TRIO.BAS RABS ISOLATOR

TRIO.BAS™

One external command unit fabricated completely in stainlees steel connected to 1 satellites with Bluetooth capability and cable for charging

- 100 or 200 litres per minute flow rate model
- Battery charger via cable (110/240 volt)
- Bluetooth for data transfer
- Cable connection for satellites from 5 to 20 meters
- Suitable for 55 mm Contact plates or 90 mm Petri dishes
- Cable for data transfer
- Possibility to add additional satellites
- Use 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 fabricated in AISI 316 rated 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 in compliance 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 is 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 wireless transfer.
- It is possibile to work either in manual or automatic mode.
- The battery is recharged by a power cable connected directly to the air sampler.
- The 200 lts/min air flow reduces the operator time and the time sampling.
- This air sampler allows monitoring of 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 the ability to sample BEFORE (at rest), DURING (in operation) and at the END of each processing cycle.

MORE INNOVATIVE AND ESTABLISHED PERFORMANCES

- AISI 316 rated stainless steel (command unit + satellite units)
- Compliant according EN/ISO 14698-1, GMP and GLP
- Stainless steel aspirating head with quick bayonet closure, identification number and stainless steel cover to prevent contamination
- Volume of aspirated air: 100 or 200 l/m
- Selected volumes from 30 to 2.000 litres 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 continuosly 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 samples
- Configuration users and places: 100
- Delayed, remote, start, simultaneous or interval sampling
- Bluetooth connection or use of cable for data transfer
- Automatic next calibration reminder
- Data integrity CFR 21 and GAMP5
- CE mark
- Continuous/trending analysis according to the USP
- Dimension: 25x13x18h cm
- Weight: 3.150 gr
- Built in ISO 9001 premises

MICROBIOLOGICAL MONITORING WITH RABS ISOLATOR

The TRIO.BAS RABS ISOLATOR is an extremely flexible instrument that can be easily adapted to any different type of isolator or RABS.

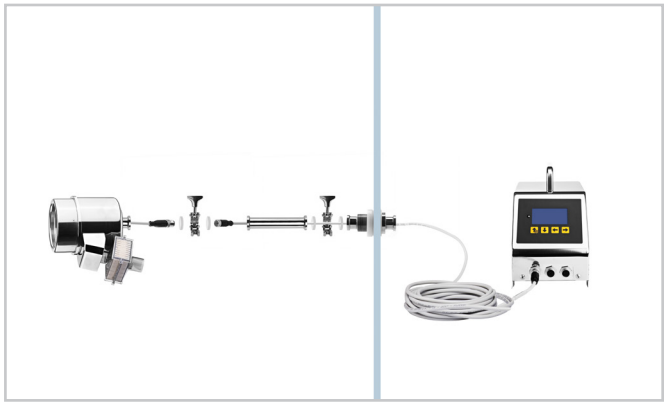
There are different satellite versions:

1. **Standard satellite (code 260 - 261).** These satellites are fabricated in AISI 316 rated stainless steel. It is possible to use 90 mm Petri dishes or 55 mm contact plates with stainless steel aspirating heads or sterile technopolymer "Daily Shift" aspirating heads. All types of aspirating head to be ordered separately.
   The compact satellite occupies little space inside the isolator.
   Size: diameter 12 cm, height 12 cm, weight 1.170 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. This format is typically used in cleanrooms. The filter's longevity depends on the frequency of the samples 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 to replace the filter.
   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 12 cm, height 12 cm, 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 of 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.



TRIO.BAS satellite HEPA filter with cable inserted in S/S AISI316 piping with trioclamps and connected to the isolator rabs control unit

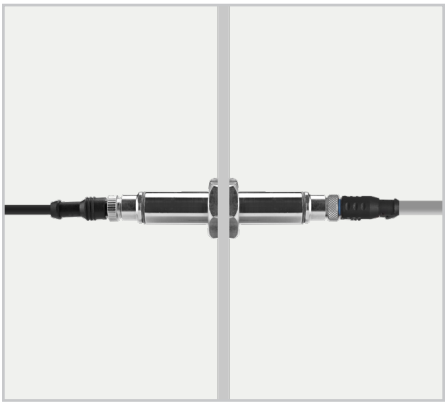
CONNECTIONS BETWEEN THE CONTROL UNIT AND THE SATELLITES

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

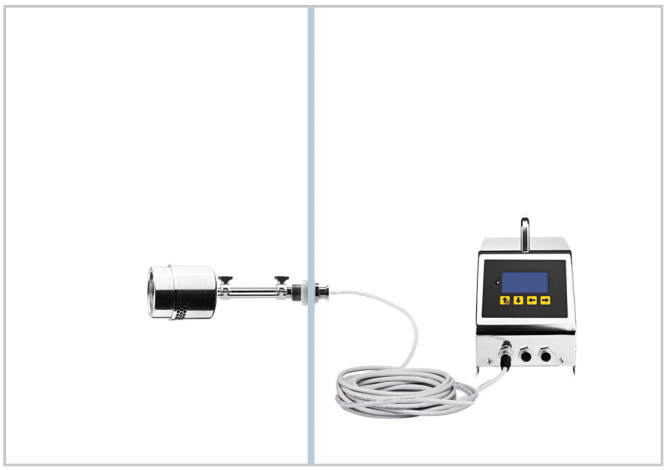
- **Flexible cable (code 265)** with a max extension of 5 mt. This cable is complete with 4-pin male/female connectors. On request, it is possible to supply cables with a length up to about 20 meters. This cable option is available for all satellites.
- **Stainless steel rigid connection (code 266)**. Length of 170 mm. The satellite can remain suspended. Only for standard satellites.
- **Stainless steel wall connection (code 267)**. Guarantees a 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)



TRIO.BAS satellite with cable inserted in S/S AISI316 piping with trioclamps and connected to the isolator rabs control unit

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 cable for data transfer, 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).
(**) second or third satellite to be added to basic sampler.

TRIO.BAS RABS ISOLATOR + 1 SATELLITE

TRIO.BAS RABS ISOLATOR + 2 SATELLITES

TRIO.BAS RABS ISOLATOR + 3 SATELLITES