

# HIGH PERFORMANCE – MOBILE – ASM 380

**Mobile unit optimized for rapid pump down and short response times on large test objects**

## **Dry and mobile**

Our ASM 380 high-performance leak detector is fitted with an ACP 40 dry backing pump combined with a powerful high vacuum pump. This makes it the ideal solution for maximum testing sensitivity in analytics, laboratories, the solar panel industry and the semiconductor industry. With the ASM 380, you will achieve extremely short pump down times even where large volumes are involved. The slim design and compact size set up on a cart with large wheels and a low center of gravity make this leak detector mobile and safe to handle.

## **User-friendly**

The ASM 380 with its low noise level of only 53 dB(A) is unusually quiet for a leak detector of its class. The color display panel with full 360° viewing can be read from any position. This display is also detachable and can be positioned where the user can see it using four strong magnetic clips. An integrated SD memory card makes it easy to save test data and settings parameters. The ASM 380 has an integrated lockable toolbox for tools, spare parts and accessories. Thanks to its convenient bottle-holder, it is even possible to attach and carry a tracer gas bottle.

## **Compatible**

The ASM 380 can likewise be operated with the wireless remote control RC 500 WL. This enables the leak detector to be operated even from a distance of up to 100 meters.



Remote control RC 500 WL

## **Customer benefits**

- Performance, sensitivity and mobility in the smallest footprint
- High roughing capacity using particle-free, clean and dry ACP pump
- Clean room compatible
- High crossover pressure for a rapid entry into measurement mode
- Optional communication interfaces
- Color touch display with full 360° viewing offering excellent visibility
- Intuitive menus, easy to navigate and available in 9 languages



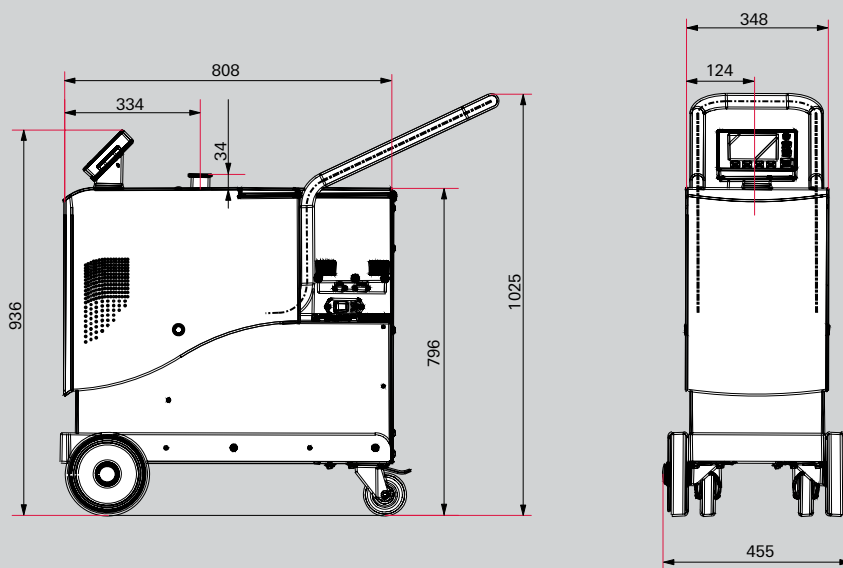
## Applications

- Semiconductor industry
- Large area coating
- Solar industry
- Accelerators
- Vacuum components – feedthroughs, valves, bellows, expansion joints
- Laser technology
- Ultra-pure media supply
- Electronics
- Aeronautics
- Medical technology

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## Dimensions



Dimensions in mm

## Technical data

	ASM 380
Flange (in)	DN 40 ISO-KF
Test methods	Vacuum and sniffing leak detection
Detectable gases	$^4\text{He}$ , $^3\text{He}$ , $\text{H}_2$
Minimum detectable leak rate for He (sniffer leak detection)	$1 \cdot 10^{-9}$ Pa m <sup>3</sup> /s
Minimum detectable leak rate for He (vacuum leak detection)	$5 \cdot 10^{-13}$ Pa m <sup>3</sup> /s
Pumping speed for He	7 l/s
Noise level	53 dB (A)
Supply	90–240 V; 50/60 Hz
Power consumption max.	1,500 W
Power consumption	700 W
Maximum inlet test pressure	15 hPa
Start-up time (20 °C) without calibration	< 4.5 min
Start-up time (20 °C) with calibration	< 5.5 min
I/O interfaces	1 digital input (start cycle); 2 digital outputs (test mode ok, helium signal above reject setpoint); 3 analog outputs (configurable: helium signal log, mantissa, exponent, inlet pressure)
Interface	RS-232
Operating temperature	10–35 °C
Backing capacity	35 m <sup>3</sup> /h
Weight	110 kg

## Order numbers

Leak detector	Order number
ASM 380, universal voltage	PSGB00E0MM9A
ASM 380, universal voltage, integrated Bluetooth	PSGB00E1MM9A
ASM 380, universal voltage, configurable I/O interface board	PSGB00E2MM9A
ASM 380, universal voltage, configurable I/O interface board, integrated WiFi	PSGB00E3MM9A
ASM 380, universal voltage, configurable I/O interface board, Ethernet	PSGB00E4MM9A
ASM 380, universal voltage, configurable I/O interface board, integrated Bluetooth	PSGB00E5MM9A

## Order numbers for accessories

Accessories	Order number
Bottle holder for ASM 380	118444
Inlet filter, 20 µm, DN 40/40 ISO-KF	105842
Remote control RC 500 WL, wireless	PT 445 432-T
Locking clamp, DN 40 KF	118801

General accessories for our leak detectors can be found on page 46.

# LEAK DETECTORS

## Series and applications

### Overview of series and applications

	Analytics					Semiconductor							Coating							Industry					R&D																													
	Electron microscopy	Leak detection	Mass spectrometry	Surface analysis	Plasma monitoring	Residual gas analysis	Lithography	PVD (Physical Vapor Deposition)	CVD (Chemical Vapor Deposition)	Plasma etching	Implantation – Source	Implantation – Beamline	Inspection	Bonding	MBE (Molecular Beam Epitaxy)	Load-locks, transfer chambers, handling systems	Flat Panel Display (FPD)	LED / OLED	Hard disk coating	Photovoltaics	Glass coating (PVD)	CD- / DVD- / Blu-Ray manufacturing (PVD)	Optical coating (PVD)	Wear protection (PVD, CVD)	Web coating	Medical technology	Industrial leak detection	Electron beam welding	Isolation vacuums	Lamp and tube manufacturing	Heat treatment	Vacuum drying	Vacuum furnaces	Nuclear research	Fusion technology	Plasma research	Particle accelerators	Space simulation	Cryogenic research	Elementary particle physics	Nanotechnology	Biotechnology												
<b>■ recommended</b>																																																						
<b>Portable</b>																																																						
MiniTest 300																																																						
ASM 310	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■								
<b>Multipurpose</b>																																																						
ASM 340	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■							
ASM 340 D	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■						
ASM 340 I	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■					
<b>High-performance – mobile</b>																																																						
ASM 380	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■				
<b>High-performance – compact</b>																																																						
ASM 182 T	■	■	■	■		■										■			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■					
ASM 182 TD+	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■			
<b>High-performance – console</b>																																																						
ASM 192 T																■			■																																			
ASM 192 T2D+							■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
<b>Workstation</b>																																																						
ASM 1002															■													■	■																									
<b>Modular</b>																																																						
ASI 35																																																						
<b>Sniffing</b>																																																						
ASM 102 S							■	■	■																			■																										