

ACTIVE MICROBIAL AIR SAMPLING



TRIO.BAS[™]
BIOLOGICAL AIR SAMPLER

**The most complete line
of active microbial air
sampling instruments
available**

 **HARDY**
DIAGNOSTICS
A Culture of Service[™]





CONTENTS

1	Regulations	13	Remote Aspirating Head System
3	Principles	14	TRI CLAMP Satellite
3	MINI	15	TRIO.GAS
4	MONO Induction	16	FLO.GAS and VERI.GAS
4	DUO Induction	17	Calibration Control Equipment
	MONO/DUO	18	DAILY SHIFT HEADS
5	Data Transfer Cable Models	19	CFU Photo Camera
6	AIRBIO ONE and DUO	25	Data Transfer Options
7	AIRBIO ONE RAPID-VIRUS	20	Data Transfer Software
8	Cleanrooms Monitoring Question	22	Accessories
	RABS ISOLATOR and	24	TRIO.SETTLE
10	MULTIFLEX Systems	25	Prepared Culture Media
12	Remote Aspirating Tube System		

Applicable Industries:

- Pharmaceutical/Biotechnology
- Compounding Pharmacy
- Medical Device Manufacturer
- Sterile Product Packager
- Hospital/Surgical
- Food/Beverage/Dairy
- Cosmetics/Personal Care
- Cannabis
- Tissue Lab
- Aerospace



Regulations

FDA Guidance:

According to FDA Guidance for Industry *Sterile Drug Products Produced by Aseptic Processing- Current Good Manufacturing Practice* on Active Microbial Air Monitoring: "...Assessing microbial quality of air should involve the use of active devices... We recommend that such devices be used during each production shift to evaluate aseptic processing areas at carefully chosen locations. Manufacturers should be aware of a device's air monitoring capabilities, and the air sampler should be evaluated for its suitability for use in an aseptic environment based on collection efficiency, cleanability, ability to be sterilized, and disruption of unidirectional airflow."

USP Regulation <797>:

Issued by the non-profit US Pharmacopoeia (USP) and endorsed by the Joint Commission on Accreditation of Healthcare Organizations (JCAHO), USP Regulation <797> is the first enforceable standard for sterile compounding. Originally enacted on January 1, 2004, with the latest version effective November 1st, 2023.

USP <797> is a broad regulation covering a variety of pharmacy policies and procedures designed to reduce the number of patient infections due to contaminated pharmaceutical preparations. USP <797> contains specific requirements for ongoing air and surface evaluation to ensure product sterility and safety for compounded sterile preparations (CSPs).

Recommended Action Levels for microbial contamination:

Viable Air Sampling

Classification	CFU/1000 liters of air
ISO Class 5	>1
ISO Class 7	>10
ISO Class 8 or worse	>100

If air or surface microbial contamination action levels are reached, taking immediate action will help to quickly eradicate threats and mitigate risks to patient health.



Regulations

Suggested frequency and microbial recovery rates for aseptic processing areas

The USP <1116> - The United States Pharmacopeial Document

Table 1: Suggested Frequency of Sampling for Aseptic Processing Areas

Clean Room/RABS	
Sampling Area/Location	Frequency of Sampling
Clean Room/RABS	
Critical zone (ISO 5 or better)	
Active air sampling	Each operational shift
Surface monitoring	At the end of the operation
Aseptic area adjacent critical zone	
All sampling	Each operating shift
Other nonadjacent aseptic areas	
All sampling	Once per day
Isolators	
Critical zone (ISO 5 or better)	
Active Air Sampling:	Once a day
Surface Monitoring:	At the end of the campaign
Non-aseptic areas surrounding the isolator	
All sampling	Once per month

The USP <1116> - The United States Pharmacopeial Document

Table 2: Suggested Initial Contamination Recovery Rates in Aseptic Environments

Room Classification	Active Air Sample (%)	Settle Plate (9cm) 4H Exposure (%)	Contact Plate or Swab (%)	Glove or Garment (%)
Isolator/closed RABS (ISO 5 or better)	<0.1	<0.1	<0.1	<0.1
ISO 5	<1	<1	<1	<1
ISO 6	<3	<3	<3	<3
ISO 7	<5	<5	<5	<5
ISO 8	<10	<10	<10	<10

