

ELD500 PRECISION LEAK DETECTOR



The ELD500 precision leak detector is designed for fast, accurate leak detection in a wide range of applications, fully mobile and with an easy to control interface. Featuring with low energy consumption, extended warranty and even longer life ion source, Edwards ELD500 leak detector ensures exceptional low cost of ownership with no compromise on performance.

Available in three variants: FLEX, WET and DRY, Edwards ELD500 leak detector is versatile. All models feature a rugged turbomolecular pump optimised for the rigours of portable leak detection, ideal across all applications.



PRODUCT FEATURES

FLEXIBLE REMOTE CONTROL OPTIONS

Colour touch screen control with local graphical display and audible leak detection. Wireless models allow simultaneous control of up to 10 leak detectors.

MOBILE SOLUTION

Low weight and integrated carry handles which allow it to be bench top or trolley mounted.

HIGH SENSITIVITY

Measurement of leaks for Helium of $<5 \times 10^{-12}$ mbar ls^{-1} in vacuum mode and $<7 \times 10^{-9}$ mbar ls^{-1} in sniffer mode.

CUSTOMISABLE FOR ANY APPLICATION

- WET version with an integrated oil sealed rotary vane pump
- DRY version with an integrated helium optimised diaphragm pump
- FLEX version without a primary pump.

PARTIAL FLOW KIT

Allows effective pump down of large of contaminate flows compatible with WET and FLEX variants.

ACCURATE PIN-POINTING OF LEAKS

Standard sniffer line enables operation up to 4m from the ELD500. Longer sniffer lines of up to 50m can be used with the sniffer extender interface.

LONG TERM STABILITY

Ensured by class leading 180° mass spectrometer.

Technical data

ELD500 Leak Detector	Units	WET	DRY	FLEX
Lowest detectable helium leak rate				
Vacuum operation	mbar ls ⁻¹	≤ 5 x 10 ⁻¹²	≤ 3 x 10 ⁻¹¹	≤ 5 x 10 ⁻¹²
Sniffer operation	mbar ls ⁻¹	≤ 7x10 ⁻⁹	≤ 7x10 ⁻⁹	≤ 7x10 ⁻⁹
Maximum measurable helium leak rate				
Vacuum operation	mbar ls ⁻¹	> 0.1	> 0.1	> 0.1
Measurement ranges	decades	12	12	12
Maximum permissible inlet pressure	mbar	15	15	15
Pumping speed during pumpdown, 50 Hz/60 Hz	m ³ h ⁻¹	2.5/3	1.6/1.8	N/A
Helium pumping speed in the fine mode	ls ⁻¹	3.1	3.1	3.1
Time constant for leak rate signal	s	< 1	< 1	< 1
Time until ready for operation	min	≤ 2	≤ 2	≤ 2
Power consumption	VA	420	350	200
Inlet flange		NW25	NW25	NW25
Dimensions (WxHxD)	mm	495x456x314	495x456x314	495x456x314
Weight	kg	40	35.5	30

Ordering information

Product description	Order number
ELD500 WET, 200-240V,50/60Hz	D13510903
ELD500 WET, 100-120V, 50/60Hz	D13510904
ELD500 WET, 100-120V, 60Hz	D13510906
ELD500 DRY, 200-240V,50/60Hz	D13520903
ELD500 DRY, 100-120V, 50/60Hz	D13520904
ELD500 DRY, 100-120V, 60Hz	D13520906
ELD500 FLEX, 100-240V,50/60Hz	D13530000
ELD500 RC - wired - remote control	D13550100
ELD500 RC - wireless - remote control	D13550110
ELD500 RC - wired - 8m extension cable	14022
ELD500 RC - wireless - extra transmitter	D13550130
ELD500 SL - standard sniffer line 4m	D13550300
ELD500 SL - extended SL Interface	D13550200
ELD500 SL - extended sniffer line 5m	14008
ELD500 SL - extended sniffer line 20m	14009
ELD500 SL - extended sniffer line 50m	12183
ELD500 partial flow adaptor	D13550400
ELD500 transport case	D13550500
ELD500 mobile trolley	D13550630
ELD500 auto-start cable	D13550631
ELD500 SG - helium spray gun	16555
CL-internal calibrated leak	D13550910
CL-cal leak bspk. 0.5 - 1E-7. screw skt	D13550930
CL-calibrated leak HE 4 to 6	D13550950
CL - calibrated leak He 8	D13550943

