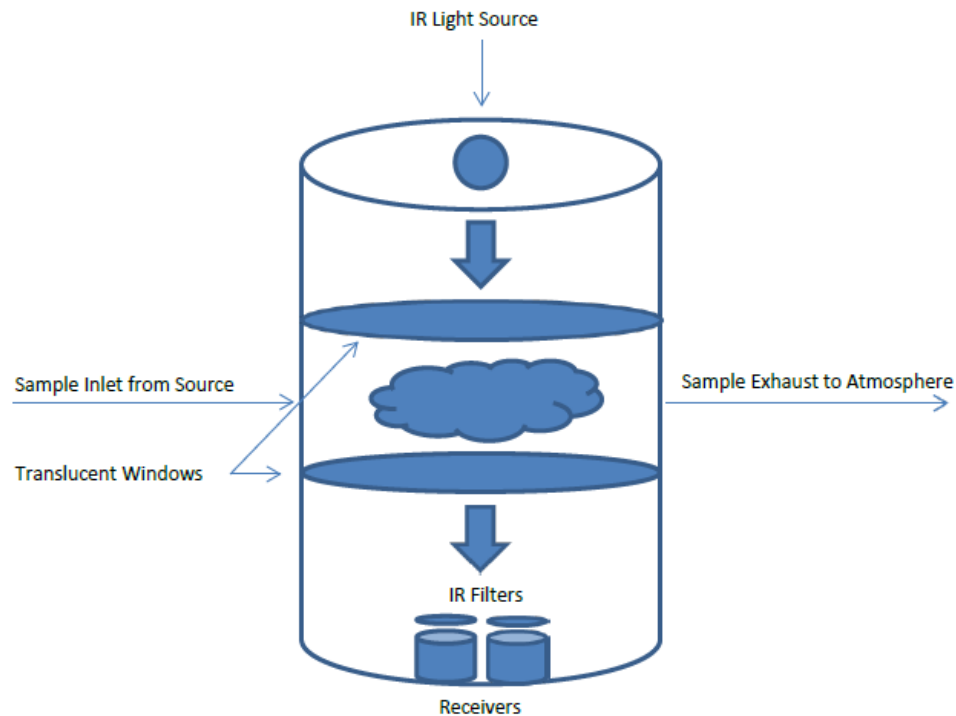
Temperature: 10 ~ 50°C

Special: Fingerprinting

In addition, the instrument has the capability of identifying pure R12, R1234yf, R408A, R409A, R417A, R421A, R421B, R422A, R422B, R422C, R427A and HC (R600, R600a, R290).



Principle of Operation



Sample gas is extracted from the vehicle or cylinder using the gas pressure. The pressure is then reduced to about 1 Bar and passed through the sample chamber. An Infra Red light source is generated and passes through the gas sample. The light then passes through Infra Red filters and the amount of remaining energy is measured. These values are then processed through a software algorithm and a result is produced.



Fingerprinting

Neutronics Inc
Refrigerant
Analyzer

Channel Data

F01:	0.2
F02:	1.3
F03:	0.5
F04:	1.3
F05:	30.7
F06:	31.9
F07:	17.6
F08:	12.3
F09:	1.4
F10:	0.3
F11:	1.1
F12:	1.5

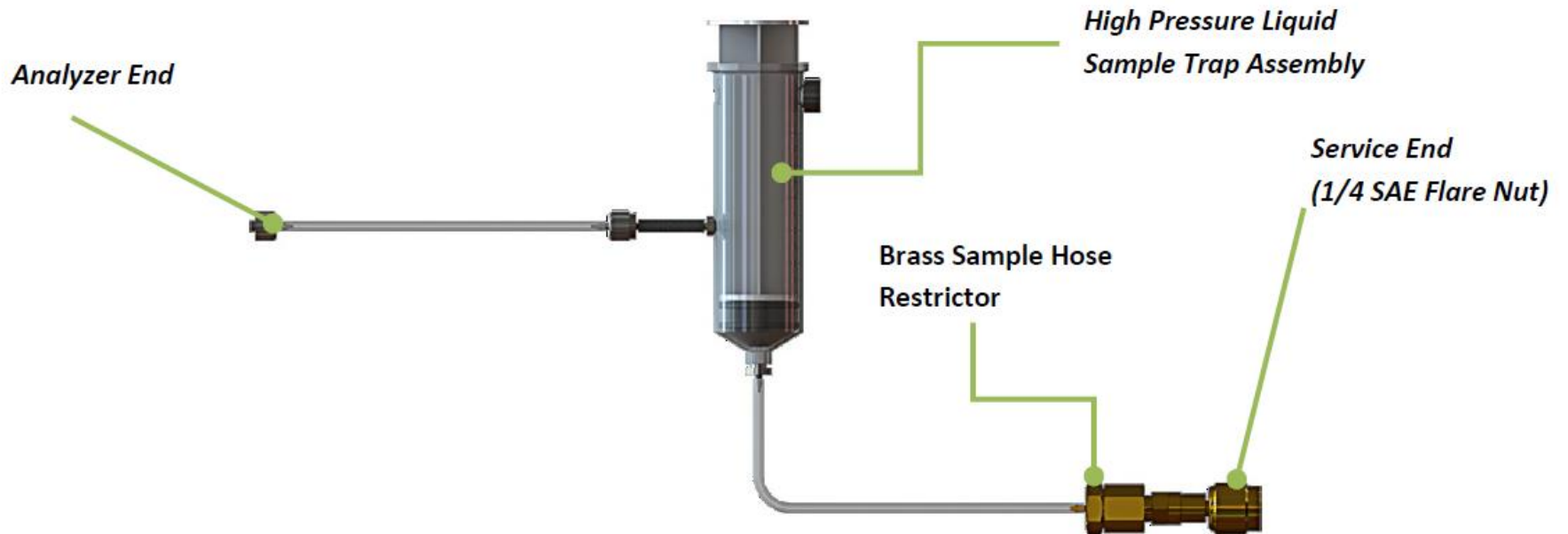
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(453-0103r1390)



Liquid Sampling (FAQ)





Thank you for your attention

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