

MAS-100 ISO®

Precise and reliable microbial airsampler with modular concept for stationary use in sterility test or production Isolators, to count the microbes in a defined volume of air acc. to ISO, GMP, HACCP, FDA, USP etc. requirements.

The microbial airsampler system

The MAS-100 ISO® is based on 1 to 4 airsamplers (built-up from moduls SH + VU + AU), controlled by 1 Control unit (CU). This modular concept avoids pumps, filters, vacuum or other inconvenient features, and is in fact a highly secure and precise system, perfectly dedicated for use in Isolators.

Features and benefits

- Based on MAS-100® concept
- Reliable and robust modular system
- Special Valve unit for secure hydrogenperoxide sterilization
- · Airflow compensation for highest precision
- · Low running costs by using Standard Petridishes
- 100 I/min acc. to ISO 14698, only 2.5 % deviation
- · Isokinetic: no turbulence in laminar flow
- · Sample volume programmable up to 2000 liters
- · Built-in Memory, PC-port, Printer, Calibration reminder

Experimental procedure

The MAS-100® has a built-in dialog software. The Sampling head is within the Isolator, all other parts outside. Automatic driven security valves ensure convenient and proper hydrogenperoxide sterilization of the modules SH and VU together with the Isolator.

Specification

CU and VU: 23.5 x 17 x 12 cm, AU: 23.5 x 25.4 cm, SH: 8.6 x 11 cm	
Microbial air monitoring in Isolators and other cleanrooms.	
Alphanumeric liquid crystal display, 32 characters.	
Free selection of volume of 1 - 2000 liters. Predefined Volume selectable.	
Perforated aluminium (SH-SA) or stainless stell (SH-SS) lid with 400 holes, for standard 90/100 mm Petridishes.	
Standard ¾" Tri-clamp.	
Hot-wire anemometer, numerical control.	
100 liters / min. ± 2.5%.	
User menu, Setup menu, Service menu	
At the rear of the aspiration unit is a 4-pole connector for remote control of the unit.	
Rigid PVC / Viton / SS.	
Temperature 0 to 40°C; Maximum relative humidity 80 percent for temperatures up to 31°C decreasing linearly to 50 percent relative humidity at 40°C.	
AU + VU = 0.25A (58V) when active, or 0.06A (12V) on standby	
Connected to the mains with the power supply unit: 110-240 Volt.	
Integrated matrix printer Citizen MD-911.	
CE (EN 61326-1: 1997 + A1:1998, EN 55022, Class A, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-11)	
Technical modifications in compliance with technical progress reserved.	

MAS-100 ISO®

Literature

MEIER, R. and ZINGRE, H.: Qualification of airsampler systems: The MAS-100 $^\circ$, Swiss Pharma 22 No. 1-2: page 15-21, 2000

RIETH, M.: Bedienung, Monitoring und Wartung eines Sterilitätstest-Isolators, Swiss Pharma 24 No 12: page 7-10, 2002

FELLER, W.: An introduction to the probability theory and its application, John Wiley and sons Inc. New York, page 175, 1950



Ordering Information

Product	Merck Cat. No.	Pack contents
MAS-100 ISO® CU	1.09812.0001	Control unit with built-in printer
MAS-100 ISO® SH-SA	1.09816.0001	Sampling head, aluminium
MAS-100 ISO® SH-SS	1.09817.0001	Sampling head, stainless steel
MAS-100 ISO® VU	1.09814.0001	Valve unit
MAS-100 ISO® AU	1.09813.0001	Aspiration unit
Software pack	1.09819.0001	Special cable for PC- connection
Pressure test kit	1.09326.0001	Test kit, to ensure presseure tight connections
DA-100 anemometer	1.09228.0001	Digital anemometer for calibration of MAS-100®