

Find your perfect PHOENIX



To become a top dog, you have to beat the rest of the pack. Meet our “noses” and their unbeatable features. Then decide which one suits your application best.

The new PHOENIX Quadro and Quadro dry

- Available with oil-sealed or dry backing pump
- Detection sensitivity improved by turbo pump's optimized helium pumping speed
- Pumping speed during evacuation from 2.5 m³/h up to 3 m³/h
- More data flexibility: USB and bus interface options

Technical data	PHOENIX Quadro	PHOENIX Quadro dry
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	2.5
60 Hz	m ³ · h ⁻¹	3.0
Helium pumping speed in vacuum mode		
GROSS Modus	l/s	0.4
FINE Modus	l/s	1.2
ULTRA Modus	l/s	> 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
Available languages		35 English, German, Chinese, Japanese (Katakana), Korean, Russian, French, Italian, Spanish and Polish

Order data	PHOENIX Quadro	PHOENIX Quadro dry
	Part no.	Part no.
PHOENIX Quadro EU 230 V, 50/60 Hz	250000V02	-
PHOENIX Quadro US 115 V, 60 Hz	251000V02	-
PHOENIX Quadro JP 100 V, 60 Hz	251100V02	-
PHOENIX Quadro 100 – 240 V, 50/60 Hz	-	250001V02
PHOENIX Magno EU 200 – 230 V, 50/60 Hz		
PHOENIX Magno JP/US 100 – 115 V, 50/60 Hz		
PHOENIX Vario		

¹⁾ Depending on the used sniffer line and ambient conditions. Leak rate display after zero: 1·10⁻⁸ mbar·l/s when using the SL 300 or SL 301 Sniffer line.

Accessories

Accessories for PHOENIX Quadro, PHOENIX Magno und PHOENIX Vario



Partial flow system without pump

Partial Flow System

with following advantages:

- Faster response
- Start of measurement mode already at 1000 mbar inlet pressure.
- Faster venting of large test objects or leak detection of mass production.

Equipment:

Valve block (with inlet valve, venting valve, bypass or purging valve) plus right-angle bellows valve DN 25 ISO-KF made of stainless steel, solenoid drives, suited for remote control by the PHOENIX.

The partial flow systems are available without pumps.



Search gas spray gun

Search Gas Spray Gun

The search gas spray gun with PVC hose (5 m long) is used for well aimed spraying of search gas at places where a leak is suspected.

PHOENIX Transport Case

For impact protected transportation of the PHOENIX; complete with strong carrying handles and plastic castors. Separate case for accessories.

PHOENIX Wi-Fi Antenna

The PHOENIX Quadro series can be controlled conveniently via any mobile terminal such as tablet PC or smartphones, without the installation of a software or app. In order to be able to use the Wi-Fi function, a PHOENIX Wi-Fi antenna is available.



Interface module

PHOENIX interface modules for the use of other interfaces.

The modules can be mounted directly on the device or be placed in a control cabinet or similar by the customer via a cable connection.

The appropriate cables are available in various lengths.

The PHOENIX IO interface features the following:

- PLC IN
- PLC OUT
- ANALOG OUT
- RS232

The PHOENIX bus interface is available for:

- Profibus
- ProfiNet
- DeviceNet
- Ethernet I/P

PHOENIX Vario connector

A matching connector for the electrical connection between the leak detector and fore vacuum pump is available in order to control the vacuum pump directly via the PHOENIX Vario.