

# How a sampling handle can reduce your cleanroom contamination risk

Air monitoring is vital for compliance and patient safety, yet each movement – opening lids, exchanging plates – carries a risk. This is where good design matters: enabling aseptic handling and thus protecting the critical area.

MBV AG addresses these challenges with MAS-100 Sirius®: a next-generation active microbial air sampler created in close collaboration with pharmaceutical manufacturers and cleanroom experts.

## Core benefit: reduced contamination risk

At the core of aseptic operation is the smart handle design: it allows operators (even with small hands) to tilt the magnetic lid sideways by keeping hands out of the critical zone above the agar plate (**Figure 1**).

Beyond this, MAS-100 Sirius offers additional safeguards:

- Seamless and hygienic easy-to-clean stainless steel design
- Vaporised hydrogen peroxide (VHP) decontamination of the instrument's internal airflow path
- Vertical air in- and outlet to not disturb the unidirectional air flow of the cleanroom.



**Figure 1:** Aseptic operation during air sampling using the magnetic perforated lid with handle, keeping hands out of the critical zone.

## Extending the benefit: holistic design for safety, efficiency and compliance

MAS-100 Sirius is engineered to maximise process safety, operational efficiency and regulatory compliance during cleanroom air sampling. Each feature directly contributes to measurable benefits:

- Minimised operator errors and reduced training needs – thanks to the clean, intuitive user interface
- Faster sampling without compromising accuracy – the 200 SLPM flow rate allows one sample to be collected twice as fast
- Reliable and accurate results – supported by the built-in leak test and



**Figure 2:** The intuitive user interface of the MAS-100 Sirius – clear and focused on the most relevant information for air sampling.



dual-sensor design

- Early error detection – with the integrated instrument self checks
- Full data integrity and 21 CFR Part-11 compliance – tamper-evident audit trail and optional user management, and error-proof data transfer
- Flexible workflow integration – seamless connection to LIMS or EM systems using barcode or Wi-Fi.

Together, these features make MAS-100 Sirius a robust, efficient and fully compliant solution for aseptic air sampling, giving operators and manufacturers confidence in every measurement. 

**mbv**  
AIR. NOTHING ELSE.

For further information, visit:

[mbv.ch/en/mas-100-sirius](https://mbv.ch/en/mas-100-sirius)

# MAS-100 SIRIUS®. PRETTY. MUCH. BETTER.

SMART AIR SAMPLING IN CLEANROOMS.



The brand-new successor to the world's best-selling active air sampler has arrived. With its magnetic perforated lid with handle and pioneering features it is a real game changer.



Maximum process safety with intelligent automation



Less secondary contamination thanks to aseptic handling



Ultimate efficiency through simple operation and 200 SLPM



Tamper-evident audit trail and automated data export

**MAS-100 Sirius.**  
For serious air sampling.



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