

WORKSTATION – ASM 1002

For leak testing of various objects where high production throughput is required

Dedicated to mass production applications

Leak detection workstations are used when extremely short cycle times and fast reduction of helium background are required. These leak detectors were developed for leakage testing of open or sealed components in mass production.

Powerful

The ASM 1002 leak detector combines high performance with user-friendliness. The vacuum system provides a backing capacity up to 50 m³/h and guarantees fast reduction of helium background between measurements. These performance characteristics along with its reliability and long-term stability make the ASM 1002 the ideal solution for even the most demanding applications such as leak testing of pacemakers.

User-friendly

The ergonomic design of the ASM 1002 provides ideal conditions for seated operators. The unit's software supports the user during testing of sealed components after a bombing test as well as during leakage testing of open parts. Clear optical and acoustic displays make for easy and reliable operation of the workstation by experienced and semi-skilled users alike.

Adaptable

The ASM 1002 enables automatic leak detection to be carried out on sealed components. By closing the test chambers, the test procedure starts and a red / green light indicates the test result at the end. If necessary, the test chambers can simply be exchanged for a standard vacuum flange or a part-specific holding fixture. This allows the same leak detector to be used for testing open parts, too.

Customer benefits

- Short time to test thanks to powerful pumping package: one or two rotary vane pumps (25 or 50 m³/h) to evacuate the test object and one rotary vane pump (20 m³/h) as fore pump for the high-vacuum pump
- The fastest unit of its category: less than 5 seconds to achieve 1 · 10⁻¹⁰ Pa m³/s in mass production
- Unique ergonomics for operator's comfort
- Two test methods: Standard test or special Pass/Fail menu for semi-automatic testing with high throughput
- Rugged and highly reliable unit to meet high volume production needs
- Low maintenance



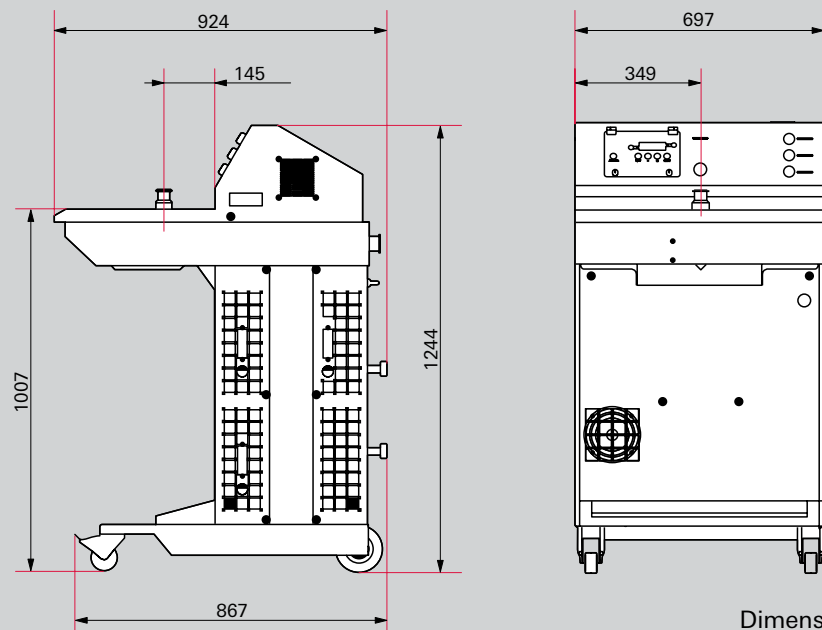
Applications

- Electronic components
- Medical technology
- Pharmaceuticals
- Food technology
- Lamp technology
- Vacuum technology, large components

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Dimensions



Dimensions in mm

Technical data

ASM 1002

Flange (in)	DN 25 ISO-KF
Test methods	Vacuum and sniffing leak detection
Detectable gases	^4He
Minimum detectable leak rate for He (sniffing leak detection)	$1 \cdot 10^{-8} \text{ Pa m}^3/\text{s}$
Minimum detectable leak rate for He (vacuum leak detection)	$1 \cdot 10^{-12} \text{ Pa m}^3/\text{s}$
Pumping speed for He	4 l/s
Noise level	55 dB (A)
Backing capacity	25 m ³ /h
Supply	110–130 / 200–240 V; 50/60 Hz
Power consumption	< 1,500 W
Power consumption max.	2,300 W
Maximum inlet test pressure	100 hPa
Start-up time (20°C) without calibration	< 3.5 min
Start-up time (20°C) with calibration	< 4.5 min
I/O interfaces	Analog outputs (helium signal log, inlet pressure); special analog outputs for returning the light status in pass/fail mode
Interface	RS-232
Operating temperature	10–40 °C
Weight	190 kg

**Order number matrix
ASM 1002**

Order number

a b c 0 d e 0 f g h i 0

Leak detector	a
ASM 1002	Y

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

Backing pump	d
One backing pump, 25 m ³ /h	S
Two backing pumps, 50 m ³ /h	R

Test chamber	e
Inlet flange DN 25	0
Small test chamber	1
Medium test chamber	2
Large test chamber	3

Remote control	f
Without	S
mbar l/s	M
Torr l/s	T
Pa m ³ /s	P
Pa m ³ /s, Japan	J

Language	g
French	A
English	B

Voltage	h
100–130 V; 50/60 Hz ¹⁾	7
220–240 V; 50/60 Hz	8

Cable and plug type	i
USA/Japan	1
France/Germany	2
UK	3
Italy	4
Switzerland	5
Without plug	7

¹⁾ not below 110 V for operation with two backing pumps

