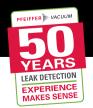


Modular tracer gas leak detector

The highest performance in helium and hydrogen for industrial leak detection systems.





Modular tracer gas leak detector

The highest performance in helium and hydrogen for industrial leak detection systems.

The perfect solution

The ASI 35 is the perfect leak detection solution dedicated to leak detection machine builders and end-users. This unit combines high performance, reliability, and repeatability with maximum uptime. The ASI 35 provides maximum performance for tracer gases helium and hydrogen in integral and localizing test methods or a combination of both. Therefore, it offers flexibility in the testing of demanding samples with minimum signal background and crosstalk, guaranteeing fast overall cycle times.

Flexible and versatile

Due to its modular design, the ASI 35 is optimized for minimum space requirements and maximum integration options. The vacuum module can be installed in any orientation and all other modules are compatible with ½ 19 inch rack format. The user interface becomes optional as the unit can be controlled by PCs or PLCs. Only two cables are needed to connect the vacuum and electronic modules, making the ASI 35 the easiest modular leak detector to set up.



Automotive



Refrigeration and air conditioning



Packaging industry



Applications

- Automotive: airbag inflators and ignitors, cooling radiators, fuel rails, and injectors

 Refrigeration and air conditioning: evaporators,
- compressors, tubes, coils

 Packaging: cans and capsules, tubular bags, blisters
- Mechanical parts: valves, fittings, manifolds

Modular tracer gas leak detector

The highest performance in helium and hydrogen for industrial leak detection systems.

Dependable, fast, and sensitive

Further advantages of the ASI 35 are its high helium pumping speed and low maintenance turbopump, its dual independent long life filaments as well as its state-of-the-art electronics. These features guarantee a long-lasting trouble-free operation. The leak detection system can be designed for testing in various operational modes for vacuum or sniffing tests with the highest sensitivity level. The ASI 35 sustains very high throughput, ensures the accuracy and reproducibility of the measurement results and allows ultra fast cycle time as short as 1 second. Thanks to its unrivalled performances in sniffing, the ASI 35 is the perfect leak detector for such specific systems, especially if multipoint sniffing is needed.

Easy worldwide operation

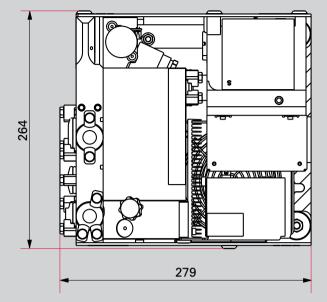
The electronic module is suitable for universal voltage, making the ASI 35 easy to integrate into systems designated for worldwide operation. The leak detector is designed for working conditions in ambient temperatures of up to 45 °C. The easy mechanical integration is complemented by a wide range of interfaces, allowing data acquisition and complete external control of the system. Thanks to customized I/O configuration, a basic leak detection system can also be considered without PC or PLC. The optional control panel with color touch display provides easy operation through intuitive settings and software menus for both leak detection machine builders and end-users.

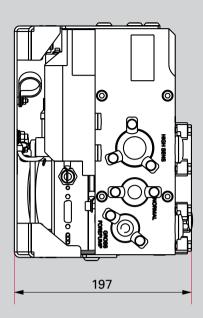
Customer benefits:

- Integral and localizing test (vacuum and sniffing) for both tracer gases: helium and hydrogen
- Short cycle times due to highest pumping speed
- Maximum reliability and robustness for high uptime
- Wide temperature range allows for operation in challenging environments
- Worldwide operation thanks to universal voltage of the electronic module
- Ability to sustain up to 800 sccm flow in sniffing applications
- Easy substitution of any other modular leak detector model (I/O compatibility mode)