Principles

Principle of microbial air sampling by impact method on agar plate

Air, containing microbe-carrying particles, is aspirated and accelerated through an intake and directly towards the surface of a plate. As the air turns away from the agar surface, the microbe-carrying particles that cannot follow the flow are impacted. The plate containing agar is then incubated for the appropriate time and at the proper temperature. The resulting Colony Forming Units (CFU) are counted to evaluate the number of microbe-containing particles collected from a specific volume of air.

How the microbe-carrying particles impact on an agar surface:

The aspirated air passes through an intake of the sampler head at a velocity of “U” and, as it approaches the agar surface, it turns. The arc of the turning circle has a radius of “r” which is assumed to be the same as the radius of the intake nozzle. The velocity around the curve is assumed to be “U”.

The microbe-carrying particle travels along the streamline and experiences a centrifugal force that causes it to move toward the agar surface of the plate.

MINI

Each kit includes:

- Instrument
- Battery charger and cable
- Aspirating head
- Cover head
- LIGHT carrying case
- Calibration certificate

Features:

- Aspirating head with quick bayonet closure system for easy manipulation
- Light weight: Significantly lighter than industry counterparts
- Rechargeable via external port using standard wall charger
- Note: Sampling data must be manually recorded with the MINI



Cat. no.

MINI Kit, 100 liters/min., contact plate	BAS152K
MINI Kit, 100 liters/min., Petri plate	BAS153K
MINI Kit, 200 liters/min., contact plate	BAS162K
MINI Kit, 200 liters/min., Petri plate	BAS162K

MONO Induction

Each kit includes:

- Instrument
- Induction battery charger and cable
- Aspirating head
- Cover head
- ROBUSTUS carrying case
- Calibration certificate
- IQ, OQ, PQ fillable document

Features:

- No plugs or external connections
- Delayed interval sampling and remote start capabilities
- Data transfer capability via Bluetooth
(Separate purchase required. **See page 20**)
- MONO certified to ATEX standards also available



Cat. no.

MONO Kit, 100 liters/min., contact plate	BAS200K
MONO Kit, 100 liters/min., Petri plate	BAS201K
MONO Kit, 200 liters/min., contact plate	BAS205K
MONO Kit, 200 liters/min., Petri plate	BAS206K

DUO Induction

Achieve faster sampling times and better statistical results with the DUO!

Each kit includes:

- Instrument
- Induction battery charger and cable
- Aspirating heads
- Cover heads
- ROBUSTUS carrying case
- Calibration certificate
- IQ, OQ, PQ fillable document

Features:

- No plugs or external connections
- Two aspirating heads for sampling on separate plates to determine bacterial and yeast/mold counts
- Programmable for simultaneous or interval aspirating times
- Data transfer capability via Bluetooth. (Separate purchase required. **See page 20**)
- Ask about DUO certified to ATEX standards



Cat. no.

DUO Kit, 100 liters/min., contact plate	BAS220K
DUO Kit, 100 liters/min., Petri plate	BAS221K
DUO Kit, 200 liters/min., contact plate	BAS225K
DUO Kit, 200 liters/min., Petri plate	BAS226K

MONO & DUO Cable with Sampling Data Transfer Cable

A solution to capturing data for facilities concerned with data transmissions, or that do not permit wireless transfer of information. Data from the instrument memory can be transferred to a PC via the included transfer cable and dedicated software (see Cat. no. BAS295 or BAS296, required for data download to another device).

TRIO.BAS MONO with Sampling Data Transfer Cable

Each kit includes:

- Instrument
- Stainless steel aspirating head
- Protective cover head
- Charging and Transfer cables
- ROBUSTUS carrying case
- IQ, OQ, PQ fillable document



Cat. no.

