



# PHOENIX L300i

## The best in class leak detector

Our PHOENIX L300i is the most reliable leak detector in the market.\*  
And because we know that, we offer a two year warranty on the product  
and a three year warranty on the ion source by default.

**2 YEAR  
WARRANTY ON  
THE VACUUM  
SYSTEM AND  
COMPONENTS**

**3 YEAR  
WARRANTY  
ON THE ION  
SOURCE**



**BEST  
IN CLASS  
FEATURES!**

### Improve your product quality and reliability:

- Smallest detectable leak rate  
> Find even the smallest leaks
- Best long term stability  
> High repeatability and accuracy
- Most accurate calibration  
> Avoid measurement deviations over time

### Save time and money with the highest speed:

- Highest helium pumping speed in fine mode  
> Fastest response time
- Fastest measurement readiness  
> Don't lose time and start measuring immediately
- Fastest internal calibration  
> Fast test cycles

\* Comparison against other portable helium leak detectors between 15kg and 56kg based on laboratory tests and long term tests.

# TECHNICAL HIGHLIGHTS

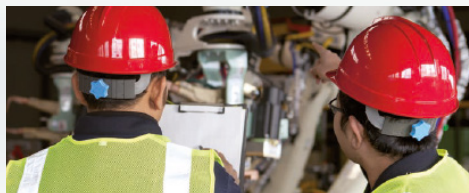
PHOENIX L300i (250000V01, 251000V01, 251100V01)

Minimum detectable helium leak rate Vacuum mode	mbar x l x s <sup>-1</sup>	≤ 5 x 10 <sup>-12</sup>
Leak rate measurement range	mbar x l x s <sup>-1</sup>	1 x 10 <sup>-12</sup> to 1 x 10 <sup>-1</sup>
Measurement ranges		12 decades
Max. inlet pressure	mbar (Torr)	15 (11.25)
Pumping speed (helium) at the inlet GROSS mode	l/s	0.4
FINE mode	l/s	> 3.1
Time constant of the leak rate signal (blanked off, 63% of final value)	s	> 1
Run-up time (after starting)	min	≤ 2
Mass spectrometer		180° magnetic sector field
Ion source		2 filaments; iridium/yttria-oxide
Detectable masses	amu	2, 3 and 4
Inlet port	DN	25 ISO-KF
Weight	kg (lbs)	40.0 (88.2)
Available languages		English, German, Chinese, Japanese, (Katakana), Russian, French, Italian, Spanish and Polish

Stay as flexible as possible and choose the PHOENIX L300i MODUL with the suitable fore vacuum pump for your application:

		with 1-stage Rotary Vane Pump	with 1-stage Rotary Vane Pump	with Scroll Pump
Minimum detectable helium leak rate Vacuum mode	mbar x l x s <sup>-1</sup>	≤ 5 x 10 <sup>-11</sup>	≤ 5 x 10 <sup>-12</sup>	≤ 8 x 10 <sup>-12</sup> / ≤ 5 x 10 <sup>-12</sup>
Sniffer mode	mbar x l x s <sup>-1</sup>	< 7 x 10 <sup>-9</sup>	< 7 x 10 <sup>-9</sup>	< 7 x 10 <sup>-9</sup>
Max. permissible inlet pressure with partial flow system	mbar (Torr) mbar (Torr)	15 1000	15 1000	15 1000
Pumping speed during the evacuation process with the pump (50 Hz) SOGEVAC SV 16 D	m <sup>3</sup> x h <sup>-1</sup> (cfm)	14.5	–	–
SOGEVAC SV 28 BI	m <sup>3</sup> x h <sup>-1</sup> (cfm)	23	–	–
SOGEVAC SV 40 BI	m <sup>3</sup> x h <sup>-1</sup> (cfm)	40	–	–
TRIVAC D 16 B	m <sup>3</sup> x h <sup>-1</sup> (cfm)	–	16	–
TRIVAC D 25 B	m <sup>3</sup> x h <sup>-1</sup> (cfm)	–	26	–
SCROLLVAC SC 15 D	m <sup>3</sup> x h <sup>-1</sup> (cfm)	–	–	13
SCROLLVAC SC 30 DL	m <sup>3</sup> x h <sup>-1</sup> (cfm)	–	–	26

**For further technical information  
please refer to our product  
catalog or contact our sales team!**



We support our customers in defining the technical requirements and setting up the leak detection system. We join the after sales process and support with our know how and rental equipment for the unlikely event of the leak detector needing an unexpected service.

## Branch office in the USA

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### Cart for PHOENIX L300i

- Robust cart for mobile applications
- Perfect for module version, pump can be mounted in the cart



### Remote Control RC310

- With 4m connection cable or wireless up to 100m distance
- For mobile use of the leak detector
- Data logging via USB



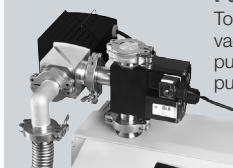
### Transport case for PHOENIX

- For safe transport in a car or plane
- Perfect when used in service and has to be transported frequently



### Sniffer Line SL300

- For sniffer applications
- With status LED and zero push button



### Partial flow system

To connect an additional fore vacuum pump for a higher pumping speed and faster pump downs



### Leak Test Standards

Various leak rates for all customer applications



### Search gas spray gun

For spraying helium and local testing



### Sniffer Line SL301

Cost-effective version without LED and zero push button



### Quick test

For high distance sniffer applications (up to 50m!) to accelerate the helium signal

