



RSC Sniffer-Detector Calibrators

The RSC Model CALIBRATORS FOR SNIFFER-TYPE REFRIGERANT LEAK DETECTORS

VTI's new RSC Sniffer Calibrator is easier to operate, works for years without clogging or refilling and is a fraction of the price of other Refrigerant Leak Standards. It is available only for R134a refrigerant.

The RSC is calibrated by VTI's A2LA Accredited calibration laboratory and is available either with or without NIST-Traceable documentation depending upon your requirements.

The RSC has several user-friendly features that make it an exceptional value. This Refrigerant Sniffer Calibrator is built permanently onto the common small refrigerant can of R134a, thus providing a lifetime supply of refrigerant (at typical leak rates). Also, it features a permeation-type leak element that is not susceptible to the plugging problems that can occur with the capillary leak elements used in many refrigerant leak standards.

The RSC leak standard has a 1/4-in. I.D. recess with a tapered bottom to accept a variety of sniffer probe designs and provide repeatable results and 100% gas collection. This "point-source" design for the gas flow assures that refrigerant vapor will not accumulate in "dead spaces" and cause false high readings during detector calibration, which can later result in "passing" bad product.



Choosing the RSC Calibrator

- WILL NOT CLOG - permeation leak element.
AVAILABLE REFRIGERANT - R134A only.
FIVE LEAK RATE RANGES - you can choose.
WIDE LEAK-RATE CHOICE - 0.1 to 2 oz/year.
NEVER NEEDS REFILL - lasts for years.
SIMPLE TO OPERATE - minimal user training.
NO FALSE READINGS - no large dead spaces.
EASY PROBE LOCATION - repeatable results.
MEETS ISO REQUIREMENTS - NIST-traceable, A2LA-accredited Calibration (Certificate optional).



The RSC is an economical solution for the calibration of sniffer detectors in plant and field applications.

VTI's Calibration Laboratory is Accredited by the American Association for Calibration Laboratory Accreditation. Certificate No. 1707.01

As the major manufacturer of Calibrated Leaks for all gases, all leak rates, and all makes of leak detectors, VTI supplies them worldwide to users, distributors, and other manufacturers. These Accu-Flow™ Leak Standards are recognized internationally for their superior quality construction and calibration.



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ORDERING INFORMATION

The RSC Calibrator can only be ordered for R134a Refrigerant and for the range of leak rate ranges detailed below. When ordering or requesting a quotation, please provide the Part Number and also confirm the Leak Rate Range requested using the full description of the rate and the units (for example: 0.04 to 0.10 ounce/year). The Leak Rate provided will be within this manufacturing-variance range and the actual rate, as calibrated, will be recorded on the refrigerant canister label. If you have any technical or ordering questions, please contact us for assistance.

PART NUMBER BUILD-UP

The RSC Part Numbers are constructed as follows:

RSC-XXXX-R134A

where **XXXX** = the code for the Leak Rate range required,
and **R134A** = the code for the Refrigerant.

The leak rate units, codes and ranges (in both ounces per year and grams per year) available are listed in the table below.

LEAK RATES UNITS AND LEAK RATES AVAILABLE

LEAK CODES	Manufacturing Variance (oz/yr)	Manufacturing Variance (g/yr)	Example Part Number
0.1 oz or 3G	0.04 to 0.1 oz/yr	1 to 3 g/yr	RSC-0.1oz-R134A
0.25 oz or 7G	0.1 to 0.25 oz/yr	3 to 7 g/yr	RSC-7G-R134A
0.5 oz or 14G	0.25 to 0.5 oz/yr	7 to 14 g/yr	RSC-0.5oz-R134A
1.0 oz or 28G	0.5 to 1.0 oz/yr	14 to 28 g/yr	RSC-28G-R134A
2.0 oz or 85G	1.0 to 3.0 oz/yr	28 to 85 g/yr	RSC-3.0oz-R134A

NOTE: The final Leak Rate, as manufactured and calibrated, is then provided on your Calibration Certificate and on the refrigerant canister label. The certificate will be supplied using the units (oz/y or G/y) specified when ordering the calibrator.

TECHNICAL INFORMATION

VTI's RSC Refrigerant Sniffer Calibrator utilizes a permeation-type leak element to control the flow rate (leak rate). Under the influence of the concentration difference of the R134a from the reservoir side of the leak element to the exhaust side, the refrigerant diffuses through the element, yielding a precise, equilibrium flow rate. This well-defined flow rate is then calibrated by VTI, and subsequently is used to calibrate sniffer-type refrigerant leak detectors. Different leak rates are achieved using design variations developed by VTI.



Calibrated Leaks – VTI makes them all !!