

CORIOLIS[®] μ

MICROBIAL AIR SAMPLER FOR INDOOR AND OUTDOOR AIR BIO-CONTAMINATION



- ▶ Concentrates airborne particules in a liquid sample
- ▶ Long time monitoring - up to 6 hours
- ▶ New information on bio-aerosols even for VNC*
- ▶ Compatible not only with culture but also with RMM's
- ▶ Validated method by third parties - conforms to ISO 14698

www.coriolis-air sampler.com

- ▶ Public Health & Safety
- ▶ Environment
- ▶ Veterinary / Food industry
- ▶ Pharma / Cosmetic industry



- ▶ Portable & battery operated
- ▶ Efficient & user-friendly
- ▶ World wide references
- ▶ Validated by independant laboratories (HPA - Health Protection Agency, UK)

▶ Overtake the traditional methods

The Coriolis μ was developed to go beyond traditional techniques performances. Traditional techniques indeed rely on the impaction of particles on a solid agar medium and are thus limited by low flow rates, unreliable impaction and a longer analysis time. They are also restricted to cultivable flora studies.

In contrast, the wet walled cyclonic Coriolis rapidly collects and concentrates biological particles into liquid at a high air flow rate (300 lpm); the sample liquid output is then compatible with a number of Rapid Microbiological Methods (RMM) including PCR, immuno-analysis, flow cytometry... and reliable results can be obtained in only few hours!

Even when the concentration of target particles is low or when events occur unexpectedly, the Coriolis μ is the ideal solution!

▶ From indoor to outdoor air sampling



Hospital & Cleanrooms



In-house & Offices



Industrial sites & Farms

▶ Technical specifications

SPECIFICATIONS

Dimensions	22 x 33 x 36 cm
Weight	3 kg (with battery) 4,5 kg with option

OPERATING DATA

Air flow rate	100 to 300 L/min
Sampling time	1-10 min / up to 6 h
Liquid output volume	15mL

EFFICIENCY

Collected particles sizes	> 0.5 μ m
Collection efficiency	$D_{50} < 0,5 \mu$ m

MORE TECHNICAL DATA

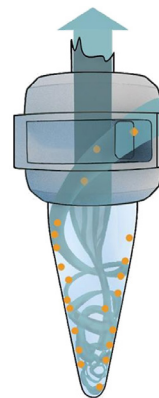
Autonomy on battery	1 hour
Decontamination	Hydrogen peroxide

▶ Adapted to any micro-organism research

Thanks to the cyclonic technology, Coriolis μ is adapted to any scientific research in microbiology: toxins, virus, bacteria, molds, pollens, spores and even more!

- ▶ Endotoxins, respiratory syncytial virus, Influenza, bacteriophages, mycoplasma, *Legionella*, *Stachybotrys*, *Aspergillus fumigatus*, *Pneumocystis*, *Serpula Lacrymans*, birch, oak, *Bacillus anthracis*...etc

▽ Cyclonic technology: transfer airborne particles into a sterile liquid sample



- 1- Sterile cone prefilled with specific liquid sample
- 2- Air is aspirated and drawn into the cone forming a vortex
- 3- Particles are centrifuged into the wall of the cone and separated from air
- 4- Contaminants in the liquid sample are ready for analysis

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