

المجموعة العلمية المتكاملة

I. S. G. Company



استشارات فنية تنفيذ مشاريع تسليم مفتاح



تصميم وتصنيع البنشات المعملية



توريد الاجهزة المعملية





3

تنفيذ غرفة نظيفة clean room clean area



interscience

















CONTINUOUS AIR MICROBIAL MONITORING

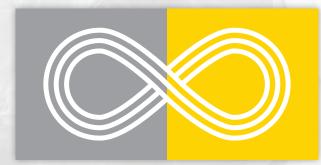








AIRBIO TRIO CM







TRIO.BAS RABS ISOLATOR CM + 1 SATELLITE CM



TRIO.BAS RABS ISOLATOR CM + 3
SATELLITES CM



TRIO.BAS RABS ISOLATOR CM + 2 SATELLITES CM





AIRBIO ONE CM

IDENTIFICATION CODES

Code

AIRBIO ONE for CONTINUOUS MONITORING

853K

AIRBIO ONE CM 25 I/m PETRI with cable PACK (25 litres/min flow rate) (*)

(*) each PACK consists of: 1 air sampler with Bluetooth and battery charger, 1 calibration certificate, 1 s/s aspirating head (code 830) with s/s cover head (code 465), 1 cable for transfer data and 1 robustus carrying case.

AIRBIO DUO CM

IDENTIFICATION CODES

Code

AIRBIO DUO for CONTINUOUS MONITORING

854K

AIRBIO DUO CM 25 I/m PETRI with cable PACK (25 litres/min flow rate) (*)

(*) each PACK consists of: 1 air sampler with Bluetooth and battery charger, 1 calibration certificate, 2 s/s aspirating head (code 830) with s/s cover head (code 465), 1 cable for transfer data and 1 robustus carrying case.





AIRBIO TRIO CM

IDENTIFICATION CODES

Code

AIRBIO TRIO for CONTINUOUS MONITORING

855K

AIRBIO TRIO CM 25 I/m PETRI with cable PACK (25 litres/min flow rate) (*)

(*) each PACK consists of: 1 air sampler with Bluetooth and battery charger, 1 calibration certificate, 3 s/s aspirating head (code 830) with s/s cover head (code 465), 1 cable for transfer data and 1 robustus carrying case.



TRIO.BAS RABS ISOLATOR CM AND SATELLITE CM

IDENTIFICATION CODES

Code RABS ISOLATOR for CONTINUOUS MONITORING

850K TRIO.BAS RABS ISOLATOR CM 25 I/m PETRI with 1 SATELLITE PACK (25 litres/min flow rate) (*)

(*) each PACK consists of: 1 TRIO.BAS RABS ISOLATOR with battery charger, 1 calibration certificate, 1 s/s satellite, 1 s/s aspirating head (code 830) with s/s cover head (code 465), 1 cable connection (5 mt) (code 265), 1 cable for data transfer and 1 robustus medium carrying case.

Code SATELLITE UNIT for CONTINUOUS MONITORING

851K CONTINUOUS SATELLITE UNIT Petri PACK

Code **EACH PACK CONSIST OF:**

- 830 S/S ASPI HEAD PETRI CM
- 465 COVER HEAD s/s to protect ASPI HEAD
- 265 Cable connection between the Satellite and the command unit 1 set of 5 meters









REMOTE SYSTEM



REMOTE FUNNEL

IDENTIFICATION CODES

Code	REMOTE FUNNEL SYSTEM
181	REMOTE FUNNEL SYSTEM in s/s AISI316 with tri clamps connection, funnel and bell - carrying case included



REMOTE HEAD

IDENTIFICATION CODES

Code	REMOTE HEAD SYSTEM
192	REMOTE HEAD SYSTEM Petri 90 plate in s/s AISI316 with tri clamps connection - carrying case included

Code	ACCESSORIES for REMOTE SYSTEM
140	s/s valve for REMOTE SYSTEM with 2 TRI clamps connection
184	silicone tube with 2 TRI clamps connection - 50 cm lenght
185	silicone tube with 2 TRI clamps connection - 100 cm lenght
186	silicone gasket for TRI clamp
187	s/s cap clamps
188	s/s 90° elbow short tube with 2 TRI clamps connection - wheelbase 40 mm
193	s/s tri clamps with silicone gasket
194	s/s tube with 2 TRI clamps connection - 100 mm lenght

