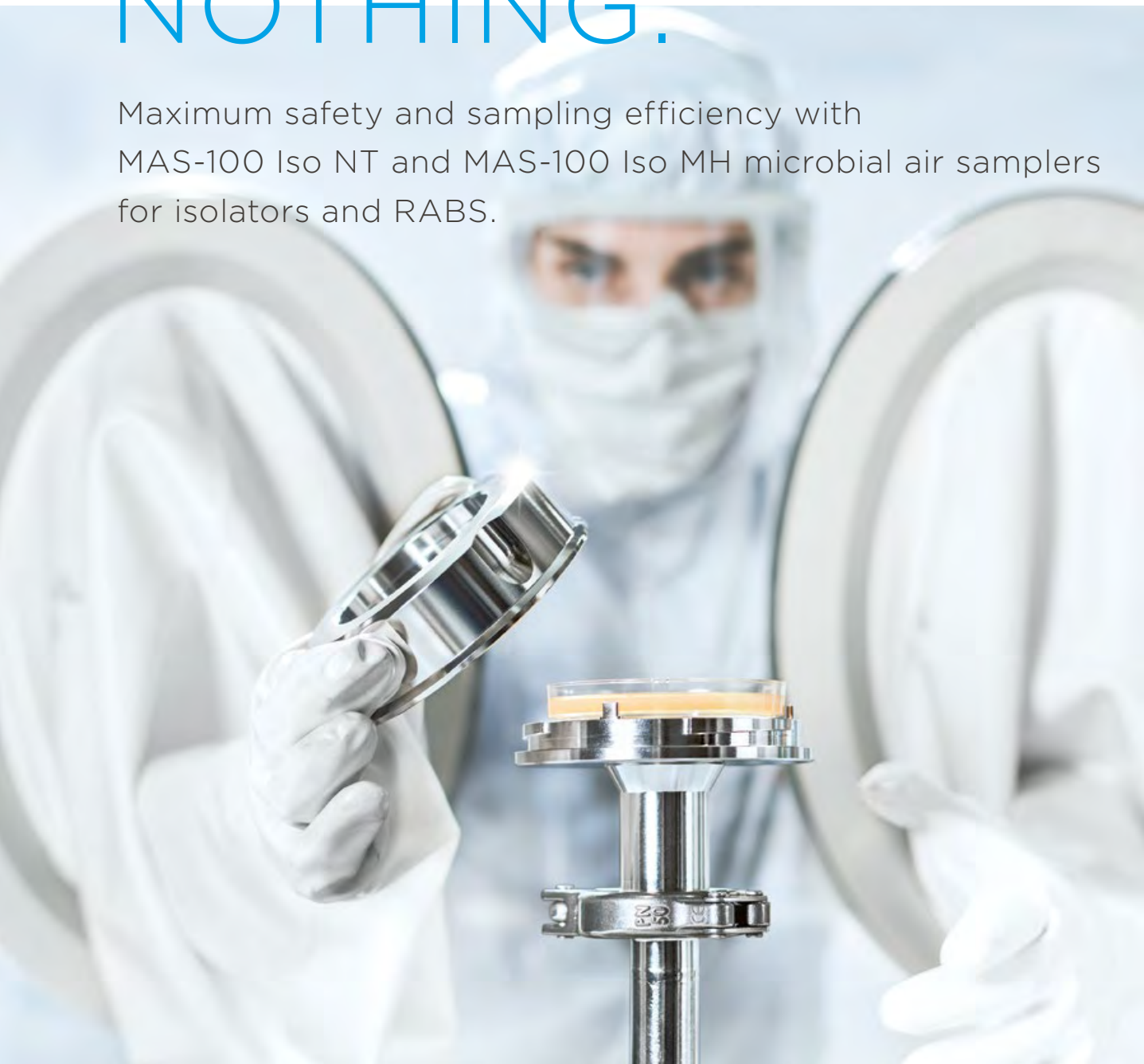




AIR. NOTHING ELSE.

