

TRIO.BAS RABS ISOLATOR

TRIO.BAS™

One external command unit completely made in stainless steel connected to 1/3 satellites with bluetooth and cable for charging

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- 100 or 200 litres per minute flow rate model
- Battery charger via cable (110/240 volt)
- Bluetooth for data transfer
- Cable connection for satellites up to 5-20 meters
- Cable for data transfer

- Suitable for 55 mm Contact plates or 90 mm Petri dishes
- More than one different culture media at the same time
- Saving sampling time by doubling the aspirated volume of air

DESCRIPTION

- The RABS ISOLATOR and the satellites are made in AISI 316 stainless steel.
- This air sampler is especially dedicated to customers who make a large number of controls, in different environments, with a large staff rotation and comply with the quality standards and QM/GMP.
- Main customers are pharmaceuticals, cleanrooms and biotech industries.
- A barcode module, thanks to the use of a scanner (barcode reader) with Bluetooth, automatically records the operator, place and plates used for the sampling. The data collected by the barcode reader are transmitted directly to the instrument. This solution is useful for those who already use culture plates with barcode or 2-D barcode (QR Quick Response Code). The data collected are transferred via Bluetooth from the air sampler to a PC or laptop. PC or laptop request a dedicated software (ASPC) installed.
- The data are transferred via Bluetooth between the air sampler and a smartphone or tablet (Android version) and then to a PC or laptop.
- The data may be transferred via cable, too. This is helpful for all companies that, due to internal policy, are not allowed to use the wireless transfer.
- It is possible to work either in manual or automatic mode.
- The battery is recharged by a power cable connected directly to the air sampler.
- While under charging, the air sampler can sample.
- The 200 lts/min air flow reduces the operator time and the time sampling.
- This air sampler allows to monitor separated cleanrooms with a single external command unit. The risk of human contamination is reduced, because the satellite units are permanently inside each cleanroom.
- The use of sterile Daily Shift aspirating heads reduces the risk of contamination.
- The possibility to use 1/2/3 different aspirating heads allows to have 1/2/3 different culture media at the same time or to make sampling BEFORE (at rest), DURING (in operation) and at the END of each processing cycle.

MORE INNOVATIVE AND ESTABLISHED PERFORMANCES

- Stainless steel AISI 316 (command unit + satellite units)
- Complaint according EN/ISO 14968-1, GMP and GLP
- Stainless steel aspirating head with quick bayonet closure, identification number and stainless steel cover to prevent contamination
- Volume of aspirating air: 100 or 200 l/m
- Selected volumes from 30 to 2.000 l/m and 17 preset programs
- The aspirating chamber is suitable for 55 mm Contact plates or 90 mm Petri dishes
- Auto calibration: power/flow electronic real time control
- Power supply system: the instrument can be charged continuously by AC powered source 110/240 Volt 50/60 Hz or by rechargeable batteries (inserted inside the air sampler)
- Cycles battery autonomy: 60.000/70.000 litres
- Language: English, French, German, Spanish, Italian
- Manual and automatic passwords
- Operative aspirating cycles: manual and automatic
- Memorized data: up to 1.000 samplings
- Configuration users and places: 100
- Delayed, remote, start, simultaneous or interval sampling
- Bluetooth connection or cable for data transfer
- Automatic next calibration reminder
- Data integrity CFR 21
- CE mark
- Continuous/trending analysis according USP
- Dimension: 25x13x18h cm
- Weight: 3.150 gr
- Built in ISO 9000 premises

THE MICROBIOLOGICAL MONITORING OF RABS ISOLATOR

The TRIO.BAS RABS ISOLATOR is an extremely flexible instrument that can be easily adapted to any different types of isolators and RABS.

There are different version of satellites:

1. Standard satellite (code 260 - 261). All these satellites are made in stainless steel AISI 316. There is the possibility to use 90 mm petri dishes or 55 mm contact plates with stainless steel aspirating heads or sterile techno polymer "DAILY SHIFT" aspirating head. All types of aspirating head to be ordered separately.

The satellite has small sizes and occupies little space inside the isolator.

Size: diameter 123 x 120H mm, weight 1170 gr. (without aspirating head).

2. Satellite with HEPA filter (code 262 263). This satellite has the same features of the standard model.

It is supplied with an adapter, positioned on one side, to which a HEPA filter is connected for filtering the expelled air. Thanks to this filter, this satellite is typically used in cleanrooms and its integrity should be maintained for a long time. However, the deadline cannot be established because it depends on the frequency of sampler's use. Replacement is recommended every 3/6 months. If the HEPA filter becomes clogged before this period, the sampler alarm system warns the operator that the airflow is irregular and therefore it is necessary the filter's replacement.

Laterally there is a holder that allows to position the lid of the Petri dish during the sampling phase and to avoid contamination during handling of the plate.

Size: diameter 120 x150h mm - weight 1260 gr.



