



LS-X Calibration Workstation

Video Demonstration 
(www.htproducts.co.uk/demo)

KEY FEATURES

- **High Precision, Variable Reference Leak.**
- **Cooling Industry Award Winning Technology (2009)**
- **Graph and Equation provided for Accurate Flow Selection.**
- **63mm Gauge for Accurate Pressure Readout.**
- **Multiple Point Calibration with Traceability to National Standards**

- Certification available for traceability and record keeping (ISO9001, ISO17025 etc.).
- 1/4" SAE connection to recharge from a standard bulk supply.
- Fulfil the requirements of current FGas legislation (EN14624, SAE J1627).
- Individual calibration and NIST traceable flow certification.
- RAC Cooling Industry Award winning technology (2009).
- Designed and Manufactured in the UK.

APPLICATION

Laboratory precision, comprehensive traceability, full solution for detailed flow measurement.

The LS-X is a comprehensive adjustable leak unit suitable for use in calibration laboratories and standards rooms where a wide range of accurate flow rates are required. The front panel includes a port where the leak element is housed to allow a detector probe to be directly attached to the leak body, minimising any interference or inaccuracy. The leak element has a 1/8" BSP thread which can be used to attach a hood or fitting (please enquire) to set the distance of a detector's probe from the leak source and increase the repeatability of measurements .

The unit includes a rechargeable, stainless steel reservoir of 100cc capacity for a selected gas and high integrity regulator for fine adjustments to pressure and accurate control, over the output flow rate.

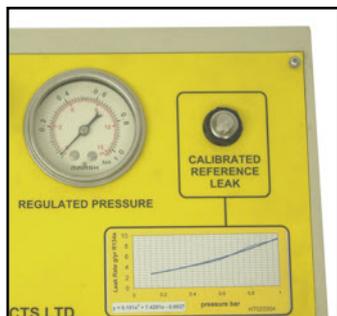
Along with a Certificate of Calibration across a full range of flow rates (typically 1-15 grams per year for refrigerant gases) the LS-X is supplied with a Graph specific to the gas and calibration. The graph provides details of the relationship between the gauge pressure and the output flow rate for a specified gas.

- **SUITABLE FOR:**
Standards Room
Production Line Tests
Research & Development
Training Presentations
In-House Detector Calibrations
- Find the minimum sensitivity of a detector to compare its performance with other models.
- **KITS AVAILABLE :**
Carry cases, FGas Labels, Multiple gas calibrations, charging equipment and other accessories.

LS-X: REGULATED REFERENCE LEAK - TECHNICAL NOTES

The LS-R implements a fixed regulator to stabilise the gas supplied to the leak element. It's main function is to eliminate any changes in bottle pressure caused by temperature giving a stable operating condition for the leak even in difficult environmental conditions. Dropping the pressure from the full vapour pressure of the refrigerant also allows the leak itself to be made larger and allows an increase in precision as well as greater scope for fine tuning to specific flow rates and gases when compared with other reference leak technologies.

Extensive research and investigation into low flow metrology over the last 30 years has given HT Products a wealth of test data and calibration records to draw from. Combined with years of practical leak detection experience in the vacuum industry the products deliver the benefits of scientific precision and the low cost demands of the service sector.



Optional Recharge Port:
7/16" UNF Schrader

SPECIFICATIONS

Max Fill Pressure:	16 Bar
Recharge Fitting:	1/4" SAE (with Schaefer Valve)
Weight:	1300 grams
Dimensions:	165 x 262 x 78 (L x W x H)
Available Gases:	R134a, R404a, R600a, R407c, R290, R22, B7
Available Flow Rates:	Variable : Choose Minimum Value (0.5 - 20 g/Yr)
Recalibration Period:	12 Months

PRODUCT OPTIONS

HT9-LSX-XXX-YYY	LS-X (XXX = Gas YYY = Minimum Flow Rate (Grams /Year))
HT9-LSX2-XXX-YYY-ZZZ	LS-X with Additional Calibration Gas (XXX = Gas 1, YYY = Gas 2, ZZZ = Flow)

ACCESSORIES / SPARES

HT9-FILL-SAE-1000	1/4" SAE Fill Line 1m
HT9-LS4RC-XXX-YYY	Extra Leak Element for LS-R with Certification Traceable to National Standards
HT9-LSX-B	LS-X Replacement Chassis, Grey Plastic Plastic with Aluminium Panel.

KITS / BUNDLES



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Due to our continuing program of product improvements, all details are subject to change without notice.
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