



 ASM 310

**Portable Helium Leak Detector.
Combining ultralight Weight and superior Performance.**

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New era in leak detection

Ever since the advent of helium leak detection technology, portable employment of leak detectors had been limited due to unit weights of more than 40 kg and volumes of around 70 liters. But now the rules are changing.

Revolutionary advance

The challenge was to design a helium leak detector that combines superior performance, small footprint, compact size, user-friendliness, long maintenance intervals as well as light weight and portability without any compromises.

The ASM 310 is the result. Offering high performance wherever it is needed and integrated into a package that has only half the weight, half the footprint and half the size of standard desktop helium leak detectors.

Its clean, oil-free pumping system makes the ASM 310 the perfect choice for leak-test maintenance of systems that do not tolerate any contamination. It offers unrivaled performance in leak detection applications where portability is key:

- Highly sensitive leak detection in vacuum production systems for semiconductors, coating and solar industry
- Ease of use and measurement in confined spaces, such as accelerator systems for medical and R&D applications
- Convenient handling in industrial environments such as power stations and chemical plants
- A reliable travel companion, ideal for leak detection service providers



Semiconductors



Analytical instrumentation
and research



Industry



Electric power

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Powerful

Highly compact and light in weight, the ASM 310 is a robust helium leak detector that requires only a minimum of maintenance.

Superior performance

- Roughing capacity 1.7 m³/h
- Pumping speed for He 1.1 l/s
- Inlet pressure 15 mbar
- Minimum detectable leak rate 5 · 10⁻¹² mbar l/s

User friendly

The control panel incorporates magnets, enabling it to be positioned on a metallic support.

The unique color touchscreen display can be customized to allow users to see only what they need to see in connection with their specific task. The menu is password-protected to safeguard against tampering with the unit's settings.

SD card storage capabilities

- Data storage: bitmap or text files for easy documentation and post-processing of leak test results
- Parameter settings: dedicated parameter sets for leak test conditions of specific parts, individual parameter sets for operators and master users

Light weight and universal voltage enable the ASM 310 to be easily operated anywhere in the world. A transport case to safeguard against shipping damage as well as a trolley are available as accessories.



Can be operated in any position



Highly portable with retractable handle



Detachable control panel (with approx. 2 m cable)

Technical data

Portable Helium Leak Detector	ASM 310
Test methods	Vacuum and sniffing leak detection
Minimum detectable leak rate for He (vacuum leak detection)	$5 \cdot 10^{-12}$ mbar l/s
Minimum detectable leak rate for He (sniffing leak detection)	$1 \cdot 10^{-7}$ mbar l/s
Tracer gases	^4He , ^3He , H_2
Maximum inlet test pressure	15 mbar
Roughing capacity	1.7 m ³ /h
Pumping speed for He at inlet	1.1 l/s
Inlet port	DN 25 ISO-KF
Warm-up time (20°C)	< 2 min. (< 3.5 with autocalibration)
Response time (sniffing leak detection)	< 1 s
Interface	RS-232, analog
I/O interfaces	Digital input Analog output (mantissa) Analog output (exponent)
Dimensions	350 x 245 x 414 mm (14 x 10 x 16 inches)
Weight	21 kg (46 lbs)
Universal voltage	100-240 V AC - 50/60 Hz
Maximum power consumption	300 VA
Helium background suppression	Auto / Manual
User interface	Color touchscreen
Selectable languages	English, French, German, Italian, Spanish, Russian, Japanese, Chinese, Korean

Order number

Portable Helium Leak Detector	ASM 310
	BSAA0000MM9A

Order numbers accessories

Accessories	Order number
Country-specific power cables	
UK	104411
Italy	104758
Switzerland	103718
Remote control	
Leak rate in mbar l/s, front panel in English	106688
Leak rate in Torr l/s, front panel in English	108881
Leak rate in Pa m ³ /s, front panel in English	108880
Leak rate in Pa m ³ /s, front panel in Japanese	106690
Sniffer probe	
5 m hose length, rigid 9 cm nozzle	SNC1E1T1
10 m hose length, rigid 9 cm nozzle	SNC2E1T1
Other nozzle and tube lengths upon request	
Helium spray gun	
Standard	112535
"Elite-Kit" Spray gun with accessories in a compact case	109951
Other accessories	
Trolley	114820
Transportation case	119594



Advantages at a glance

- Ultralight, only 21 kg/46 lb
- Smart design with retractable handle
- Easy to move
- Detachable control panel
- On-demand operating interface
- Intuitive and customizable menu
- Small footprint, small size
- Can be operated in any position
- Large bright color touchscreen
- Color graphics functionality
- Password-protected display
- Integrated SD memory card for recording, downloading and parameter setting
- Voice synthesizer

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Customer Friendly.**

Pfeiffer Vacuum stands for innovative and custom vacuum solutions worldwide, for German engineering art, competent advice and reliable service.

Ever since the invention of the turbopump, we have been setting standards in our industry and this claim to leadership will continue to drive us in the future.

**Are you looking for a
perfect vacuum solution?
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