MONO Kit, 100 liters/min., contact plate	BAS211K
MONO Kit, 100 liters/min., Petri plate	BAS212K
MONO Kit, 200 liters/min., contact plate	BAS213K
MONO Kit, 200 liters/min., Petri plate	BAS214K

TRIO.BAS DUO with Sampling Data Transfer Cable

Each kit includes:

- Air sampler
- Two stainless steel aspirating heads
- Two protective cover heads
- Charging and Transfer cables
- ROBUSTUS carrying case
- IQ, OQ, PQ fillable document



Cat. no.

DUO Kit, 100 liters/min., contact plate	BAS222K
DUO Kit, 100 liters/min., Petri plate	BAS223K
DUO Kit, 200 liters/min., contact plate	BAS231K
DUO Kit, 200 liters/min., Petri plate	BAS232K

AIRBIO ONE and DUO

The vertical design of AIRBIO instruments is ideal for work surface stability, and monitoring laminar air flow systems.



The AIRBIO DUO holds two culture media plates for sampling with separate media at one time, or to program sampling before (at rest), during (in operation), and at the end of each processing cycle.

Each kit includes:

- Air sampler
- Bluetooth capability
- Stainless steel aspirating head(s)
- Stainless steel protective aspirating head cover(s)
- Charging cable
- Data transfer cable
- Robustus carrying case
- Factory calibration certificate
- IQ OQ PQ fillable documents

Features:

- Compliant according to EN/ISO 14698-1, GMP, GLP, USP, and data integrity CFR21 and GAMP-5
- Volume of aspirated air is either 100 liters per minute or 200 liters per minute
- Sample air intake volume programs from 30-2000 liters with 17 preset programs
- Use either standard culture media plates: Petri plates or contact plates
- IP65 rated protection from dust and water

Cat. no.

AIRBIO MONO 100 liters/min contact plate	BAS445K
AIRBIO MONO 100 liters/min Petri plate	BAS446K
AIRBIO MONO 200 liters/min contact plate	BAS447K
AIRBIO MONO 200 liters/min Petri plate	BAS448K
AIRBIO MONO 100 liters/min contact plate	BAS479K
AIRBIO MONO 100 liters/min Petri plate	BAS480K
AIRBIO MONO 200 liters/min contact plate	BAS481K
AIRBIO MONO 200 liters/min Petri plate	BAS482K

AIRBIO ONE RAPID-VIRUS

For airborne viable particle sampling. It is specifically designed for total pathogen surveillance of bacteria, fungi, yeast and viruses.

Options:

- Use to collect samples in liquid for subsequent rapid analytical identification steps by PCR, etc.
- Use with the traditional impact on agar culture media plate method to count the colonies (CFU).

Features:

- Collection unit is completely sterilizable
- The tri-clamp stainless steel tube system facilitates cleaning and sterilization
- Liquid sampling permits rapid methods (e.g.:PCR), while traditional agar sampling requires
- incubation of media plates to obtain sample results.



Cat. no.

AIRBIO ONE RAPID-VIRUS instrument

BAS2448K

Workflow:



1. Remove the protective cover head from AIRBIO



2. Connect the sterile virus system to the aspirating chamber of AIRBIO



3. Disconnect the protective bottle



4. Connect the bottle with the collection liquid



5. The air sampler is ready



6. Start sampling



7. The sample is transferred to the laboratory



8. The sample is analysed via PCR System

Is a HEPA filter-equipped viable air sampler necessary for monitoring cleanrooms?

Active microbial air samplers for viable contamination monitoring in cleanroom isolators and RABS (Restricted Access Barrier Systems) should be designed to avoid contamination risk from the instrument.

The electrical motor of TRIO.BAS™ instruments does not produce particles if the manufacturer recommended cleaning procedures are followed during sampling preparation. Furthermore, expelled air flows out from the aspirating chamber without any contact with the internal parts of the instrument.

When permanently located in cleanroom isolators and RABS, TRIO.BAS™ instruments without HEPA filters are used without concern of contamination from particles.



