

# Phoenix Magno Technical Information

Technical data	PHOENIX Magno		PHOENIX Magno dry
Smallest detectable helium leak rate			
Vacuum operation	mbar · l · s <sup>-1</sup>		≤ 5 · 10 <sup>-12</sup>
Sniffer mode	mbar · l · s <sup>-1</sup>		< 1 · 10 <sup>-9.1</sup>
Smallest detectable hydrogen leak rate			
Vacuum operation	mbar · l · s <sup>-1</sup>		≤ 1 · 10 <sup>-8</sup>
Sniffer mode	mbar · l · s <sup>-1</sup>		< 1 · 10 <sup>-7</sup>
Units of measurement (selectable)			
Pressure			mbar, Pa, atm, Torr
Leak rate			mbar · l · s <sup>-1</sup> , Pa · m <sup>3</sup> · s <sup>-1</sup> , Torr · l · s <sup>-1</sup> , atm · cc · sec <sup>-1</sup> , sft <sup>3</sup> /yr
Sniffer mode			ppm, g/a eq, oz/yr eq
Leak rate display area	mbar · l · s <sup>-1</sup>		1 · 10 <sup>-12</sup> to 1 · 10 <sup>-1</sup>
Max. inlet pressure	mbar		15
with partial flow pump set	mbar		1000
Pumping speed during evacuation process			
50 Hz	m <sup>3</sup> · h <sup>-1</sup>	15	5
60 Hz	m <sup>3</sup> · h <sup>-1</sup>	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
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		521 x 653 x 366
Weight			
	kg	67	56
Available languages			
			English, German, Chinese, Japanese (Katakana), Korean, Russian, French, Italian, Spanish and Polish