# EXPECT NOTHING.

Maximum safety and sampling efficiency with MAS-100 Iso NT and MAS-100 Iso MH microbial air samplers for isolators and RABS.





## MAS-100 ISO. WINS OVER.

- ✔ Hygienic design and perfect workmanship
- ✔ Maximum protection for the product and environment
- ✔ 100% compliant with all regulations
- ✔ Durable and fail-safe in routine production
- ✔ Space-saving and suitable for all isolators and RABS

# AIR. NOTHING ELSE.

MAS-100 Iso microbial air samplers were specially designed for air monitoring in isolators and RABS. Every detail has been perfected over the years together with established pharmaceutical companies and containment manufacturers. Simple integration, decontamination and calibration are just as important as the complete documentation and precision of microbial air samplers.

## WHEN MAXIMUM SAFETY COUNTS.

All moving parts of MAS-100 Iso microbial air samplers are located outside the containment to minimise the risk of contamination inside the containment. All internal elements are made of high quality stainless steel. They can be easily cleaned and decontaminated with gaseous or vaporized hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>).

### HIGHEST SAMPLING EFFICIENCY & LONG-TERM STABILITY

- Precision-machined stainless steel perforated lids for optimal measurement results
- Available in various designs for utmost operating comfort – e.g. perforated lids with handle for hard-to-reach places



### FLEXIBILITY & COMFORT

- MAS-100 Iso base unit with blower, air flow sensor, valves and components
- Contamination-free maintenance thanks to installation outside the critical zone

### EASY TO CLEAN

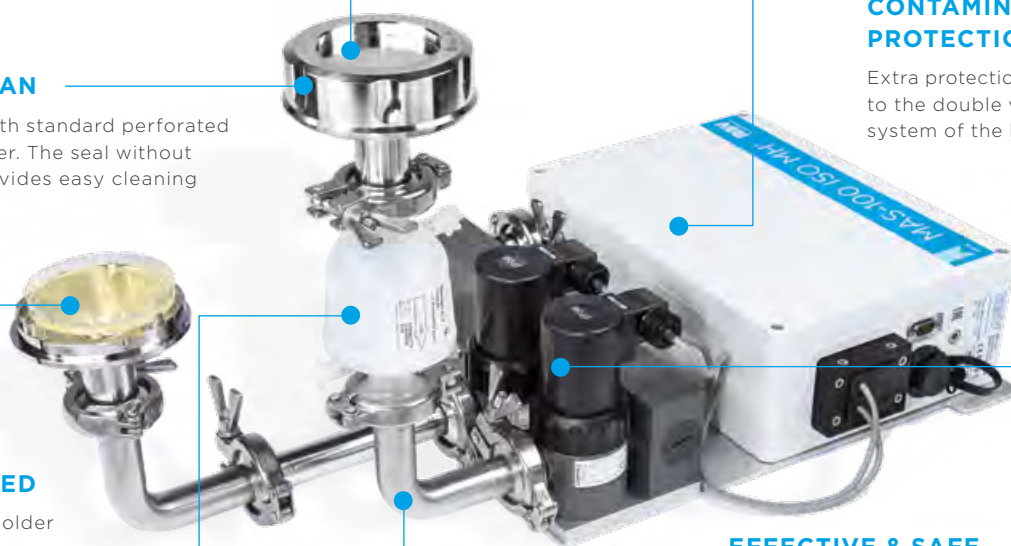
Sampling head with standard perforated lid and plate holder. The seal without a sealing ring provides easy cleaning

### MAXIMUM CONTAMINATION PROTECTION

Extra protection thanks to the double valve system of the base unit

### SMART SOPHISTICATED

EasyClean plate holder for vertical air flow



### EFFECTIVE & SAFE

Pipe/hose system connects the MAS-100 Iso base unit with the sampling head

### ADDITIONAL PROTECTION

Optional HEPA filter protects equally employees and the environment from exposure to highly active substances



**MAS-100 ISO MH AND NT  
IN DETAIL**

[www.mbv.ch/en/iso](http://www.mbv.ch/en/iso)





# MH

## MH OR NT. RIGHT EITHER WAY.

The MAS 100 Iso MH microbial air sampler is the newest microbial air sampler of the MAS-100 Iso product family. A base unit can accommodate up to four sampling heads. The MAS-100 Iso NT has the same sampling efficiency as the MAS-100 Iso MH, but it can only accommodate one sampling head. The integrated touch display ensures convenient operation of the microbial air sampler.

