

Vario Technical Information

Technical data		PHOENIX Vario
Smallest detectable helium leak rate		
Vacuum operation	mbar · l · s ⁻¹	≤ 5 · 10 ⁻¹²
Sniffer mode	mbar · l · s ⁻¹	< 1 · 10 ^{-9 1)}
Smallest detectable hydrogen leak rate		
Vacuum operation	mbar · l · s ⁻¹	≤ 1 · 10 ⁻⁸
Sniffer mode	mbar · l · s ⁻¹	< 1 · 10 ⁻⁷
Units of measurement (selectable)		
Pressure		mbar, Pa, atm, Torr
Leak rate		mbar · l · s ⁻¹ , Pa · m ³ · s ⁻¹ , Torr · l · s ⁻¹ , atm · cc · sec ⁻¹ , sft ³ /yr
Sniffer mode		ppm, g/a eq, oz/yr eq
Leak rate display area	mbar · l · s ⁻¹	1 · 10 ⁻¹² to 1 · 10 ⁻¹
Max. inlet pressure	mbar	15
with partial flow pump set	mbar	1000
Pumping speed during evacuation process		
50 Hz	m ³ · h ⁻¹	Depending on chosen backing pump
60 Hz	m ³ · h ⁻¹	
Helium pumping speed in vacuum mode		
GROSS Modus	l/s	
FINE Modus	l/s	
ULTRA Modus	l/s	> 3,
Time constant of the leak signal (blank flanged, 63% of the final value)		
	s	< 1
Run-up time (after switching on)		
	s	≤ 110
Mass spectrometer		
		180° magnetic sector field
Ion source		
		2 yttrium/iridium long-term cathodes
Detectable masses		
	amu	2, 3 and 4
Test port		
		2 x DN 25 ISO-KF
Inlet flange		
	DN	25 ISO-KF
Dimensions		
	(W x H x D) mm	486 x 380 x 345
Weight		
	kg	30
Available languages		
		English, German, Chinese, Japanese (Katakana), Korean, Russian, French, Italian, Spanish and Polish