

MERCK

FEEL THE ATMOS HERE

MAS-100
Atmos®
microbial
compressed
gas sampler

ALA5000000

The life science business
of Merck operates as
MilliporeSigma in the
U.S. and Canada.

Millipore®

Preparation, Separation,
Filtration & Monitoring Products

It's so simple ...

to detect microbial contamination in compressed gas

The instrument manages everything for you, such as measuring of current pressure, regulating the flow rate, and automated decompression after sampling. All it takes is a few easy steps: Connect the instrument to the gas outlet, insert the appropriate agar plate, open the gas valve, and start sampling.



Data Integrity & Connectivity choose your level of digitalization

The MAS-100 Atmos® compressed gas sampler offers various operational modes for **three different workflow scenarios**: freely accessible configuration (Level 0), software-supported individual user management acc. to 21 CFR Part 11 (Level 1) or wireless options to embed sample data into fully computerized workflows and software programs for compliant environmental monitoring (Level 2).

- LEVEL 0** **Non-digital workflow**
 Freely accessible configuration
- LEVEL 1** **Workflow with hardware key**
 21 CFR Part 11 compliant user management
- LEVEL 2** **Workflow with result barcode**
 Embed into computerized workflows

Find out more about our latest innovation: SigmaAldrich.com/mas-atmos

Convenience & Safety for your daily work

The portable and battery-operated instrument is easy to carry. The 2 meter sampling hose is simple and easy to connect. The gas outlet can be connected to the room's exhaust pipe to prevent intoxication or contamination of the sampling environment.

A broad range of culture media formulations are available for Total Aerobic Microbial Count and Yeasts and Molds, as well as selective and differential culture media for detection of specified bacteria.

Lockable plates with venting option optimize the detection of anaerobic bacteria.



Compliance & Reliability for your future challenges

The instrument is designed according to GAMP 5 requirements for precise and accurate sampling of compressed gases in GMP regulated environments and cleanrooms. The software functions fulfill all requirements for data integrity according to 21 CFR Part 11.

Helping you WORK SMARTER

and minimize handling errors

Automatic detection of pressure and a mass flow sensor ensure secure, accurate sampling of compressed gases. Four gas types (Ar, N₂, air and CO₂) are pre-programmed and easily accessible. The instrument is also designed to operate at lower pressure. This new level of automation minimizes risk and makes sampling compressed gas much easier.



Pressure tubing is autoclaveable and equipped with a universal connector

The MAS-100 Atmos[®]

microbial compressed gas sampler

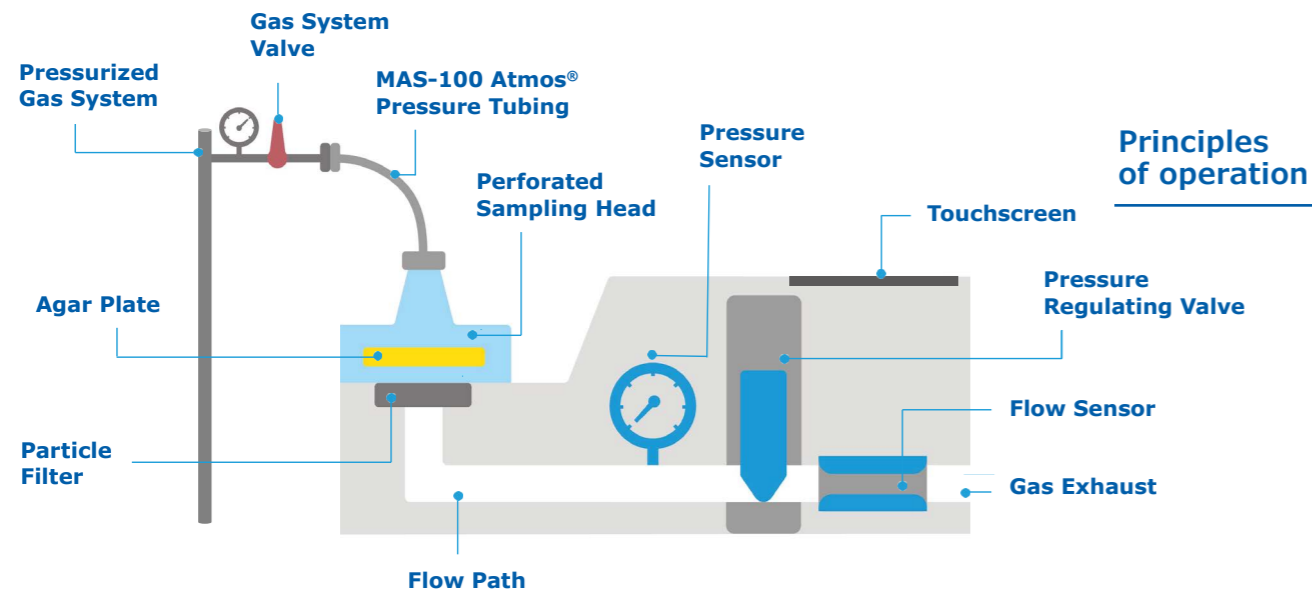
The instrument is designed to collect microorganisms in compressed gases by gentle but direct impaction onto agar. **The impaction is performed under pressure to prevent any harm to microorganisms caused by fast dynamic decompression.** The impaction speed at a default flow rate of 100 LPM is identical to all other MAS-100[®] air samplers and provides a nominal d50 of 1.1 μm.

Benefit from

- **Automated flow rate regulation**
- **Compensation for pre-defined gas types** (compressed air, N₂, Ar, CO₂) ensures the right amount of gas is sampled
- **Automated decompression**

Full audit trail function

Non-alterable audit trails of full data sets are created and clearly represented by sample and error log files.



Touchscreen

The touchscreen can be used to display important information, such as the current pressure, battery status, sampling success status and success, also with all sample data as a QR code. A graphical user guide can be selected.

Easy lid handling

The unique lid can be opened and closed to insert and remove standard 90 mm agar plates by an easy turn. There are built-in safety features to prevent opening while the instrument is under pressure.

Optional gas evacuation tube to prevent gas streaming into sampling environment

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