### ✓ MAXIMUM SAFETY

- Developed according to GAMP, fully validated according to ISO 14698 and EN 17141
- Suitable for use in environments to ISO 14644 cleanliness Class 5 (GMP Grade A)
- Automatically startable in-line decontamination of the sampling head, pipe & hose system and outer valve with vaporized or gaseous H<sub>2</sub>O<sub>2</sub>
- Integrated mass flow sensor with temperature and pressure compensation controls air flow and guarantees sampling that is independent of the environmental conditions

# NT



### ▴ SPECIFICATIONS

- Air flow is 100 standard litres per minute (SLPM)
- Air flow accuracy  $\pm 2.5\%$
- Sampling efficiency  $d_{50} = 1.1\mu\text{m}$  @ 100 SLPM
- Stainless steel sampling head to EN 1.4435 (X2CrNiMo18-14-3) according to BN2 (electropolished pharmaceutical quality) with surface roughness  $RA < 0.8\mu\text{m}$
- Base unit dimensions: length 28.3 cm, width 23 cm, height 16 cm
- Base unit weight approx. 7.5 kg (without sampling head)
- Maximum pipe & hose length from sampling head to electronic unit up to 50 m for MAS-100 Iso MH and 10 m for MAS-100 NT
- Operation with 90 - 100 mm Petri dishes or GrowthDirect plates
- Network integration of your choice - Ethernet, ProfiNet, ProfiBus, Digital I/O, USB
- MAS-100 Iso MH with 1 to 4 sampling points, base unit can be exchanged during operation
- MAS-100 Iso NT with 1 sampling point and touch display

# PERFECTION CAN BE SO SIMPLE.

## HIGHEST QUALITY STANDARD

The microbial air samplers are manufactured from high-quality, particle-free components in accordance with the highest Swiss quality criteria. All parts are manufactured and assembled with utmost care and attention to detail. They guarantee long-lasting, trouble-free operation.

## SIMPLE SOFTWARE INTEGRATION

MAS-100 Iso microbial air samplers win over not only because of their excellent hardware, but also because of simple software integration into higher-level control systems.



## COMPREHENSIVE DOCUMENTATION

All control functions can be automated with complete documentation. We also provide CAD drawings. Thus, the integration of your microbial air sampler in the isolator can be perfectly planned.



## CALIBRATION

The air flow of a microbial air sampler influences the collection efficiency and thus the microbial measurement result. Therefore, the air flow should be professionally verified annually. For the calibration of MAS-100 Iso air samplers we offer three flexible solutions:

1. Send your air sampler to our service center in Switzerland.
2. Our service engineer or a certified service partner will calibrate the instrument at your site.
3. Calibrate your instrument independently using the MAS-100 Regulus® digital anemometer.



In any case, we ensure that the calibration of your air sampler can be traced back to international standards via the certified MAS-100 Regulus digital anemometer and via our ISO 17025 accredited calibration laboratory.

CONTACT US.  
WE ARE HAPPY TO  
PERSONALLY INTRO-  
DUCE YOU TO OUR  
AIR SAMPLERS.

Andy Zingre  
Sales Manager  
andy.zingre@mbv.ch  
T +41 44 928 30 86



### SERVICE CENTER

MBV AG  
Industriestrasse 9  
8712 Stäfa  
Switzerland

service@mbv.ch  
T +41 44 928 30 90  
www.mbv.ch