

SAMPLERS / COUNTERS



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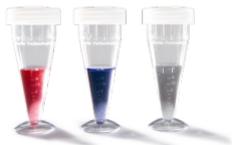
Partner Bertin Technologies



Bertin Technologies is een wereldwijde leverancier van geavanceerde oplossingen voor stralingsdetectie en milieumonitoring, gespecialiseerd in handmonitoren, persoonlijke elektronische dosimeters, milieumonitoringsystemen en afval- en recyclingbeheertechnologieën. Hun instrumenten zijn ontworpen om te voldoen aan de strenge eisen van nucleaire faciliteiten, emergency response teams en milieu instanties.

Product offering

Coriolis Consumables - Bertin Instruments



Coriolis RECON - Bertin Instruments



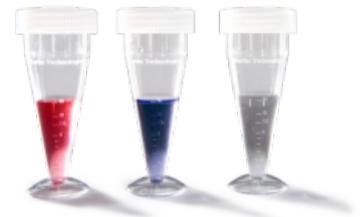
Coriolis Micro - Bertin Instruments





Coriolis Consumables - Bertin Instruments

Coriolis consumables are part of the cyclonic technology: the separation of the airborne particles from the air flow is due to the air flow rate, the air intake geometry, the design of the cones and the collection liquid (surfactant in low concentration).



Introduction video

Consumables

- cones & caps : The cones and caps are designed specifically for the use with the Coriolis μ
- collection liquid doses
- LTM consumables : collection liquid in bottle and tubing kit
- air intake : depending of your research you can adapt the air intake
- standard air intake : air take compatible with all Coriolis for classical samplin
- LTM air intake : dedicated to long time monitoring collection (only compatible with the LTM platform)
- 25 mm connection LTM : designed to propose a hose attachment (testing chamber, confined space ...)

Advantages Coriolis consumables

- dedicated cones to perform high efficiency collection
- adaptor to connect to any 25 mm diameter connector
- easy set up with calibrated 15 ml collection liquid dose
- liquid collection compatible with any downstream experiment
- cones available sterile and non-sterile

Please contact our product specialist.

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Coriolis RECON - Bertin Instruments

The Coriolis RECON is a portable, light and ruggedized bio-air sampler for biological warfare agents detection, dedicated to CBRN teams or first responders, with quick deployment in case of an event with biological attack suspicion. The Coriolis RECON have been designed to collect large concentrations of aerosols in the breathable range of 0.5 to 10 μm with an air flow rate at 600L/min, thus being more representative of the environment than traditional bio-aerosol samplers.

Thanks to its ability to collect bio-aerosol particles into liquid format, this system can be used with rapid identification techniques for biological agents (immunoassay, PCR, etc.) to provide an early warning of aerosolized biological warfare agents.



Introduction video

Advantages Coriolis RECON

- the most efficient concentration of biological warfare agent
- high air flow rate
- compatible with any downstream experiments for rapid identification
- bio surveillance with long time monitoring - up to 6 hours
- quick deployment in a military / first responder context

Download the datasheet or contact our product specialist.

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Coriolis Micro - Bertin Instruments

Coriolis μ is an innovative biological air sampler for bio-contamination assessment, mainly dedicated to air quality control and air quality monitoring in environmental and pollution research, pharmaceutical, food and veterinary industries, biomedical and health environment...

Based on a cyclonic technology, combined to a high air flow rate, Coriolis μ offers the most efficient particles collection in 10 minutes. The biological particles such as toxins, virus, bacteria, molds, pollens, spores are collected and concentrated in a liquid ready to be analyzed with microbiological and cellular and molecular biology methods.



Introduction video

Advantages Coriolis Micro

- the most efficient concentration of biological particles
- high air flow rate & long time monitoring option - up to 6 hours
- compatible with any downstream experiments - divisible samples for several analysis in parallel
- flexible liquid sample output
- no saturation of the collection media for charged environment

Download the datasheet or contact our product specialist.



Partner **Spectrum Techniques**

Spectrum Techniques Spectrum Techniques is een Amerikaanse leverancier van stralingsdetectie- en meetoplossingen en biedt een uitgebreide reeks detectoren, QA-bronnen (Quality Assurance), alfa-, bèta- en gammaspectrometriesystemen, evenals monsternemers en tellers. Hun producten zijn ontworpen ter ondersteuning van onderwijsinstellingen, onderzoekslaboratoria en industriële toepassingen die precieze en betrouwbare stralingsmetingen vereisen.

