



Leybold UL-500

Technical Specifications

1.2.1 Physical Data

Max. measurable helium leak rate	10 mbar·l·s ⁻¹
Max. indicatable helium leak rate (qualitative measurement)	10 ³ mbar·l·s ⁻¹
Min. measurable leak rate with time constant	2·10 ⁻¹⁰ mbar·l·s ⁻¹ < 1 s
Max. inlet pressure	
for quantitative measurement	100 mbar
for qualitative measurement	1000 mbar
Max. total gas flow at inlet with limit of detection	
2·10 ⁻¹⁰ mbar·l·s ⁻¹	0.1 mbar·l·s ⁻¹
1·10 ⁻⁹ mbar·l·s ⁻¹	0.5 mbar·l·s ⁻¹
5·10 ⁻⁵ mbar·l·s ⁻¹	400 mbar·l·s ⁻¹
Time until ready to display	≤ 5 min
Detectable masses	2, 3, 4 amu
Pumpdown times until ready for leak detection	
without additional volume	6 s
with test-object volume 1 l	6 s
with test-object volume 50 l	150 s
Response times	
up to test-object volumes of 10 l	≤ 1 s
up to test-object volumes of 50 l	≤ 5 s
permissible temperature range	10 to 40 °C
Display capabilities for leak rate:	
Quasi-analog display for leak rate:	
360 ° circular indicator, with logarithmic scale,	
1 decade per revolution,	
45 segments correspond to 5 % resolution of indicated value	
Bar scale for leak rate exponent	
exponent display from -10 to +3	
Digital display for leak rate	2 digits, 2-digit exponent, sign
Units displayed	ppm mbar·l·s ⁻¹ Atm·cc·sec ⁻¹ (US unit) Pa·m ³ ·s ⁻¹

Noise when running	max. 58 dBA
Dimensions (H x W x D)	110.5 x 62.7 x 77.5 cm
Weight (with auxiliary pump TRIVAC D 25 B)	205 kg
Cat.No.	155 85

1.2.2 Electrical Data

Mains voltage, convertible	100 V, 110 V, 127 V ± 5 % 200 V, 208 V, 220 V, 240 V, 380 V ± 5 %
Mains frequency	50/60 Hz
Nominal power	P _N = 2.2 kW
Max. turn-on power	P _S = 5.5 kW
Mains connection for QUICKTEST	220 V a.c.

Caution This connection **always** carries **220 V a.c.** independently of the mains voltage.



Recorder output	For recorder with an internal resistance of min. 2.5 kΩ
1. Leak rate, linear	1.0 - 9.9 V per decade
Leak rate exponent	0.5 V per decade beginning with 1 V at 10 ⁻¹⁰ mbar·l·s ⁻¹
2. Leak rate, logarithmic	0.5 V per decade beginning with 1 V at 10 ⁻¹⁰ mbar·l·s ⁻¹
3. Inlet pressure and fore pressure, logarithmic	0.5 V per decade beginning with 1 V at 10 ⁻³ mbar
Headset output	internal resistance of headset output power
	min. 8 Ω, max. 500 mW