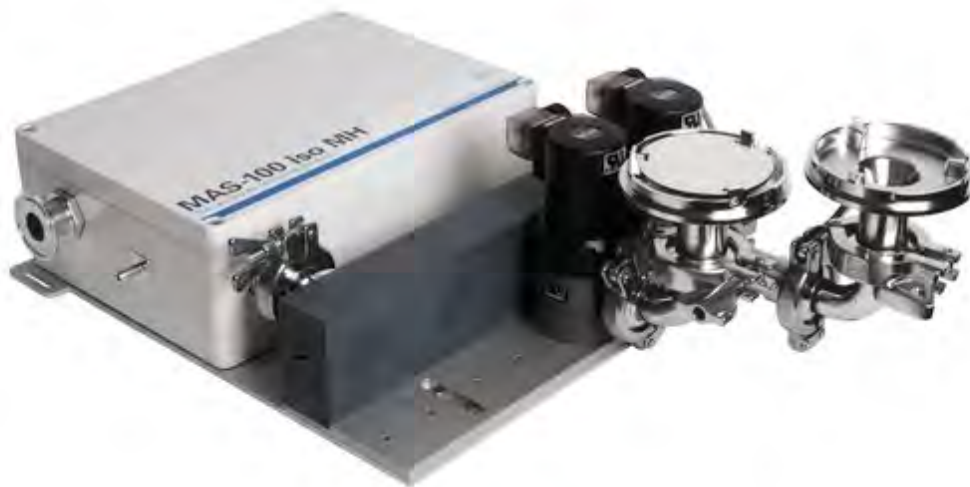


СИСТЕМА КОНТРОЛЯ ВОЗДУХА MAS-100 ISO MH



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The MAS-100 Iso MH®

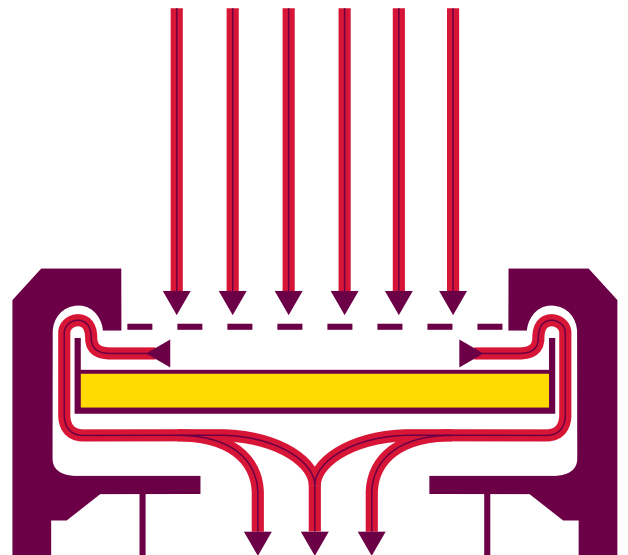
Advantages of the multi head system

- Manufactured as an IP65 system connecting up to 4 individual sampling heads
- Tubing length: 1 meter from instrument to manifold and 5 – 10 meters from manifold to sampling head (independently calibrated)
- Unique overlapping decontamination cycle
- Lower investment and running costs than equivalent number of single head systems
- Can be expanded
- Innovative double valve system
- Sampling modes: Standard, SQS and CNS
- Alarm and sampling protocols
- Innovative high security decontamination cycle



The isolator air monitoring system MAS-100 Iso MH®

The MAS-100 Iso MH® is designed for monitoring microbiological contamination of the air in isolators. A unique safety concept permits the installation of various sampling heads for standard 90 – 100 mm Petri dishes at the critical control points while all electronic and moving parts remain outside the critical zone. The MAS-100 Iso MH® has an additional internal pump with flow control for automatic decontamination of the sampling head and the aspiration tube. An innovative double valve system enables the sampling heads to be integrated into the decontamination process of the isolator. To avoid dead spaces the aspiration will continue to run during the change from head 1 to head 2, and so on. Each unit has an air pump and a decontamination pump and is fully autonomous. The MAS-100 Iso MH® is built according to GAMP 5 and corresponds to the ISO 14698 standard. It is a completely validated system designed for the highest demands.