Cat. no.
TRIO.BAS MONO Filter Kit,
100 liters/min., contact plate BAS171K
TRIO.BAS MONO Filter Kit,
100 liters/min., Petri plate BAS170K

Cat. no.
AIRBIO ONE Filter Kit,
100 liters/min., contact plate BAS450K
AIRBIO ONE Filter Kit,
100 liters/min., Petri plate BAS449K

If the viable air monitoring plan involves transferring the air sampling instrument from different ISO classification environments with varied levels of microbial contamination (ISO Class 7 to ISO Class 5), a risk of cross-contamination is possible.

Under such conditions, a HEPA filter equipped TRIO.BAS™ instrument, or a HEPA filter satellite option for use with RABS/ISOLATOR instrument formats, is suggested to avoid the transfer of particles from the inside of the aspirating chamber.

TRIO.BAS™ HEPA filter formats include a replaceable HEPA filter fixed to the air outlet of the instrument or satellite to stop the potential transfer of particles.

Satellite for use with BAS268K, BAS269K, BAS270K, BAS271K



A smoke/exhaust study confirms the expelled air is not re-aspirated by the same air sampler.



Stainless steel satellite with HEPA FILTER, contact plate **Cat. no.** BAS262K

Stainless steel satellite with HEPA FILTER, Petri plate **Cat. no.** BAS263K

RABS ISOLATOR and MULTIFLEX Systems

Specifically designed to meet Pharmaceutical and Biopharmaceutical Cleanroom Regulatory Requirements and Standards



**Data transfer requires additional purchase of BAS296 software*

RABS ISOLATOR

External Command Unit and One Satellite with the ability to add up to two additional satellite kits

Each kit includes:

- Instrument
- Satellite aspirating head
- Stainless steel head cover
- Five meter long satellite attachment cable
- Charging and Data transfer* cable
- Robustus carrying case
- Calibration certificate
- IQ OQ PQ fillable guideline documents
- Bluetooth data transfer capability
- Monitor separate cleanrooms with a single external command unit and satellites attached to 5 meter long cables
- Satellite designs allow sampling inside RABS or Isolators
- Optional 20 meter long satellite cables available (BAS272)
- Sample up to 70,000 liters on a single battery charge

Features:

- Compliant according to EN/ISO 14698-1, GMP and GLP
- Built in ISO 9001 Premises
- Data Integrity per CFR 21 and GAMP5
- IQ OQ PQ Guidance Documents Included
- Fabricated in AISI 316 Stainless Steel
- Multiple satellites allow use of separate media at the same time to determine bacterial and fungal counts

Cat. no.

RABS ISOLATOR 1 Satellite Pack, 100 liters/min., contact plate	BAS268K
RABS ISOLATOR 1 Satellite Pack, 100 liters/min., Petri plate	BAS269K
RABS ISOLATOR 1 Satellite Pack, 200 liters/min., contact plate	BAS270K
RABS ISOLATOR 1 Satellite Pack, 200 liters/min., Petri plate	BAS271K

Standard Satellite Kits with Cables

Each kit includes:

- Satellite air sampling chamber
- Stainless steel aspirating head
- Stainless steel head cover
- Five meter long satellite attachment cable
- LIGHT carrying case

Contact	BAS260K
Petri	BAS261K



HEPA-Equipped Satellites

- Add one to three satellites
- Stainless steel HEPA satellite
- Stainless steel aspirating head
- Stainless steel head cover
- Five meter long satellite attachment cable
- One box of HEPA filters

Contact	BAS262K
Petri	BAS263K

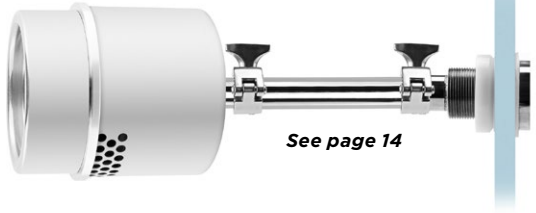


Satellites with Tri-Clamps

- Satellite and Tri-Clamp
- Aspirating heads and covers sold separately (BAS330/331 and BAS465)

Contact BAS320K
Petri BAS321K

Cannot be used concurrently with standard, or other, satellite configurations. Not for use with MULTIFLEX.