Code	ACCESSORIES for REMOTE SYSTEM
194/1	s/s tube with 2 TRI clamps connection - 200 mm lenght
194/2	s/s tube with 2 TRI clamps connection - 500 mm lenght
195	s/s 90° elbow long tube with 2 TRI clamps connection - wheelbase 89 mm
197	s/s hexagonal pipe hook with inserts - 100 mm
189	s/s wall connection with 2 TRI clamps connection (wall < 5mm)
198	s/s wall connection with 2 TRI clamps connection - size 80 mm lenght (wall > 5mm)
199	s/s floor pole - base diameter 250 mm - lenght 1 mt



*



AIRBIO ONE RAPID-VIRUS is an innovative instrument for airborne viable particle sampling. It is specifically designed for total pathogen monitoring of virus, bacteria, molds and yeast.

The instrument has 2 different applications:

- 1) for collecting virus in a liquid sample for subsequent rapid analytical identification (by PCR)
- 2) for traditional impact on agar culture media plate to count colonies (CFU)



Description

The collection of micro-organisms and virus on culture media requires time for incubation before results. Instead, much faster results are obtained applying the liquid collection method.

This method has great advantages when applied in the following fields:

- Industrial segment (pharma, agro-food, beverage, etc.) for a quick reaction in identifying the contamination
- · Military branches for notifying possible biological attacks
- · Hospitals for finding the correct pharmacological product and treatment for patients
- Public institutes (school, restaurant, bar, metro, train, municipality buildings, etc.) for disease/pandemic monitoring

AIRBIO RAPID-VIRUS also allows a quick assessment of the disinfection protocols' efficacy.

The instrument is the result of the European NATO project EUCLID CEPA 13 ("protection of personnel against pathogenic micro-organisms via air sampling and rapid detection and identification").

Performances of virus sampling

Principle: the volume of air is aspirated and mixed in a pre-analytical liquid.

- The collection liquid system is completely sterilizable as produced in stainless steel
- · Collection liquid: water, buffer, nutrient broth
- Quantity of collection liquid: 15 ml
- Battery autonomy: 70.000 litres
- 50 users and 50 places
- Dimension of the instrument: 15x20x33h cm
- · Weight: 1.850 gr
- Battery: power supply 218 VDC 60W
- Operating conditions: T° 0-45°C / RH 10% / 60%

Identification Codes

AIRBIO ONE RAPID-VIRUS

AIRBIO ONE RAPID-VIRUS PACK consisting

2448K	of: AIRBIO ONE air sampler 200 l/m, 1 s/s Petri aspirating head with s/s cover head, 1 s/s collection liquid system for virus, 2 conical bottom centrifuge tube PP (225 ml), battery charger, 1 calibration certificate and 1 robustus carrying case.
	Accessory
324	Conical tube PP - 225 ml (8 x box)
413	Self-sealing sterilization bag for s/s collection liquid system for AIRBIO RAPID-VIRUS (100 x box)
325	Collecting liquid system by PCR for AIRBIO VIRUS
329	VIRUS rack for conical tube PP - size 205x135x102 mm

Performances of active air sampling

Principle: the volume of air is aspirated on a culture media

- Air flow 200 I/m
- Battery autonomy: 70.000 litres
- 50 users and 50 places
- Dimension of the instrument: 15x15x24h cm
- Weight: 1.600 gr
- Battery: power supply 218 VDC 60W
- Operating conditions: T° 0-45°C / RH 10% / 60%





Sampling air volumes	The suggested volume of air is 2.000 liters. The air sampler has an autonomy of 70.000 litres, but it could be more whist connected to the main power.
Sampling place	The air sampler should be positioned on the direction of the air flow (between door and windows, close to the air conditioning system of HVAC). In hospital, the sampler should be placed near to patient's bed, in public spaces where there is the highest concentration of people.
Sampling Protocol	A specific SOP (Standard Operative Procedure) needs to be prepared.
Collection liquid	The most common used liquid is phosphate buffer or saline buffer. The volume should be 15 ml. In case the aspirating time is longer, it should be necessary to add sterile water to PBS to avoid salt concentration.
Sample Storage	If the analytical sample is not processed right away, the sample needs to be stored at +4°C.
Sample transfer	The sample should be transferred at +4°C unless different indications from analytical laboratory.
Sample processing	Some protocols indicate a concentration's step (by tangential flow filtration).





