



sartorius stedim
biotech

AirPort MD8 The New Portable Air Sampler



turning science into solutions

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 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 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) Sampling time in seconds (s)	25 l	50 l	100 l	250 l	500 l	750 l	1000 l
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 at 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 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	
Culture media plate with TSA, 110 mm, sterile and individually packaged, 10 pcs.	14320-110----ACD
Culture media plate with Sabouraud Agar, 110 mm, sterile and individually packaged, 10 pcs.	14321-110----ACD

Volume 25L
F-rate 50.0L/min



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