

SEDEX LT-ELSD™

LOW TEMPERATURE EVAPORATIVE
LIGHT SCATTERING DETECTORS

SEDEX 100LT

THE BENCHMARK LT-ELSD™ FOR
HIGH-PERFORMANCE (U)HPLC AND SFC



35 YEARS OF EVOLUTION

sedere

Parc du Moulin - 841 Bd Duhamel du Monceau
45160 Olivet - France

Tel: +33 2 38 66 84 47 - Email: info@sedere.com

www.sedere.com



SEDEX 100LT — THE BENCHMARK LT-ELSD™ FOR HIGH-PERFORMANCE (U)HPLC AND SFC

ELSD standard



The SEDEX 100LT represents the pinnacle of Low-Temperature ELSD performance for HPLC, U-HPLC and SFC. Delivering exceptional sensitivity, reliability and analytical accuracy, it provides truly universal detection — revealing compounds that UV, RI or MS cannot detect without complex conditions or ionization requirements.



Built on SEDERE's unrivalled Low-Temperature technology, the SEDEX 100LT captures virtually all analytes, regardless of chromophore or electroactive group. Its advanced optical and electronic architecture ensures maximum performance while maintaining a highly competitive price point.



Fully compatible with any LC or SFC system, the SEDEX 100LT can be operated directly from the front panel or seamlessly integrated into chromatography software through a wide range of dedicated drivers. Remote shutdown automatically switches off the gas, heater, photomultiplier and light source at the end of a sequence, reducing costs and extending system lifetime. Complete SOPs are provided for full GLP compliance and straightforward validation.



True Low-Temperature evaporation for superior sensitivity



Universal detection for virtually all analytes — no chromophore needed



Advanced optical and electronic engineering for best-in-class performance



SAGA prevents signal saturation and delivers an extended dynamic range.

Components	
Detection	SAGA™ enabled Photodiode
Light source	Class I Blue Light Laser (450 nm, 1.69W) with elapsed time counter
Temperature range	Ambient to 100°C
Nebulizers	HPLC, U-HPLC, SFC
Eluent flow rate	100 µL/min to 5 mL/min
Typical sensitivity	250 pg
Data	
Analog output	0-1 Volt
Gain settings	1 to 7
Filter	Dedicated numerical algorithm
Signal amplification	SAGA™ or fixed gain
Data rate	100 Hz
Communication	
Display and selection	OLED display and keypad
Events	Contact closure, TTL for ready, autozero
Powerdown methods	Shut-off: gas, light source, heating, and/or photodiode cleaning mode
Computer interface	USB, RS-232
Software	Drivers (option)
External requirements	
Power	100 V to 240 V (50 Hz / 60 Hz)
Gas supply	Nitrogen or air 3.5 bar (less than 3 L/min)
Dimensions	250 mm (10 in) W / 330 mm (13 in) H / 530 mm (21 in) D
Weight	15.5 kg (34 lb)



Choose the ideal nebulizer: a complete range covers flowrates from 100µL/min to 5mL/min



Remote automatic shutdown to reduce consumables and protect components



IQ/OQ/PQ documentation included for GLP and validation procedures



Local or PC-controlled operation for maximum flexibility

SEDERE is committed to user satisfaction with every SEDEX detector



Worldwide distribution



On-site installation and training



Full qualification protocol



User seminars, on and off-site



Technical application and support



Web-access to application database



Flexible contract options



Spare parts and accessories