

# HIGH PERFORMANCE – CONSOLE – ASM 192 T, ASM 192 T2D+

**Ultra sensitive detection limits on large-volume components,  
ergonomic unit for standing operators**

## **Ergonomic console units**

High-performance leak detectors in the ASM 192 series provide high reliability even in harsh environments. The console units have an ergonomic work height for standing operators and the remote control is fixed to a freely movable arm for convenient use. The work surface is grounded and provides a generous surface for placing large test objects, useful small parts and installation components on.

These console leak detectors benefit of an easy menu navigation combined with a voice synthesizer for delivering important status messages. As with all other Pfeiffer Vacuum leak detectors, the ASM 192 series can be controlled using a personal computer and measuring data can be documented – console units, in fact, provide as well a work surface for a laptop.

## **Most sensitive detection limits on large-volume components**

Extremely short pump down times even of large chambers as well as ultra short cycle times are the outstanding features of these console units. The vacuum system incorporating a powerful high vacuum pump reduces helium background fast and makes for short recovery times even after big leaks.

With one or two backing pumps operating in parallel, system configurations can be ideally adapted to meet any production throughput requirements. For the ASM 192 series, too, there are oil-lubricated rotary vane pumps as well as dry ACP pumps available for use as backing pumps.

## **Customer benefits**

- Ideal for industrial applications
- Robust and reliable in the harshest environments
- Fast response time thanks to very high helium pumping speed
- Various languages and operating voltages available for global use
- Graphic color touchscreen
- Test chambers can be mounted on the inlet flange



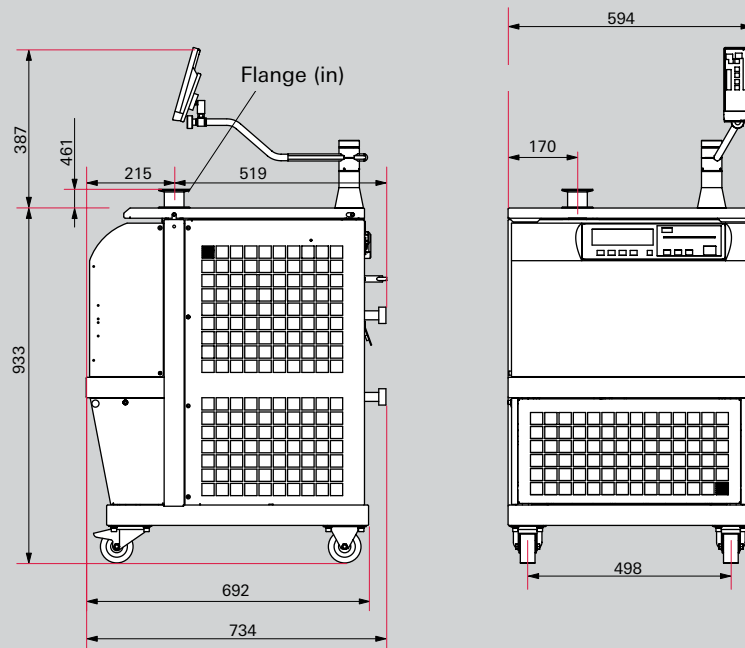
## Applications

- Laser technology
- Aeronautics and aerospace
- Space simulation
- Electronics
- Nuclear technology
- Medical technology
- Accelerators
- Semiconductor technology
- R & D
- Coating
- Vacuum technology, large chambers

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## Dimensions



Dimensions in mm

## Technical data

	ASM 192 T	ASM 192 T2D+
Flange (in)	DN 40 ISO-KF	DN 50 ISO-KF
Test methods	Vacuum and sniffing leak detection	Vacuum and sniffing leak detection
Detectable gases	$^4\text{He}$	$^4\text{He}$
Minimum detectable leak rate for He (sniffing leak detection)	$1 \cdot 10^{-8} \text{ Pa m}^3/\text{s}$	$1 \cdot 10^{-8} \text{ Pa m}^3/\text{s}$
Minimum detectable leak rate for He (vacuum leak detection)	$5 \cdot 10^{-13} \text{ Pa m}^3/\text{s}$	$5 \cdot 10^{-13} \text{ Pa m}^3/\text{s}$
Pumping speed for He	4.4 l/s	20 l/s
Noise level	54 dB (A)	66 dB (A)
Supply	200–240 V; 50/60 Hz	200–240 V; 50/60 Hz
Power consumption max.	1,300 W	1,000 W
Maximum inlet test pressure	6 hPa	30 hPa
Backing capacity	20 m <sup>3</sup> /h	25 m <sup>3</sup> /h
Start-up time (20°C) without calibration	3 min	3.5 min
Start-up time (20°C) with calibration	4.5 min	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	125 kg	157 kg

**Order number matrix**  
**ASM 192 T, ASM 192 T2D+**

**Order number**

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

<b>Leak detector</b>		<b>a</b>
ASM 192 T		D4
ASM 192 T2D+		D3

<b>Detectable gases</b>		<b>b</b>
Helium ( <sup>4</sup> He)		0
3 masses ( <sup>4</sup> He, <sup>3</sup> He, H <sub>2</sub> )		3

<b>Seals for vacuum module and analyzer cell</b>		<b>c</b>
Elastomer		R
Metal		M

<b>Backing pump</b>		<b>d</b>
One backing pump (ASM 192 T: 20 m <sup>3</sup> /h, ASM 192 T2D+: 25 m <sup>3</sup> /h)		S
ASM 192 T – two backing pumps: 40 m <sup>3</sup> /h		R
ASM 192 T2D+ – two backing pumps: 50 m <sup>3</sup> /h		T

<b>Test chamber</b>		<b>e</b>
None		0
Small test chamber		1
Medium test chamber		2
Large test chamber		3

<b>Measuring units</b>		<b>f</b>
mbar l/s		M
Torr l/s		T
Pa m <sup>3</sup> /s		P

<b>Language</b>		<b>g</b>
French		A
English		B
German		C
Japanese		E

<b>Supply</b>		<b>h</b>
100–130 V; 50/60 Hz <sup>1)</sup>		7
220–240 V; 50/60 Hz		8

<b>Cable and plug type</b>		<b>i</b>
USA 15 A		1
France/Germany		2
UK		3
Italy		4
Switzerland		5
Without plug		7
USA 30 A <sup>2)</sup>		8

<sup>1)</sup> not below 110 V for operation with two backing pumps

<sup>2)</sup> If the voltage is lower than 110 V