Satellite with HEPA filter (code 262 263)

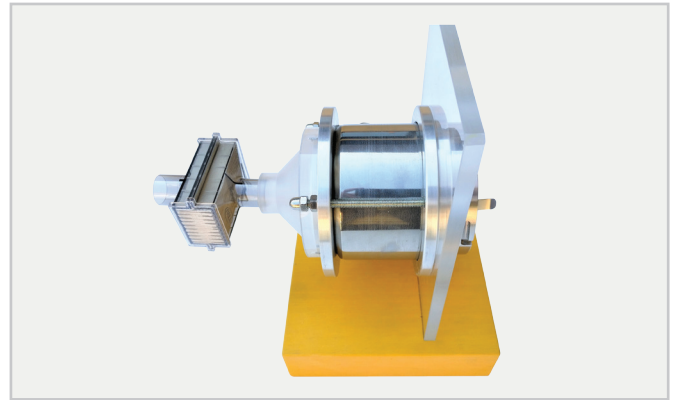
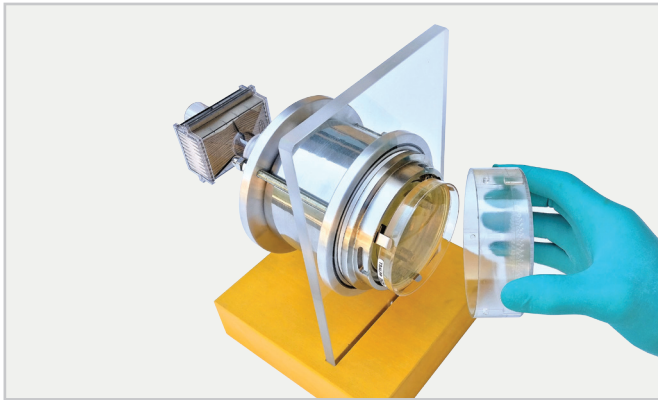


s/s holder for lid of Petri dishes (code 273)

3. Satellite wall with HEPA filter (code 258 259). This satellite has the same characteristics as the standard model.

This satellite is hermetically fixed inside a through hole in the isolator's wall or on a working surface or RABS. Only the aspirating chamber remains inside the isolator. The air is expelled outside of the isolator.

The great advantage of this satellite is that it takes very little space inside the isolator and the sampled air is not recycled inside, but is expelled outside. A HEPA filter located at the bottom of the satellite prevents contamination when the sampler is not operating.



Satellite wall with HEPA filter (code 258 - 259)

CONNECTIONS BETWEEN THE CONTROL UNIT AND THE SATELLITES

The satellites can be connected to the control unit in different ways:

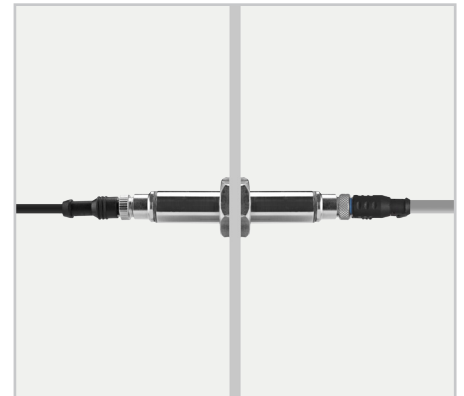
- **Flexible cable (code 265)** with a max extension of 5 mt. This cable is complete with 4-pin male/female connectors. On request, it is possible to supply cables with a length up to about 20 meters. This cable is for all satellites.
- **Stainless steel rigid connection (code 266)** with a length of 170 mm. The satellite can remain suspended. Only for standard satellites.
- **Stainless steel wall connection (code 267)** to guarantee an hermetic passage through a wall. The flexible cables are not included. Only for standard satellites.



Male/female connectors



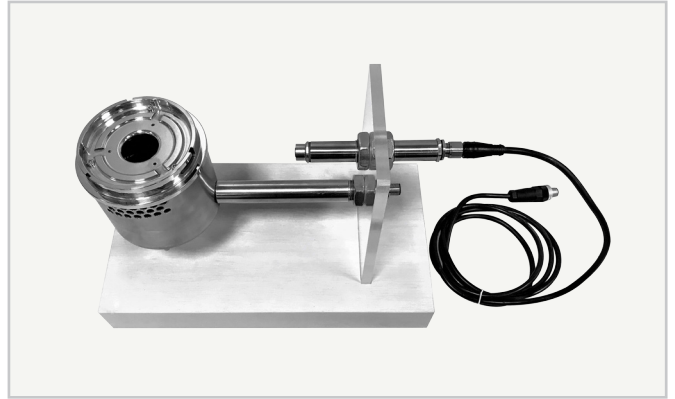
Flexible cable (code 265)



s/s wall connection (code 267)



s/s rigid connection (code 266) - (satellite ordered separately)



Two examples on how to fix a standard satellite with a s/s rigid connection (code 266) and with a s/s wall connection (code 267)

IDENTIFICATION CODES

Code	TRIO.BAS RABS ISOLATOR with 1 SATELLITE PACK (*)
268K	TRIO.BAS RABS ISOLATOR 100 Contact with 1 Satellite Pack
269K	TRIO.BAS RABS ISOLATOR 100 Petri with 1 Satellite Pack
270K	TRIO.BAS RABS ISOLATOR 200 Contact with 1 Satellite Pack
271K	TRIO.BAS RABS ISOLATOR 200 Petri with 1 Satellite Pack

(*) each PACK consists of: 1 TRIO.BAS RABS ISOLATOR with battery charger, 1 calibration certificate, 1 s/s satellite, 1 s/s aspirating head with s/s cover head, 1 cable connection (5 mt), 1 robustus medium carrying case.

Code	SATELLITE UNIT PACK (*)
260K	SATELLITE UNIT Contact PACK
261K	SATELLITE UNIT Petri PACK

(*) each PACK consists of: 1 s/s satellite, 1 s/s aspirating head with s/s cover head, 1 cable connection (5 mt), 1 light case carrying case.

(**) second or third satellite to be added to basic sampler.