See page 14



**Data transfer requires additional purchase of BAS296 software*

MULTIFLEX 1

Command Unit + Built-in Aspirating Head with the ability to add up to two additional standard satellite kits

Each kit includes:

- Instrument
- Robust carrying case
- Stainless steel head cover
- Calibration certificate
- Charging and Data transfer* cable
- IQ OQ PQ fillable guideline documents

	Cat. no.
MULTIFLEX 1, 100 liters/min., contact plate	BAS483K
MULTIFLEX 1, 100 liters/min., Petri plate	BAS484K
MULTIFLEX 1, 200 liters/min., contact plate	BAS485K
MULTIFLEX 1, 200 liters/min., Petri plate	BAS486K

MULTIFLEX 1+2

Command Unit + Built-in Aspirating Head and Two Independent Satellites



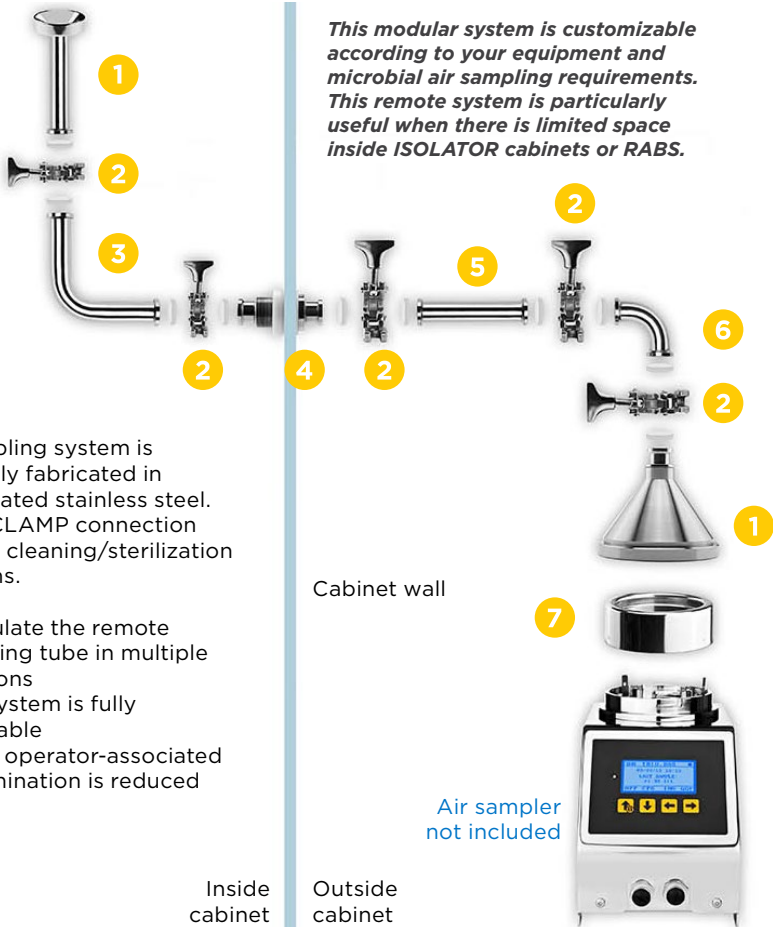
**Data transfer requires additional purchase of BAS296 software*

Each kit includes:

- Instrument
- Three stainless steel aspirating heads with stainless steel head covers
- Two 5 meter long satellite attachment cables
- Charging and Data transfer* cable
- Calibration certificate
- IQ OQ PQ fillable guideline documents

	Cat. no.
MULTIFLEX 1+2, 100 liters/min., contact plate	BAS474K
MULTIFLEX 1+2, 100 liters/min., Petri plate	BAS475K
MULTIFLEX 1+2, 200 liters/min., contact plate	BAS476K
MULTIFLEX 1+2, 200 liters/min., Petri plate	BAS477K

