



Leybold Phoenix Quadro, Phoenix Magno, Phoenix Vario Technical Specifications

		PHOENIX Quadro	PHOENIX Quadro dry
Smallest detectable helium leak rate			
Vacuum operation	mbar · l · s ⁻¹		$\leq 5 \cdot 10^{-12}$
Sniffer mode	mbar · l · s ⁻¹		$< 1 \cdot 10^{-9}$ ¹⁾
Smallest detectable hydrogen leak rate			$\leq 1 \cdot 10^{-8}$
Vacuum operation	mbar · l · s ⁻¹		$< 1 \cdot 10^{-7}$
Sniffer mode	mbar · l · s ⁻¹		
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 , stf ³ /yr	
Sniffer mode			ppm, g/a eq, oz/yr eq
Leak rate display area	mbar · l · s ⁻¹		$1 \cdot 10^{-12}$ to $1 \cdot 10^{-1}$
Max. inlet pressure with partial flow pump set	mbar		15
	mbar		1000
Pumping speed during evacuation process			
50 Hz	m ³ · h ⁻¹	2.5	3.0
60 Hz	m ³ · h ⁻¹	3.0	3.0
Helium pumping speed in vacuum mode			
GROSS Modus	l/s	0.4	0.04
FINE Modus	l/s	1.2	1.2
ULTRA Modus	l/s	> 3.1	> 3.1
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			
Inlet flange	DN	25 ISO-KF	
Dimensions	(W x H x D) mm	495 x 475 x 319	
Weight	kg	45	35
		PHOENIX Magno	PHOENIX Magno dry
Smallest detectable helium leak rate			
Vacuum operation	mbar · l · s ⁻¹	$\leq 5 \cdot 10^{-12}$	$\leq 5 \cdot 10^{-12}$
Sniffer mode	mbar · l · s ⁻¹	$< 1 \cdot 10^{-9}$ ¹⁾	$< 1 \cdot 10^{-9}$ ¹⁾
Smallest detectable hydrogen leak rate		$\leq 1 \cdot 10^{-8}$	$\leq 1 \cdot 10^{-8}$
Vacuum operation	mbar · l · s ⁻¹	$< 1 \cdot 10^{-7}$	$< 1 \cdot 10^{-7}$
Sniffer mode	mbar · l · s ⁻¹		
Units of measurement (selectable)			
Pressure		mbar, Pa, atm, Torr	mbar, Pa, atm, Torr
Leak rate		mbar · l · s ⁻¹ , Pa · m ³ · s ⁻¹ , Torr · l · s ⁻¹ , atm · cc · sec ⁻¹ , stf ³ /yr	mbar · l · s ⁻¹ , Pa · m ³ · s ⁻¹ , Torr · l · s ⁻¹ , atm · cc · sec ⁻¹ , stf ³ /yr
Sniffer mode		ppm, g/a eq, oz/yr eq	ppm, g/a eq, oz/yr eq
Leak rate display area	mbar · l · s ⁻¹	$1 \cdot 10^{-12}$ to $1 \cdot 10^{-1}$	$1 \cdot 10^{-12}$ to $1 \cdot 10^{-1}$
Max. inlet pressure with partial flow pump set	mbar		15
	mbar		1000
Pumping speed during evacuation process			Depending on chosen backing pump
50 Hz	m ³ · h ⁻¹	15	5
60 Hz	m ³ · h ⁻¹	17	6
Helium pumping speed in vacuum mode			
GROSS Modus	l/s	< 8	< 3.5
FINE Modus	l/s	< 7	< 2
ULTRA Modus	l/s	> 3.1	> 3.1
Time constant of the leak signal (blank flanged, 63% of the final value)	s	< 1	< 1
Run-up time (after switching on)	s	≤ 110	≤ 110
Mass spectrometer		180° magnetic sector field	180° magnetic sector field
Ion source		2 yttrium/iridium long-term cathodes	2 yttrium/iridium long-term cathodes
Detectable masses	amu	2, 3 and 4	2, 3 and 4
Test port			2 x DN 25 ISO-KF
Inlet flange	DN	25 ISO-KF	25 ISO-KF
Dimensions	(W x H x D) mm	521 x 653 x 366	486 x 380 x 345
Weight	kg	67	56



PROVAC
SALES

PHONE: 831-462-8900 FAX: 831-462-3536 WWW.PROVAC.COM

Leybold Phoenix Quadro, Phoenix Magno, Phoenix Vario

Features & Benefits

- highest accuracy & reliability
- fastest helium pumping speed allows most efficient measurements
- consistent & convenient
- innovative touch screen with intuitive menu structure
- handy & portable, compact & low weight
- log in using wi-fi on smart phone or tablet
- easy internal & external data logging
- HDMI interface allows checking leaks from anywhere

Applications

- research & development • UHV • particle accelerators • space simulation
- industrial • metallurgy • electrical • analytical instruments • medical devices • food & packaging • automotive & aviation • semiconductor
- flat panel display

