ASM 306 S

**Helium and hydrogen sniffer leak detector
for easy and accurate full-time sniffing operations**

PFEIFFER VACUUM

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Our know-how

Pfeiffer Vacuum is one of the world's leading providers of vacuum and leak testing solutions. In order to complete our leak detection product portfolio, we are introducing a breakthrough unit addressing any industrial sniffing applications, especially refrigeration and air conditioning. Leakage control using sniffing measurements before the final refrigerant gas charge, is one of the latest step of the production process. Thus it requires the highest testing reliability to increase productivity and quality levels. The ASM 306 S will help you to meet those challenges.

Superior performance and fast testing

Based on over 50 years of know-how in leak detection, you will get all the advantages of a proven technology regarding sensitivity, accuracy and repeatability. The ASM 306 S has been design to offer fast and repeatable measurements, whether helium or hydrogen is used as tracer gas. This unit offers the fastest recovery in case of big leaks to maximize uptime.

Compact design

The ASM 306 S offers a compact and rugged design with limited footprint to be easily installed at any workplace. It is also the perfect choice for an integration into a production line whether for manual or automated operation.

Applications

- Cooling systems such as refrigerator and air conditioner
- Heat exchangers
- Valves and manifolds
- Gas circuit components
- Storage tanks, expansion vessels

Air conditionning

Customer benefits

- Helium and hydrogen tracer gases
- High sensitivity and accurate measurements
- Intuitive menu for easy operation
- Fast start-up
- Fast recovery in case of pollution
- Compact design and small footprint for easy integration into your production line
- Integrated toolbox
- Latest generation of tactile HMI with a large touch screen
- Low maintenance requirements

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Smart and user-friendly

The main display of the ASM 306 S offers easy readability with its 7 inches size, fully tactile and high resolution screen. This display is also removable and equipped with magnets at the rear to allow to be fixed on any metallic surface for the operator's convenience. The test information is visible directly on the probe for easy visual management, with color LEDs lightning up in real time in accordance to the display, so that operators can focus on test parts. Its software is available in 10 different languages.

The ASM 306 S can be completed with a 2 years lifetime calibrated leak with both helium and hydrogen. The calibrated leak can be installed in a dedicated compartment at the front of the unit.

Ergonomic and rugged sniffer probe

Co-designed with the user in mind, the ergonomics of the sniffer probe has been a major focus allowing the operator to be able to hold the sniffer probe during their entire working shift. The high flow probe will help you pinpoint any leaks easily without missing any of them and without generating false alarms.
The two white LEDs on the front of the probe allow to illuminate the test area for a more precise leak localization.
The probe exists with various hose lengths to easily adapt to your application and the cable can be exchanged independently from the probe itself.

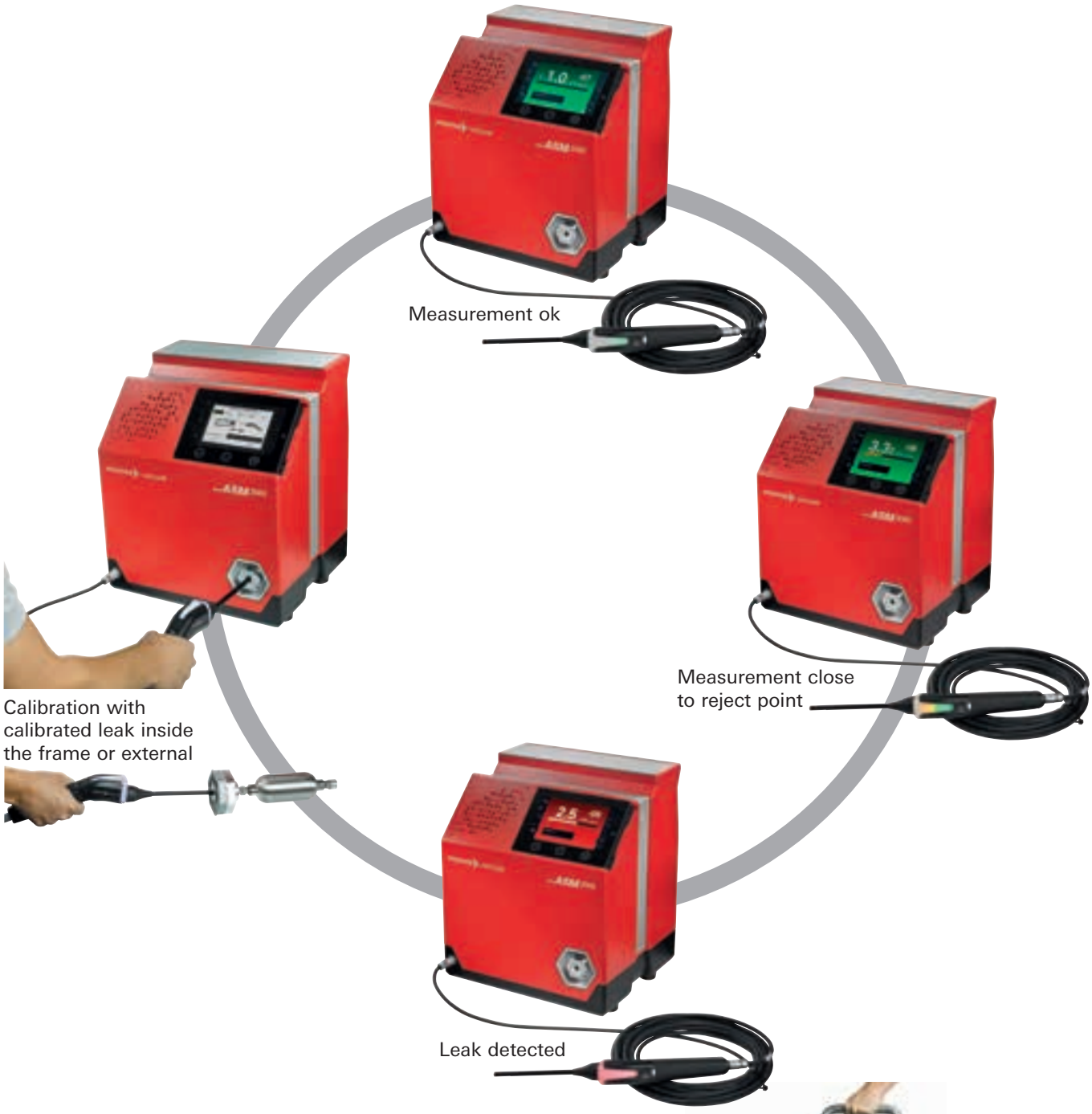
Specific attention has been placed on the robustness of the complete ASM 306 S , including the probe and its cable to offer a long lifetime with optimized suction flow and to provide you a full-time sniffing unit with low cost of ownership

