

Eliminate the risk of cleanroom cross-contamination

For highly controlled areas and cleanrooms use the MAS-100 NT® microbial air sampler with air outlet particle filter

As portable air samplers are sometimes moved and used across environments with different levels of microbial contamination, there is a potential risk of cross-contamination between areas.

ISO class 5 GMP Grade A environments

If instruments are used in different cleanroom classes, there is a minor risk that particles may be carried over inside an instrument. Ensure peace of mind by mounting a HEPA H13 exhaust air particle filter to your sampler.

Eliminate particle carry-over using our MAS-100 NT® viable air sampler with HEPA air exhaust filter

- Particle carry-over is essentially eliminated by the insertion of a HEPA filter
- The filter has no influence on the airflow calibration or microbial sampling efficiency
- Heavy usage in an uncontrolled environment does not reduce the filtration efficiency

Air inlet

Perforated lid to accelerate air onto agar plates

Blower unit

Brushless motor drives air blower controlled by flow sensor

NEW filter

H13 particle filter mounted at the air exhaust

Control unit

Display, control panel, electronics and battery

Figure 1 – MAS-100 NT® equipped with a H13 particle filter



SigmaAldrich.com/demo-mas-100NT





Figure 2: Transfer of particles from high to low contaminated environments.

	0.3 µm	0.5 µm	1.0 µm	3.0 µm	>5.0 µm	Total Particles
ISO 5 particle limit	10200	3520	832	N/A	N/A	N/A
ACS Plus: Clean air in workbench (mean, n=2)	15	8	5	2	7	37
ACS Plus particle Counter: Non-controlled air (mean, n=2)	762'314	186'569	45'432	4'462	5'923	1'004'700
Reference: MAS-100 NT® without filter (mean, n=10)	701'746	163'906	42'185	4'109	4'956	916'901
MAS-100 NT® w. Filter (mean, n=10)	69	6	1	0	0	76
Filter Retention Efficiency	99,99%	100%	100%	100%	100%	99,99%
Max particle count with filter	119	14	6	0	1	140
Min particle count with filter	6	1	0	0	0	0

Table 1: Filtration efficiency of the HEPA H13 filter assembly for the MAS-100 NT®
For reference the permissible concentrations of ISO Class 5 are given.

Ordering information

Product Description	Cat. No.
MAS-100 NT® with Filter	1.17274.0001
MAS-100 NT Ex® Ex with Filter	1.17275.0001
Filter Mounting Kit	1.17276.0001
Replacement Filter	1.17278.0001

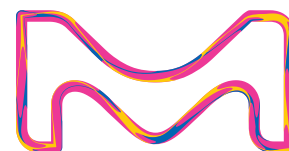
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