

There is more to clean environments than meets the eye Leading solutions for air monitoring

The new MAS-100 VF®





Overview

The new MAS-100 VF® active Air Sampler was especially developed for controlled environments requiring microbial control. Regulatory expectations require air monitoring in manufacturing facilities because microbial contamination may influence quality and reduce shelf life. The MAS-100 VF® uses 90 – 100 mm standard Petri dishes, is easy to handle, easy to operate and its compact design is ideal for monitoring your environment. Its electronic speed control maintains an accurate flow rate.

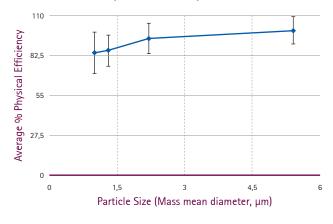
Like all MAS-100 $^{\circ}$ systems, the MAS-100 VF $^{\circ}$ samples at a flow rate of 100 litres per minute. The perforated lid is the same as on the standard MAS-100 $^{\circ}$ sampler.

The simple user menu is easily accessed and operated by a single touch slide control. Sampling volumes are programmable from 1 – 1,000 litres, with 5 preset volumes to ensure reproducible results.

Functional principle

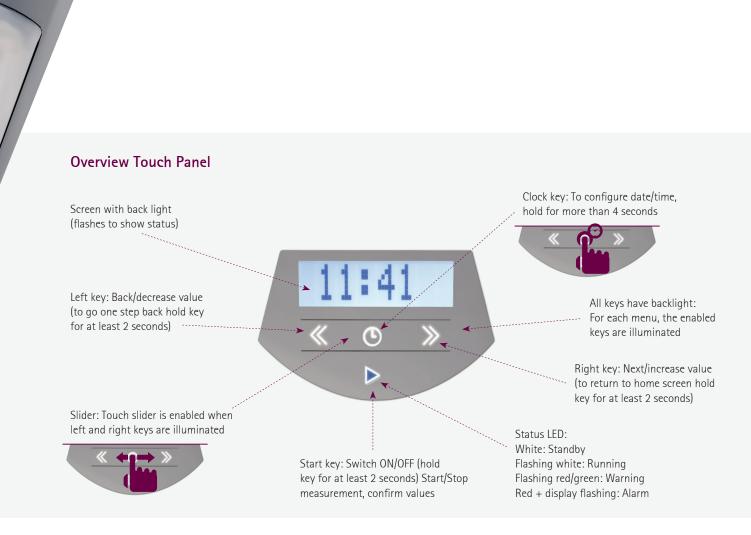
The MAS-100 VF® is an Air Sampler that is based on the Anderson impaction principle. The resulting air flow is directed onto a standard Petri dish containing an agar medium. After the collection cycle, the Petri dish is incubated and the colonies subsequently counted.

MAS-100 VF® Physical Efficiency



Advantages

- Compact design
- Calibration certificate on instrument
- Menu operated software
- Easy handling
- Unique directional air flow
- Ideal for USP <797> monitoring
- Same physical efficiency performance as other instruments of the MAS-100® Family



Key Features

- Validated using heipha® culture media
- New, easy to use, slide controls
- 5 preset volumes
- 300 x 0.6 mm sample head 100 LPM flow rate
- Impaction speed of 19.6 m/s
- New on-board software platform
- Instrument acts as a server similar to an internet mode
- PDF of calibration certificate on instrument

- Open system: use of standard Petri dishes
- d50 value better than 0.8 μm
- Event log stored in the MAS-100 VF®
- Electronic flow detection
- Time and date displayed
- Calibration reminder (programmable from 1 12 months)
- Li-ion rechargeable battery, intelligent charging



