

HIGH PERFORMANCE – COMPACT – ASM 182 T, ASM 182 TD+

The perfect combination of high performance and easy operation for exceptional reliability even in the harshest industrial applications

Powerful and compact

The high-performance compact leak detectors in the ASM 182 series are available in oil-lubricated and dry versions. Both versions are equipped with a high backing capacity. The small footprint of these leak detectors enables them to be easily integrated into production lines. Our powerful ASM 182 can be used for leak detection on parts of the most varied sizes and volumes. Whether used in the automotive industry, the aeronautic and aerospace or in semiconductor industry, these leak detectors fit the bill with their high performance and reliability.

Oil sealed version: ASM 182 T

The ASM 182 T leak detector has a rotary vane pump with a pumping speed of 20 m³/h. This large backing pump, together with a powerful turbopump, enables the ASM 182 T to achieve the fastest cycle times in its performance class. It is most impressive when large volume test parts are concerned. Thanks to the fold-out feature of the front and rear housing sides the leak detector can be easily maintained.

Dry version: ASM 182 TD+

The dry ASM 182 TD+ combines a particle-free backing pump with extreme long-term stability and a pumping speed of 25 m³/h, a molecular pump for high pumping speed in the medium vacuum range and a powerful turbopump in the high vacuum range. The test pressure is attained rapidly for large or strongly outgassing test objects. Thanks to ultra-small background signals, the ASM 182 TD+ reliably performs even in the most demanding environments.

Customer benefits ASM 182 T

- Short cycle times thanks to the largest backing pump in its class
- Low helium background even with large test parts
- Ease of service thanks to the fold-out feature of the front and rear housing sides

Customer benefits ASM 182 TD+

- The test pressure is attained rapidly even with large or strongly outgassing test specimens.
- Short response times and test cycles thanks to high helium pumping speed
- Ultra-small background signals and rapid signal reduction – for demanding test jobs



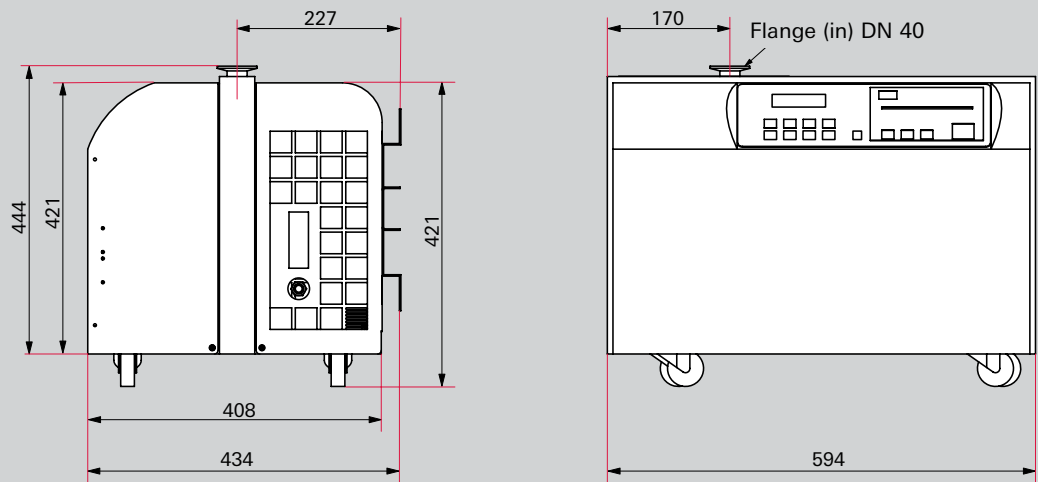
Applications

- Leak detection systems
- Automotive
- Aeronautic and aerospace industry
- Laser technology
- Sensors
- Vacuum components – feedthroughs, valves, bellows, expansion joints
- Electronics
- Mechanical components for petrochemistry
- Heat exchangers

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Dimensions



Dimensions in mm

Technical data

	ASM 182 T	ASM 182 TD+
Flange (in)	DN 40 ISO-KF	DN 40 ISO-KF
Test methods	Vacuum and sniffing leak detection	Vacuum and sniffing leak detection
Detectable gases	⁴ He	⁴ He
Minimum detectable leak rate for He (sniffing leak detection)	$1 \cdot 10^{-8}$ Pa m ³ /s	$1 \cdot 10^{-8}$ Pa m ³ /s
Minimum detectable leak rate for He (vacuum leak detection)	$5 \cdot 10^{-13}$ Pa m ³ /s	$5 \cdot 10^{-13}$ Pa m ³ /s
Pumping speed for He	4.4 l/s	4.4 l/s
Noise level	54 dB (A)	65 dB (A)
Supply	200–240 V; 50/60 Hz	200–240 V; 50/60 Hz
Power consumption max.	1,000 W	1,500 W
Maximum inlet test pressure	6 hPa	6 hPa
Backing pump capacity	20 m ³ /h	25 m ³ /h
Start-up time (20 °C) without calibration	3 min	< 4 min
Start-up time (20 °C) with calibration	4.5 min	< 5.5 min
I/O interfaces	Digital inputs (start, vent, calibration...); digital outputs (test modes, cycle in progress, helium signal above reject setpoint ...); analog outputs (helium signal log, inlet pressure)	Digital inputs (start, vent, calibration...); digital outputs (test modes, cycle in progress, helium signal above reject setpoint ...); analog outputs (helium signal log, inlet pressure)
Interface	RS-232	RS-232
Operating temperature	10–40 °C	10–40 °C
Weight	76 kg	88 kg

Order number matrix
ASM 182 T, ASM 182 TD+

Order number

a b c d e f P h i j 0

Leak detector		a
ASM 182 T		D2
ASM 182 TD+ without cart		D1
ASM 182 TD+ with cart		D7
Detectable gases		b
Helium (⁴ He)		0
3 masses (⁴ He, ³ He, H ₂)		3
Seals for vacuum module and analyzer cell		c
Elastomer		R
Metal		M
Control panel		d
Standard		S
Graphic color touchscreen		T
Detection option		e
ASM 182 T (not available)		0
ASM 182 TD+ standard		S
ASM 182 TD+ with gas line option		G
Test chamber		f
none		0
Small test chamber		1
Medium test chamber		2
Large test chamber		3
Language		h
French		A
English		B
German		C
Japanese		E
Supply		i
100–130 V; 50/60 Hz		7
220–240 V; 50/60 Hz		8
Cable and plug type		j
USA		1
France/Germany		2
UK		3
Italy		4
Switzerland		5
Without plug		7