Applications

Refrigeration

RAC components assembly

ASM 306 S options



ASM 306 S accessories


Sniffer probe


Trolley

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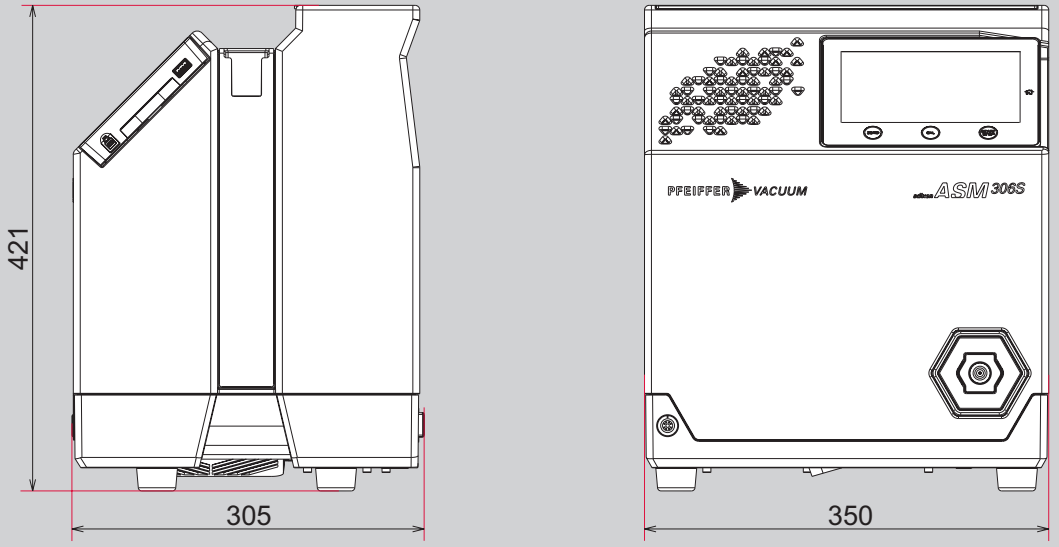
Technical data

Features	ASM 306S
Detectable gases	Helium and hydrogen
Min. detectable leak rate for 4He	$1 \cdot 10^{-7}$ mbar l/s
Min. detectable leak rate for H_2	$5 \cdot 10^{-7}$ mbar l/s[1)]
Start up time	2 min
Response time	< 1 s
Sniffer probe flow	300 sccm ± 10%
Noise level	55 dB (A)
Interface	RS-232, I/O, Fieldbus options
Operating temperature	10 – 40 °C
Supply voltage	100 – 240 V, 50/60 Hz
Power consumption max	300 VA
Weight	22 kg
Dimensions (L x W x H)	350 x 305 x 421

[1)] The best sensitivity is achieved after degassing

Dimensions



Dimensions in mm

Order number matrix ASM 306 S

Order number

R S A S 0 0 A a M M 9 A

Interface board	a
Basic 15 pins I/O	**0**
37 pins I/O	**2**
37 pins I/O + Ethernet[1)]	**4**

[1)] Ethernet will allow to create an additional COM port to operate the leak detector through a computer
Other Fieldbus communication options on request.

Accessories

Accessories	Order number
Hybrid sniffer probe	
2 m hose length, rigid nozzle	**PRB2H02HA**
5 m hose length, rigid nozzle	**PRB2H05HA**
10 m hose length, rigid nozzle	**PRB2H10HA**
Hybrid cables	
2 m length	**A604523**
5 m length	**A602086**
10 m length	**A602106**
Replacement filters for hybrid probes	
Tip filters	**127829S**
Small particles filters	**128051**
Calibrated leaks	
100% Helium, value between 4-6 · 10^{-5} mbar l/s	**127388**
100% Hydrogen, value between 4-6 · 10^{-5} mbar l/s	**127387**
Trolley	**114820**

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We are the only supplier of vacuum technology that provides a complete product portfolio.

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