

СИСТЕМА КОНТРОЛЯ ВОЗДУХА MAS-100 ISO NT



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MAS-100 Iso NT®

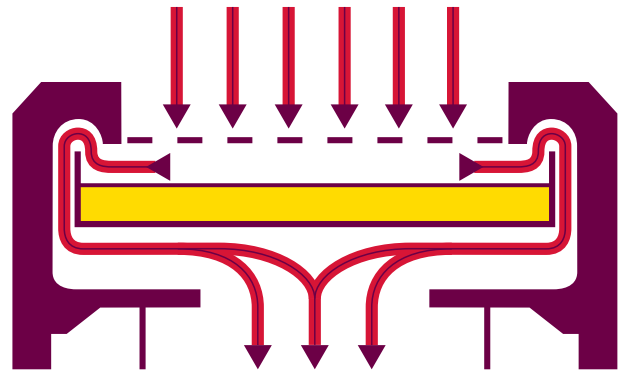
Introduction

The MAS-100 Iso NT® is specially designed for monitoring microbiological contamination of the air in aseptic production areas and isolators with the rigorous requirements of the pharmaceutical industry in mind. 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 NT® has an advanced, integrated pump with flow control for automatic decontamination of the sampling head and the aspiration tube. The MAS-100 Iso NT® is built according to GAMP 4 and corresponds to the ISO 14698 standard. It is a completely validated system designed for the highest demands.



Functional principle

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



heipha® ICR and ICRplus Settle Plates

The heipha® ICR and ICRplus Settle Plates are produced under aseptic conditions, gamma-irradiated and triple-bagged, making them optimal for active air monitoring with MAS-100® Microbial Air Samplers. All of the MAS-100® Air Samplers have been validated according to ISO 14698 using heipha® ICR and ICRplus Settle Plates – they all showed the same reliable results in physical and biological efficiency testing.





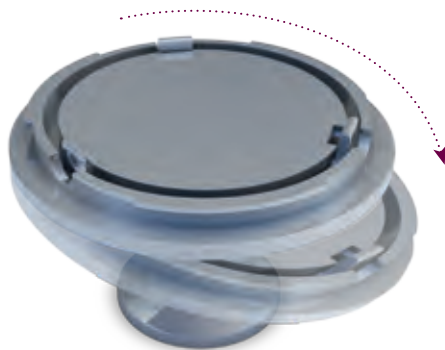
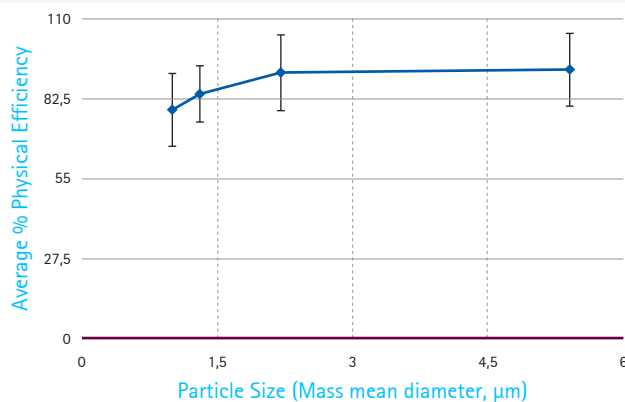
Key Features

- Integrated mass-flow sensor
- Easy network connection of up to 9 units via USB
- Inlet/outlet on the same side
- 360° rotatable display
- Stainless steel head available
- Software in several languages
- Double valve security system
- Active sampling flow control
- Active decontamination flow control
- Protected mode/user protection
- Alarm log file
- Sample log file
- IP54 model available
- 3/4 inch Tri-Clamp connection

Advantages

- Easy installation
- Easy software navigation
- Uses standard 90 – 100 mm Petri dishes
- GAMP 4 validated
- Hands free, in-line decontamination
- Based on established Andersen impaction principle
- Fully meets the new d50 regulation
- Fully compliant design according to ISO 14698 using heipha media
- Same collection principle and efficiency as all other MAS-100® instruments

MAS-100 Iso NT® Physical Efficiency



Standard Design:

- Petri dish 90 – 100 mm, adjustable
- Horizontal and vertical flow
- Autoclavable



Easy Clean Design:

- Petri dish 90 – 100 mm, not adjustable
- Vertical flow only
- Autoclavable and easy cleaning, no dead spaces

Technical specifications for MAS-100 Iso NT®

Instrument Features	Specifications
Nominal airflow	100 SLPM $\pm$ 2.5 % (Standard litres per minute on mass flow)
Dimensions	16 x 28.3 x 23 cm (L/W/H)
Weight*	7.5 kg without sampling head
Power	110 – 240 V, 1.5 A, 50 – 60 Hz
Power input	DC 24 V, 3.25 A, 65 W max.
Max current	2.5 A
Display	Backlit liquid crystal display
Preset sampling volumes	100, 250, 500, 750 and 1,000 SLPM
User definable sampling volume range	1 to 2,000 SLPM
Material	Anodized aluminum
Valves Rigid	PVC/Viton®/SS
Anemometer	Hot wire, numeric control
	Alphanumeric liquid crystal display, 2 x 8 characters
Hot-wire anemometer	RTC (Real Time Clock) battery; lifetime of approx. 10 years
Guidelines	73/23/EEC, 89/336/EEC, DIN EN 61326-1:1997, DIN EN 61010-1:2001, GAMP 4.0:2001
CE Approval	EN 61000-4-2; EN 61000-4-4; EN 61000-4-5; EN 61000-4-11; EN 61000-4-8; EN 61000-4-6; EN 61000-4-3

Technical specifications for MAS-100 Iso NT® Sampling Head

Sampling Head Features	Specifications*
Weight*	1.5 kg
Material*	316L stainless steel
Connector	3/4" Tri-Clamp
Diameter	10.9 cm
Height	9 cm

* dependent on material selected

Ordering information MAS-100 Iso NT®

Description	Catalog No.
MAS-100 Iso NT® control unit	1.09168.0001
MAS-100 Iso NT® control unit with Profibus	1.09173.0001
MAS-100 Iso NT® control unit with Ethernet	1.09174.0001

Validation Protocol MAS-100 Iso NT®

Description	Catalog No.
Validation Protocol MAS-100 Iso NT®	MAISA4VP1



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