Product offering

**ST365 -
Stralingsteller**



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ST365 - Stralingsteller

De ST365 is een veelzijdige stralingsteller die is ontworpen om uit te blinken in routinematige monstertellingstaken in een breed spectrum aan toepassingen, waaronder onderwijs, training, geavanceerd onderzoek, stralingsveiligheid en opkomende technologieën.





Partner **SDEC France**



SDEC Frankrijk is een toonaangevende leverancier van milieumonitoringstechnologieën en biedt een gespecialiseerde reeks samplers en tellers die zijn ontworpen om de radiologische veiligheid in medische omgevingen te ondersteunen. Hun oplossingen helpen ziekenhuizen, laboratoria en onderzoeksfaciliteiten bij het monitoren van lucht- en oppervlaktebesmetting en zorgen ervoor dat gezondheids- en veiligheidsvoorschriften worden nageleefd.

Product offering

Carbon 14 Sampler with 2 Vials - SDEC



Carbon 14 Sampler with 4 Vials - SDEC



Tritium Sampler with 2 Vials - SDEC



DPM 7001 Liquid Scintillation Counter - SDEC



H3R 7000 Airborne Tritium Condenser - SDEC



Single Mast Electrodeposition Equipment - EDP 7000 - SDEC



AS 3000 AEROSOL & IODINE SAMPLER - SDEC



Tritium sampler 4 vials MARC 7000 - SDEC



**AS 5000 Aerosol &
Iodine Sampler -
SDEC**



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Carbon 14 Sampler with 2 Vials - SDEC

The Carbon 14 Sampler with 2 Vials (SDEC) has been designed to capture CARBON gas (CO₂ or CO). It can be equipped with a cooling system that will prevent all sample loss due to evaporation in the feeding bottles.

Carbon 14 Sampler with 2 Vials features:

- in compliance with the nf m60-812-1 norm
- excellent trapping efficiency (close to 99%)
- cooling system to increase sampling length (option)
- good price
- constant evolution of the product
- easy to use
- connectable to all sampling lines

Read more about the Carbon 14 Sampler with 2 Vials on the [SDEC website](#)



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Carbon 14 Sampler with 4 Vials - SDEC

The Carbon 14 Sampler with 4 Vials (SDEC) brings original solutions in the exploitation of sampling systems for carbon gas and carbon water. This sampler is mainly used for the detection of chimney rejects and carbon wastes degassing.

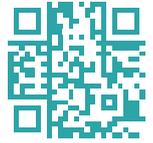


Carbon 14 Sampler with 4 Vials features:

- excellent trapping efficiency (close to 99%)
- cooling system to increase sampling length (option)
- good price
- constant evolution of the product
- easy to use
- connectable to all sampling lines
- in compliance with the NF M60-812-1 norm

Read more about the Carbon 14 Sampler with 4 Vials on the [SDEC website](#)

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Tritium Sampler with 2 Vials - SDEC

The Tritium Sampler with 2 Vials (SDEC) brings original solutions in the exploitation of trapping systems for tritium gas and tritiated water. This collection system is mainly used for the detection of chimney rejects and tritium wastes degassing.



Tritium Sampler with 2 Vials features:

- good trapping efficiency
- cooling system to increase sampling length (option)
- good price
- constant evolution of the product
- very robust
- easy to use
- connectable to all sampling lines

Read more about the Tritium Sampler with 2 Vials on the [SDEC website](#)

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Nuclear Medicine > Samplers / counters

DPM 7001 Liquid Scintillation Counter - SDEC

The DPM 7001 Liquid Scintillation Counter (SDEC) is a mobile liquid scintillation counter equipped with two photomultipliers, giving it a high counting efficiency and low background noise. It is specially designed for the counting of tritium and carbone-14. Due to its small size and its light weight (16kg), it can be transported easily on monitoring sites for quick measurements.



DPM 7001 Liquid Scintillation Counter

features:

- high counting efficiency (H3 > 37%, C14 > 94%)
- low background noise (< 40 CPM)
- light weight : 16 kg
- control and reading on LCD display or on PC (optional software)
- data export in excel format
- two counting channels for two simultaneous countings

Read more about the DPM 7001 Liquid Scintillation Counter on the [SDEC website](#)

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H3R 7000 Airborne Tritium Condenser - SDEC

The H3R 7000 Airborne Tritium Condenser (SDEC) is an innovative instrument in the field of Tritium in air sampling. It collects samples of Tritium in its vapor form and produces results in less than 40 minutes. The sample obtained can be measured down to a detection limit of 0.01 Bq/m³ by deferred measurement using liquid scintillation.