Technical Specifications

Feature	Specification	
Height	179 mm	
Diameter	109 mm	
Depth with handle	148 mm	
Weight	1.75 kg (with sampling head)	
Material	Anodized aluminum	
Diameter of sampling head	10 cm	
Nominal airflow	100 LPM ± 4 %	
Sampling volume	Preset values: 50, 100, 250, 500 and 1,000 litres	
-	Each volume can be preset to a value from 1 to 1,000 litres	
Airflow regulation	Electronic	
Petri dish support	For standard Petri dishes and contact plates	
Tripod screw	1/4" and 3/8" for use with optional tripod	
Rechargeable batteries	Recharchable Li-ion battery pack	
Motor	6 V	
Display	Alphanumeric liquid crystal display, 2 x 8 characters	
RTC battery	RTC (real time clock) battery –	
	Lifetime: Approximately 10 years	
Operating conditions	Temperature 5 to 40°C, humidity 0 to 80 % RH	
	(non-condensing)	
Control unit	Microprocessor	
CE Approval	Emission: EN 61326:1997/A1:1998, EN 55022:1998 +A1:00	
	Immunity: EN 61326-1:1997/A1:1998,	
	EN 61000-4-2:1995 +A1:98 +A2:01,	
	EN 61000-4-3:1998 +A1:98 +A2:01,	
	EN 61000-4-4:1995 +A1:01 +A2:01,	
	EN 61000-4-5:1995 +A1:01,	
	EN 61000-4-6:1996 +A1:01,	
	EN 61000-4-8:1993 +A1:01,	
	EN 61000-4-11:1994 +A1:98 +A2:01	
Power Unit/Battery Charger	100 to 240 V AC/47 – 63 Hz	
Output	5 V DC/2000 mA	

Ordering Information

Description	Catalog No.
MAS-100 VF® Air Sampler	1.17103.0001

Functionality Testing Report

Description	Catalog No.
MAS-100 VF® Functionality Testing Report	MAVFA4FT1

Accessories

Description	Catalog No.
MAS-100 NT® Extra perforated lid (300-hole)	1.09195.0001
MAS-100 VF® Power Supply	1.17104.0001
MAS-100 VF® Petri dish clamps, 3	1.17171.0001



Related products

heipha® ICR Settle Plates (triple-bagged, gamma-irradiated, non-lockable)	Package size	Ord. No.
Sabouraud Dextrose Agar – ICR	20	1.46577.002
	120	1.46577.012
Sabouraud Dextrose Agar + LT - ICR	20	1.46081.002
(SDA with lecithin and Polysorbate (Tween®) 80)	120	1.46081.012
Sabouraud Dextrose Agar + LTHTh - ICR 30 ml	20	1.46005.002
(SDA with lecithin, Polysorbate (Tween®) 80, histidine and thiosulfate)	120	1.46005.012
Sabouraud Dextrose Agar selective + LTHTh - ICR	20	1.46016.002
(SDA with lecithin, Polysorbate (Tween®) 80, histidine and thiosulfate and irradiation-resistant antibiotics for growth inhibition of accompanying bacterial flora)	120	1.46016.012
Tryptic Soy Agar - ICR	20	1.46001.002
7 3	120	1.46001.012
Tryptic Soy Agar + LT - ICR	20	1.46050.002
(TSA with lecithin and Polysorbate (Tween®) 80)	120	1.46050.012
Tryptic Soy Agar + LTHTh - ICR	20	1.46069.002
(TSA with lecithin, Polysorbate (Tween®) 80, histidine and thiosulfate)	120	1.46069.012
Tryptic Soy Agar + LT + Cephase - ICR	20	1.46076.002
(TSA with lecithin and Polysorbate (Tween®) 80 and specific	120	1.46076.012
beta-lactamase mixture for inactivation of a broad spectrum of penicillins, cephalosporins and carbapenems)		
Tryptic Soy Agar + LTHTh + Penase - ICR	20	1.46013.002
(TSA with lecithin, Polysorbate (Tween®) 80, histidine,	120	1.46013.012
thiosulfate and beta-lactamase for inactivation of penicillins)		
Vegetable Peptone Agar + LTHTh - ICR	20	1.46658.002
(PSA (caseine peptone replaced by vegetable peptone) with lecithin, Polysorbate (Tween®) 80, histidine and thiosulfate)	120	1.46658.012

heipha® ICR and ICRplus Settle Plates

The heipha® ICR Settle Plates are produced under aseptic conditions, gamma-irradiated and triple-bagged, making them optimal for active air monitoring with MAS-100® Microbial Air Samplers. All of the MAS-100® Air Samplers have been validated according to ISO 14698 using heipha® ICR and ICRplus Settle Plates – they all showed the same reliable results in physical and biological efficiency testing.



Related Services

• Functionality Testing Report

Save precious time using our ready-to-use document.

• On-Site Qualification

Simplify the execution of your Air Sampler qualification. Our highly trained validation engineers will fill in the Functionality Testing Report in your lab.

Service agreements

Stay efficient and ensure reliability of your Air Sampler over time with our yearly preventative maintenance and extended warranty. Not available in all areas

Please contact your local sales representative for more information or a quotation.



Merck KGaA
Frankfurter Straße 250
64293 Darmstadt, Germany
e-mail: mibio@merckgroup.com
www.merckmillipore.com/biomonitoring

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