

AirPort MD8 The New Portable Air Sampler



AirPort MD8 – Portable, Reliable, Fast.



AirPort MD8 is the new air sampler for the pharmaceutical industry, biotechnology, food and beverage industry, for hospitals, and for measurements within the scope of environmental protection and occupational safety.

Benefits offered by Sartorius AirPort MD8:

- Battery operated and portable so it can be used everywhere.
- Battery power level clearly indicated so constant performance during sampling is guaranteed.
- Ergonomically designed and easy to clean.
- User friendly prompting with the option of four languages: English, French, German and Spanish.
- Flexible options for customized use including adjustable air throughput and air flow rate.
- Parameters last used are stored even after automatic shut-off.
- Can be calibrated on-site.

Utilizes Gelatin Membrane Filter Method, allowing for reliable and accurate results.

The Gelatin Membrane Filter Method offers:

- High retention rate for microorganisms and viruses.
- Protection of microorganisms sampled from drying out – for a relevant and meaningful sampling time.
- Use of a variety of nutrient media.
- The solubility of the gelatin membrane filter allows further applications (e.g. rapid microbiology, virus sampling and sampling of high bacterial concentrations).

AirPort MD8 can also be used with BACTair™ culture media plates.



Technical Specifications | Ordering Information

AirPort MD8

| | |
|---|--|
| Air flow control | by an integrated impeller wheel |
| Air flow rate adjustable in three steps | 30 l/min., 40 l/min., 50 l/min. and 125 l/min. (only when BACTair™ culture media plates are used) |
| Pre-set sample volumes | 25, 50, 100, 250, 500, 750 and 1000 liters |

Table of correlation of sampling volumes | sampling times at the given air flow rates

| Sampling volume in liters (l) | 25 l | 50 l | 100 l | 250 l | 500 l | 750 l | 1000 l |
|---|---|-------|-------|-------|--------|--------|--------|
| Sampling time in seconds (s) | | | | | | | |
| at 30 l/min. flow rate | 50 s | 100 s | 200 s | 500 s | 1000 s | 1500 s | 2000 s |
| at 40 l/min. flow rate | 37.5 s | 75 s | 150 s | 375 s | 750 s | 1125 s | 1500 s |
| at 50 l/min. flow rate | 30 s | 60 s | 120 s | 300 s | 600 s | 900 s | 1200 s |
| at 125 l/min. flow rate | 12 s | 24 s | 48 s | 120 s | 240 s | 360 s | 480 s |
| Additionally user-definable sampling volumes | from 10 to 2000 liters in 5-liter increments | | | | | | |
| Total sampling time with one battery charge | approx. 4.5 hours at 50 l/min., 4 hours at 125 l/min. | | | | | | |
| Power consumption | 5–14 Watt depending of filter pressure drop | | | | | | |
| Noise level | for gelatin membrane filters 48 dB (A) max. | | | | | | |
| Weight | approx. 2.5 kg | | | | | | |
| Dimensions (L×W×H) | 300×135×165 mm | | | | | | |
| Certified for compliance with the CE requirements | | | | | | | |

Battery

| | |
|--------------------------|--|
| Rechargeable battery | NiMH 16.8 volts/3800 mAh |
| Battery charger | input 100–240 V 47–63 Hz/600 mA; output 24 V/1000 mA |
| Charging time of battery | approx. 4.5 hours when completely discharged |
| Battery charger | with changeable plugs for worldwide use |

AirPort MD8 can be used during recharging⁴



Specifications of Gelatin Filter Disposables

| | |
|-----------------------------------|--|
| Materials | gelatin (water soluble) and Cyrolite holder |
| Nominal pore size | 3 µm |
| Filter diameter | 80 mm for standard 90 mm agar plates |
| Limiting operating conditions | max. 30°C at 85% relative humidity |
| Retention of bacteria and viruses | 99.9995% for Bac. sub. niger spores at 0.25 m/s inlet velocity 99.94% for phage T3 (coli phage) at 80% relative humidity and 0.3 m/s inlet velocity |

Specifications of BACTair™ Culture Media Plates

| | |
|---------------------------------------|---------------------------|
| Material | Polystyrene |
| Dimensions | 116×24 mm |
| Number of impaction holes | 400 holes, each Ø 0.47 mm |
| High particle retention for particles | > 0.65 µm |

Ordering Information

| Description | Order No. |
|---|-----------|
| Air sampler AirPort MD8 incl. adapter for gelatin filter disposables (17801) and battery charger (69898525) | 16757 |

Accessories for AirPort MD8

(further accessories on request)

| | |
|---|----------|
| Adapter for gelatin filter disposables | 17801 |
| Adapter for BACTair™ culture media plates | 17803 |
| Filter holder | 17655 |
| Filter stack (10 filter holders) | 17656 |
| Battery charger | 69898525 |

Gelatin filter disposables (sterile and individually packed)

| | |
|--|---------------|
| Pack of 10 disposables (single packed) | 17528-080-ACD |
| Pack of 10 disposables (triple packed) | 17528-080-BZD |
| Pack of 10 disposables, but label on innermost bag | 17528-080-VPD |

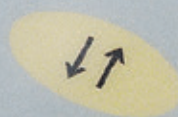
Gelatin disc filters for filter holder 17655

| | |
|------------------------------|---------------|
| Pack of 50 filters (sterile) | 12602-080 ALK |
|------------------------------|---------------|

Culture media plates

| | |
|--|------------------|
| BACTair™ culture media plate with TSA, 110 mm, sterile and individually packaged, 10 pcs. | 14320-110----ACD |
| BACTair™ culture media plate with Sabouraud Agar, 110 mm, sterile and individually packaged, 10 pcs. | 14321-110----ACD |
| Covers for BACTair™ culture media plates, 10×2 units individually, sterile packaged | 1ZPX-D0002 |

Volume 1000L
F-rate 125L/min



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