



### The FSLTL Model CALIBRATORS FOR SNIFFER-TYPE REFRIGERANT LEAK DETECTORS

*The FSLTL Refrigerant Leak Standards have been developed specifically to calibrate sniffer leak detectors and to avoid the clogging problems common to Calibrators that have a capillary leak element. This is particularly important for small leak rates of 0.5 ounce/year and less.*

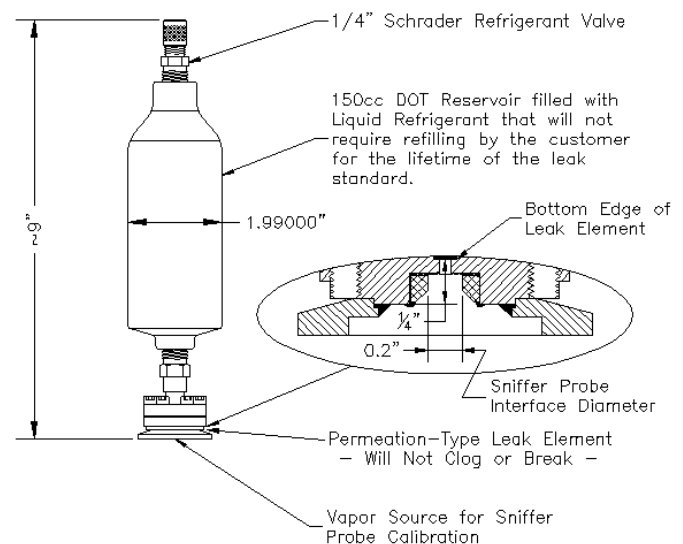
*The FSLTL Accu-Flow™ Calibrated Leaks are available for all old and new refrigerants, for a wide range of standard leak rates from 0.1 to 3 oz/year, and for custom rates. They can be used with all makes of leak detectors.*



### Choosing the FSLTL Calibrator

- WILL NOT CLOG - permeation leak element.
- SPECIFY ANY REFRIGERANT - old or new one.
- FIVE LEAK RATE RANGES - you can choose.
- WIDE LEAK-RATE CHOICE - 0.1 to 3 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 Certification.

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.



**Diagram illustrating FSLTL configuration and interface details**

*The "point-source" design for the gas flow assures that excessive refrigerant vapor will not accumulate in "dead spaces" to cause erroneous high readings during detector calibration, which can later result in "passing" bad product.*



**VTI's Calibration Laboratory is Accredited by the American Association for Calibration Laboratory Accreditation.**

**Certificate No. 1707.01**



# REFRIGERANT CALIBRATED LEAK STANDARDS

## FSLTL Sniffer-Detector Calibrators

### ORDERING INFORMATION

*The FSLTL Calibrators can be ordered for almost any Refrigerant and for a wide range of leak rate ranges. 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 Calibration Tag. If you have any technical or ordering questions, please contact us for assistance..*

### PART NUMBER BUILD-UP

The FSLTL Part Numbers are constructed as follows:

**FSLTL-XXXX-YYYY**

where **XXXX** = the code for the Leak Rate required,

and **YYYY** = the "R" code of the Refrigerant required.

The leak rate units, codes and ranges available are listed in the table below, and common Refrigerants and their "R" codes are listed in the Table to the right.

### REFRIGERANTS AVAILABLE

Most Refrigerants - old and new - in use today are available in FSLTL Leaks.

Common Examples:

<b>R12</b>	<b>R134a</b>	<b>R407C</b>	<b>R502</b>
<b>R22</b>	<b>R404A</b>	<b>R410A</b>	<b>R507</b>

*(Also, Halons and Sulfur Hexafluoride)*

### LEAK RATES UNITS AND LEAK RATES AVAILABLE

<b>COMMON UNITS</b>	<b>Abbreviation used In part Number</b>	<b>Manufacturing Variance</b>	<b>Example Part Number</b>
<b>ounces/year (OZ)</b>	0.1 OZ	0.04 to 0.1 oz/yr	FSLTL-0.1oz-R134A
	0.25 OZ	0.1 to 0.25 oz/yr	FSLTL-0.25oz-R22
	0.5 OZ	0.25 to 0.5 oz/yr	FSLTL-0.5oz-R410A
	1.0 OZ	0.5 to 1.0 oz/yr	FSLTL-1.0oz-R407c
	3.0 OZ	1.0 to 3.0 oz/yr	FSLTL-3.0oz-R134A
<b>grams/year (G)</b>	3 G	1 to 3 g/yr	FSLTL-3G-502
	7 G	3 to 7 g/yr	FSLTL-7G-R134A
	14 G	7 to 14 g/yr	FSLTL-14G-R22
	28 G	14 to 28 g/yr	FSLTL-28G-R404A
	85 G	28 to 85 g/yr	FSLTL-85G-R134A

*Higher leak rates up to 10oz/yr can be custom ordered.*

The final Leak Rate, as manufactured and calibrated, is then provided on your Calibration Certificate and Tag.

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