Functional principle

The MAS-100 Iso MH® is a high-performance instrument that is based on the Anderson impaction principle. It directs the airflow onto a standard Petri dish containing agar medium. After a collection cycle, the Petri dish is incubated and the colonies counted.

Key features and benefits

- H₂O₂ decontamination possible with any tubing length
- Fully meets d50 regulation
- Ethernet or Profibus interface and potential-free in/out contacts
- Easier installation than 4 individual samplers
- Flow rate: 100 SLPM (auto-regulated, flow sensor)
- 10 minutes for a flow of 1m³
- Impaction speed: 20 m/s
- 300 x 0.6 mm hole sample head
- Stainless steel or aluminum sample heads
- Small footprint
 - Fewer power connections
 - Fewer computer cable connections
 - Low power consumption
- Each head can be fitted with a filter (opticap 4 inch and 5 inch) for cytotoxic applications
- Same collection principle and efficiency as all other MAS-100® instruments



Technical Specifications for MAS-100 Iso MH®

Feature	Specification
Sampling head	h x Ø 14 x 5.5 (2.7 kg)
Instrument (control unit only)	l x w x h 38 x 23 x 12 (6.8 kg)
Airflow	100 SLPM
Sampling volume	selectable from 1 – 2,000 litres
Impaction speed	approx. 20 m/sec
Sampling head	Stainless steel
Operation	Over PC
Automatic calibration cycle	
Ethernet, USB, RS232 ports, Digital in/outputs	
Automatic in-line decontamination cycle	

Ordering Information

Description	Catalog No.
MAS-100 Iso NT MH® Control Unit, 1 head	1.17174.0001
MAS-100 Iso NT MH® Control Unit with Profibus, 1 head	1.17177.0001
MAS-100 Iso NT MH® Control Unit with Ethernet, 1 head	1.17178.0001
MAS-100 Iso NT MH® Control Unit, 2 head	1.17118.0001
MAS-100 Iso NT MH® Control Unit with Profibus, 2 head	1.17144.0001
MAS-100 Iso NT MH® Control Unit with Ethernet, 2 head	1.17145.0001
MAS-100 Iso NT MH® Control Unit, 3 heads	1.17146.0001
MAS-100 Iso NT MH® Control Unit with Profibus, 3 headss	1.17147.0001
MAS-100 Iso NT MH® Control Unit with Ethernet, 3 heads	1.17148.0001
MAS-100 Iso NT MH® Control Unit, 4 heads	1.17149.0001
MAS-100 Iso NT MH® Control Unit with Profibus, 4 heads	1.17155.0001
MAS-100 Iso NT MH® Control Unit with Ethernet, 4 heads	1.17157.0001

Accessories

Description	Catalog No.
MAS-100 Iso NT® Perforated lid, stainless steel, 300-hole edge protected	1.09189.0001
MAS-100 Iso NT® Perforated lid, stainless steel, 400-hole edge protected	1.09222.0001
MAS-100 Iso NT® Base for sampling head, stainless with Tri-Clamp and gasket	1.09328.0001
MAS-100 Iso NT® Easy clean base for sampling head, stainless steel, with 1 Tri-Clamp & 1 gasket	1.17091.0001
MAS-100 Iso NT® Perforated lid, stainless steel, 300-hole	1.09329.0001
MAS-100 Iso NT® Perforated lid, stainless steel, 400-hole	1.09424.0001
4" Opticap XL 4	KTGRA04TT3
5" Opticap XL 5	KTGRA05TT1
M Air T® Isolator Tubing 3 m	ATBTUBE01
Flexible tube connector	PF01501
MAS-100 Iso NT® Elbow Joint with 2 Tri-Clamps	1.17083.0001
MAS-100 Iso NT® Tri-Clamp, stainless steel	1.09440.0001
MAS-100 Iso NT® Dust Cover, stainless steel	1.09644.0001
MAS-100 Iso MH® Power supply	1.09784.0001
MAS-100 Iso NT® Silicone gasket	1.170.840.001
MAS-100 Iso NT® Pressure Test Kit	1.170.850.001
MAS-100 Iso NT® Silicone gaskets for easy clean base	1.170.990.001

Validation Protocol

Description	Catalog No.
Validation Protocol MAS-100 Iso MH®	MAMHA4VP1



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