AIRBIO ONE

AIRBIO ONE RAPID-VIRUS

Virus Sampling Protocol

- AIR SAMPLING STRATEGY: place, time, frequency according to validated SOP
- 2 AIR SAMPLER PREPARATION: volume of air and type of liquid according to the analytical laboratory
- 3 AIR SAMPLER PROGRAMMING: air sampler protocol according to user manual and validated SOP
- SAMPLES COLLECTION: after using a sterile conical tube, place a new sterile tube on the collection liquid system for a new test
- 5 SAMPLES: PCR test, qPCR RT, qPCR
- 6 AIR SAMPLER DECONTAMINATION: use 70% isopropyl alcohol
- 7 NEW SAMPLE: the air sampler is ready for a new test



AIRBIO TRIO cable

TRIO.BAS TM



A STATIONARY AND PORTABLE THREE ASPIRATING HEADS AIR SAMPLER WITH BLUETOOTH CAPABILITY AND CABLE FOR CHARGING



- 100 or 200 litres per minute flow rate model
- Easy display screen reading
- Battery charger via cable (110/240 volt)
- Bluetooth capability for data transfer
- Cable for data transfer
- Battery cycle autonomy up 70.000 litres
- Stable on a work surface in a vertical position without the use of any external support
- Suitable for 55 mm Contact plates or 90 mm Petri dishes
- Up to 1.000 memorized data, 100 places identification, 100 operators identification
- More than one different culture media at the same time
- Saved sampling time by doubling the air flow rate from 100 to 200 l/m



DESCRIPTION

- 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 pharmaceutical aseptic filling suites, cleanroom, biotech, IVF clinic, operating theatre, hospital pharmacies, blood banks, clinic, microbiological labs, HVAC building monitoring, environmental labs, healthcare ambient monitoring and health authorities.
- 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 is 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 is transferred via Bluetooth from the air sampler to a PC or laptop via a dedicated software installed.
- The data is transferred via Bluetooth between the air sampler and a smartphone or tablet (Android version) and then to a PC or laptop.
- 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.
- The use of sterile "Daily Shift" aspirating heads reduces the risk of contamination and provides the certification of sterility requested by regulatory inspectors.
- The possibility to use 2 different aspirating heads allows to have 2 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.

PERFORMANCES

- Technopolymer body shockproof with antibacterial performances of surfaces
- 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 6.000 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 continuously by AC powered source 110/240 volt 50/60 hz or by rechargeable battery (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 cable for data transfer
- Automatic next calibration reminder
- Data integrity CFR 21 and GAMP5
- CE mark
- Continuous/trending analysis according to the USP
- Dimension: 27x15x25h cm
- Weight: 2.300 gr
- Built in ISO 9001 premises

IDENTIFICATION CODES

Code	AIRBIO TRIO cable PACK (*)
487K	AIRBIO TRIO 100 Contact with cable (100 litres/min flow rate)
488K	AIRBIO TRIO 100 Petri with cable (100 litres/min flow rate)
489K	AIRBIO TRIO 200 Contact with cable (200 litres/min flow rate)
490K	AIRBIO TRIO 200 Petri with cable (200 litres/min flow rate)

(*) each PACK consists of: 1 air sampler with Bluetooth and battery charger, 1 calibration certificate, 3 s/s ASPI head with s/s cover head, 1 cable for transfer data, 1 robustus carrying case.



TRIO.BAS MINI

Single aspirating head air sampler with Bluetooth and cable for charging





- 100 or 200 litres per minute flow rate model
- Battery charger via cable (110/240 volt)
- Bluetooth for remote control of the air sampler
- Battery cycle autonomy 30.000 litres
- Manual mode only
- AISI 316 rated stainless steel aspirating head with quick bayonet closure and identification number
- Suitable for 55 mm Contact plates or 90 mm Petri dishes



DESCRIPTION

- Main customers for TRIO.BAS MINI are agro-food industries, dairy, catering, HACCP, beverage, cosmetic, sewage treatment plant, outdoor environment, primary and secondary schools: mainly customers who make few numbers of controls.
- Bluetooth capability allows remote control of the air sampler only.
 Data transfer via Bluetooth is not an option with the MINI.
- The sampler is free of any external plugs and it is IP65 certified.
- The battery is recharged by a power cable connected directly to the air sampler.
- The 200 lts/min air flow reduces the operator and sampling times.

