



456 Creamery Way  
 Exton, PA 19341

The vast majority of Neutronics manufactured refrigerant identifiers are configured for the detection of R134a, R12, R22 and Hydrocarbons. No current or previous Neutronics R134a identifier is/was designed for detection of R40 as a direct contaminant. Neutronics has evaluated the performance of both current and legacy refrigerant identifiers to determine their suitability for use in testing cylinders with the suspect material. It is important to note that the ONLY acceptable test results for an R134a cylinder is:

<b>R134a</b>	<b>100%</b>
<b>R12</b>	<b>0.0%</b>
<b>R22</b>	<b>0.0%</b>
<b>HC</b>	<b>0.0%</b>
<b>Air/Non</b>	<b>0.0%</b>

As a result of this testing, the following chart demonstrates the typical results when detecting small amounts of R40 mixed with R134a.

<b>10% R40, 90%R134a</b>					
<b>Model</b>	<b>R134a</b>	<b>R12</b>	<b>R22/Other</b>	<b>HC</b>	<b>Air/Non</b>
<b>Ultima ID DX Series</b>	100%	0%	0%	0%	4.1%
<b>Ultima ID HV Series</b>	100%	0%	0%	0%	4.1%
<b>Robinair 16910</b>	100%	0%	0%	0%	3.6%
<b>ID Jr./Robinair 16900</b>	FAIL	N/A	N/A	N/A	N/A
<b>ACR-2000</b>	98.5%	0%	0%	1.5%	3.4%

*Other models such as the Mini ID R134a, Robinair 16009 and Ultima ID Pro are not suitable for detection of 10% R40 Contaminants.*

<b>20% R40, 80%R134a</b>					
<b>Model</b>	<b>R134a</b>	<b>R12</b>	<b>R22/Other</b>	<b>HC</b>	<b>Air/Non</b>
<b>Ultima ID DX Series</b>	97.5%	0%	0%	2.5%	N/A
<b>Ultima ID HV Series</b>	97.5%	0%	0%	2.5%	N/A
<b>Robinair 16910</b>	97.6%	0%	0%	2.4%	N/A
<b>Ultima ID Pro</b>	96.8%	0%	0%	3.2%	N/A
<b>ID Jr./Robinair 16900</b>	FAIL	N/A	N/A	N/A	N/A
<b>ACR-2000</b>	96.7%	0%	0%	3.3%	10.0%

*Other models such as the Mini ID R134a and Robinair 16009 are not suitable for detection of 20% R40 Contaminants.*

\*Proper precautions should always be taken when working with refrigerants.