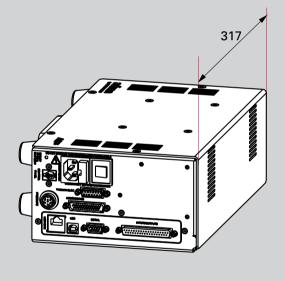
Dimensions

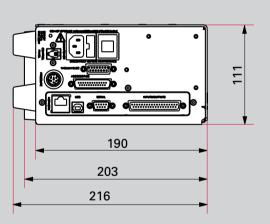
Vacuum module



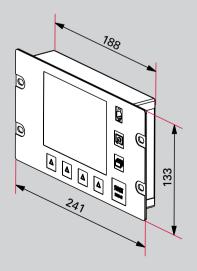


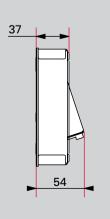
Electronic module





Control panel





Dimensions in mm

Technical data and order numbers

Maximum power consumption

Operating temperature

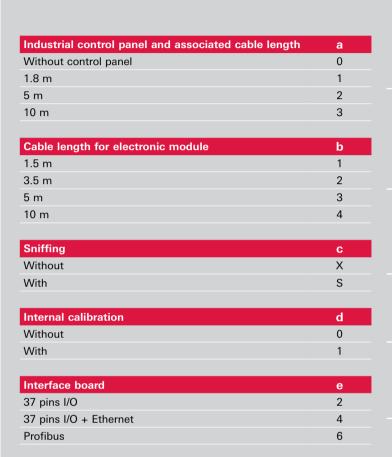
Modular helium leak detector	ASI 35
Test methods	Vacuum and sniffing leak detection
Minimum detectable leak rate for He (vacuum leak detection)	3.5 · 10 ⁻⁸ mbar l/s (gross leak test mode)
	1 · 10 ⁻¹⁰ mbar l/s (normal leak test mode)
	5 · 10 ⁻¹² mbar l/s (high sensitivity test mode)
Minimum detectable leak rate for He (sniffing leak detection)	1.5 · 10 ⁻⁸ mbar l/s
Tracer gases	⁴ He, ³ He, H ₂
Maximum inlet test pressure	18 mbar (gross leak test mode)
	1 mbar (normal leak test mode)
	0.2 mbar (high sensitivity test mode)
Pumping speed for He	6 l/s (high sensitivity test mode)
	1.8 l/s (normal test mode)
Start-up time	< 3 min
Vacuum connections	DN 25 ISO-KF; DN 16 ISO-KF
Interface (see the order matrix for complete options configuration)	RS-232
	Ethernet
	Profibus
	USB
I/O interface	6 digital inputs (allocated functions configurable)
	3 analog outputs (configurable: helium signal log, mantissa,
	exponent, inlet pressure)
	5 relay outputs (allocated functions configurable)
	4 transistor (open collector) outputs
	(allocated functions configurable)
Dimensions: L × W × H	279 × 264 × 197 mm
Vacuum module: Electronic module:	2/9 x 264 x 197 mm 216 x 317 x 111 mm
	241 × 54 × 133 mm
Control panel: Weight	241 x 34 x 133 IIIII
Vacuum module:	15 kg
Electronic module:	5 kg
Control panel:	1.3 kg
Universal Voltage	90-240 V AC; 50/60 Hz

PFEIFFER → VACUUM

300 W

10-45 °C





Order numbers accessories

Accessories	Order number
Sniffing option	
Sniffing kit	123529
Calibration	
Calibration kit	123530
Sniffing probe	
Rigid 9 cm nozzle, 5 m tube length	SNC1E1T1
(Other nozzle and tube lengths upon request)	
Specific communication interface	
I/O module type ASI 20 MD	123352

Pfeiffer Vacuum stands for innovative and custom vacuum solutions worldwide, technological perfection, competent advice and reliable service.

COMPLETE RANGE OF PRODUCTS

From a single component to complex systems:

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

COMPETENCE IN THEORY AND PRACTICE

Benefit from our know-how and our portfolio of training opportunities! We support you with your plant layout and provide first-class on-site service worldwide.

Are you looking for a perfect vacuum solution? Please contact us:

Pfeiffer Vacuum GmbH Headquarters · Germany T +49 6441 802-0 info@pfeiffer-vacuum.de

PFEIFFER VACUUM

www.pfeiffer-vacuum.com