PERFORMANCES

- Light weight, ergonomic and balanced design to facilitate handling with or without gloved hands
- Technopolymer shockproof body with antibacterial performances of surfaces
- 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
- Battery cycle autonomy: 30.000 litres

- IP65 certified protection from dust and water
- 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)
- Language: English, French, German, Spanish, Italian
- Operative aspirating cycles: manual
- Memorized data: up to 1.000 samples
- · Delayed, remote, start, simultaneous or interval sampling
- Automatic next calibration reminder
- CE mark
- Dimension: 33x16x15h cm
- · Weight: 1.430 gr
- Built in ISO 9001 premises

IDENTIFICATION CODES

Code	TRIO.BAS MINI PACK (*)
152K	TRIO.BAS MINI 100 Contact PACK (100 litres/min flow rate)
153K	TRIO.BAS MINI 100 Petri PACK (100 litres/min flow rate)
162K	TRIO.BAS MINI 200 Contact PACK (200 litres/min flow rate)
163K	TRIO.BAS MINI 200 Petri PACK (200 litres/min flow rate)

(*) each PACK consists of: 1 TRIO.BAS MINI with a battery charger, 1 calibration certificate, 1 s/s ASPI head with s/s cover head, 1 light carrying case.



Stainless steel aspirating head with quick bayonet closure



Easy manipulation



Vertical hook to fix the sampler in vertical position on a cart with wheels

TRIO.BAS DUO induction

ORUM INTERNATIONAL © ALL RIGHTS RESERVED

*

Two aspirating heads air sampler with Bluetooth and battery induction charger



- 100 or 200 litres per minute flow rate model
- The base station induction charger could be replaced by "SELFTEST SYSTEM" to verify the correct flow rate at regular intervals
- Stable on a work surface in a vertical position without the use of any external support
- AISI 316 rated stainless steel aspirating head with quick bayonet closure and identification number
- Suitable for 55 mm Contact plates or 90 mm Petri dishes
- Bluetooth capability for data transfer
- Up to 1.000 memorized data, 100 places identification, 100 operators identification
- Use more than one different culture media at the same time
- Saved sampling time by doubling the aspirated volume of air



DESCRIPTION

- 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 pharmaceutical aseptic filling suites, cleanroom, biotech, IVF clinic, operating theatre, hospital pharmacies, blood banks, clinic, microbiological labs, HVAC building monitoring, environmental labs, healthcare ambient monitoring and health authorities.
- 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 is
 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.
- It is possibile to work either in manual or automatic mode.
- The sampler is IP65 certified.
- The battery is recharged by a base station induction charger without any cable connection between the air sampler and the charger
- The 200 lts/min air flow reduces the operator time and the time sampling.
- The use of sterile "Daily Shift" aspirating heads reduces the risk of contamination.
- The possibility to use 2 different aspirating heads allows to have 2 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.

PERFORMANCES

- Light weight, ergonomic and balanced design to facilitate handling with or without gloved hands
- Technopolymer shockproof body with antibacterial performances of surfaces
- 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
- Battery cycle autonomy: 60.000/70.000 litres
- IP65 protection certified from dust and water
- 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 for data transfer
- Automatic next calibration reminder
- Programmable for compressed gases/air
- Data integrity CFR 21 and GAMP5
- CE mark
- · Continuous/trending analysis according to the USP
- Dimension: 26x28x15h cm
- Weight: 1.630 gr
- Built in ISO 9001 premises

IDENTIFICATION CODES

Code	TRIO.BAS DUO induction PACK (*)
220K	TRIO.BAS DUO 100 Contact PACK (100 litres/min flow rate)
221K	TRIO.BAS DUO 100 Petri PACK (100 litres/min flow rate)
225K	TRIO.BAS DUO 200 Contact PACK (200 litres/min flow rate)
226K	TRIO.BAS DUO 200 Petri PACK (200 litres/min flow rate)

(*) each PACK consists of: 1 air sampler with Bluetooth and 1 calibration certificate, 1 base station induction charger, 2 s/s ASPI head with s/s cover head, 1 robustus carrying case.



TRIO.BAS DUO with induction battery charger



Stainless steel aspirating head with quick bayonet closure



SELFTEST SYSTEM