H3R 7000 Airborne Tritium Condenser features:

- quick start mode
- measurement and calculation in real time of the absolute humidity in ambient air in g/m³
- automatic calculation of trapping time depending on the required water quantity
- automatic drying under high temperature of the trapping circuit to avoid a crossed contamination
- selection of the drying time
- USB output : data recuperation on USB key
- thermic printer integrated : printing of data on sticker to place on to sample vial

Read more about the H3R 7000 Airborne Tritium Condenser on the [SDEC website](#)

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Single Mast Electrodeposition Equipment - EDP 7000 - SDEC

The measure of radio-isotopes is used in nuclear medicine to control and follow the contamination level of a patient who has manipulated radio-isotopes. Usually when measuring a radio-isotope, the first thing to do is to trap it and make it deposit on a support.



The Single Mast Electrodeposition Equipment – EDP 7000 system is the most efficient principle for trapping a radio-element in liquid solution. This principle allows to deposit the radio-isotopes contained in a solution onto a metallic plate. To measure the quantity of radio-element trapped, the metallic plate is afterwards placed into a suitable machine (spectrometer or other one).

single mast electrodeposition equipment - EDP 7000 features:

- synthetic materials.
- temperature control of the solution.
- three sizes of solution containers.
- quick screw/unscrew.
- easy maintenance by operator.
- reverse polarity switch.
- independent timer.

Read more about the Single Mast Electrodeposition Equipment on the [SDEC website](#)

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AS 3000 AEROSOL & IODINE SAMPLER - SDEC

The AS 3000 Aerosol & Iodine Sampler (SDEC) has been designed to make sampling of aerosols and iodine on filter papers and/or carbon cartridges. It has many technological innovations like the automatic regulation of air flow and the data report on USB key.



AS 3000 Aerosol & Iodine Sampler features:

- automatic regulation of air flow from 10 to 50 LPM
- diaphragm pump (no maintenance)
- compatible with all paper filters and cartridges
- automatic recognition of filter paper or cartridge per drive scanner option
- independent pump (easy dismantling in case of contamination)
- installation of the filter holder by quick system on horizontal or vertical axis
- operating on power supply or battery
- waterproof keyboard

Read more about the AS 3000 Aerosol & Iodine Sampler on the [SDEC website](#)

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Tritium sampler 4 vials MARC 7000 - SDEC

The Tritium sampler 4 vials (MARC 7000) equipment is designed to sample the tritium which is contained in a volume of air (gas H₃, tritiated water HTO or organically combined). Tritiated water vapor is trapped in the first two feeding bottles by means of the bubbling principle. To trap the tritium which is combined to organic materials, an oxidation reaction is created in the oven. A catalyser is used to lower the combustion level. This causes tritium to react chemically to form tritiated water vapor which is trapped in feeding bottles n°3 & 4. After a certain time, the tritiated water contained in the bottles is measured in a laboratory. The quantity of tritium measured is related to the volume of air which has passed through the equipment.



Tritium sampler 4 vials features:

- excellent trapping efficiency (close to 99%)
- cooling system to increase sampling length (option)
- good price
- constant evolution of the product
- easy to use
- connectable to all sampling lines

Read more about the Tritium sampler 4 vials (MARC 7000) on the [SDEC website](#)

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AS 5000 Aerosol & Iodine Sampler - SDEC

The AS 5000 Aerosol & Iodine Sampler (SDEC) is a stationary equipment made for the sampling of aerosols and airborne iodine at high flow on paper filters and cartridges. It is particularly adapted for continuous sampling in stacks according to ISO 2889 standard.



AS 5000 Aerosol & Iodine Sampler features:

- automatic air flow regulation up to 100 liters per minute (6 Nm³/h)
- mass flow-meter with pressure and temperature compensation : display of the air flow in Nm³
- sampling compartment and electrical separated
- detection of filter clogging or accidental leakages
- safety : sampling head access door with key lock, differential circuit breaker
- alarm report via relay output, (optional Ethernet output)
- sampling parameters settings and clogging level threshold protected by access code
- stationary installation (wall mount) or mobile installation on trolley

Read more about the AS 5000 Aerosol & Iodine Sampler on the [SDEC website](#)