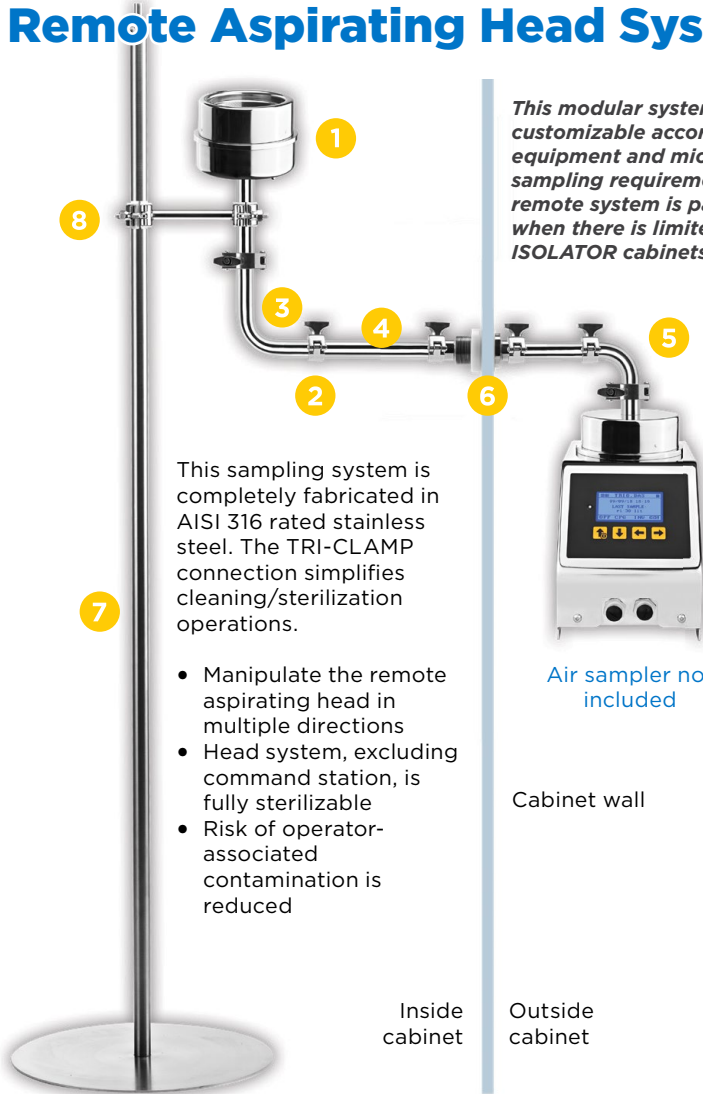
Remote Aspirating Tube System



Cat. no.

1	REMOTE TUBE SYSTEM, stainless steel aspirating tube and end clamp with stainless steel aspirating bell and end clamp to connect the system to Air Sampler	BAS181
2	Stainless steel tri-clamp with silicone gasket	BAS193
3	Stainless steel 90° tube with 2 clamp ends, size wheelbase 88, 90mm, radius 25, 40mm	BAS195
4	Stainless steel wall connection with 2 clamp ends	BAS198
5	Stainless steel tube with 2 clamp ends, 10cm	BAS194
6	Stainless steel 90° tube with 2 clamp ends, size of wheelbase 40mm	BAS188
7	Stainless Steel Aspirating Head, Petri plate, shown as part of the MULTIFLEX 1 microbial air sampler	BAS331

Remote Aspirating Head System



This modular system is customizable according to your equipment and microbial air sampling requirements. This remote system is particularly useful when there is limited space inside ISOLATOR cabinets or RABS.

This sampling system is completely fabricated in AISI 316 rated stainless steel. The TRI-CLAMP connection simplifies cleaning/sterilization operations.

- Manipulate the remote aspirating head in multiple directions
- Head system, excluding command station, is fully sterilizable
- Risk of operator-associated contamination is reduced



Air sampler not included

Cabinet wall

Inside cabinet

Outside cabinet

Cat. no.

1	Stainless Steel Contact or Petri format Aspirating Head	BAS191/192
2	Stainless Steel tri-clamp with silicone gasket	BAS193
3	Stainless Steel elbow 90° tube with 2 clamp ends - size wheelbase 88,90 mm, radius 25,40mm	BAS195
4	Stainless Steel tube with 2 clamp ends - 10cm length	BAS194
5	Stainless Steel elbow short tube 90° with 2 clamp ends - size wheelbase 40mm	BAS188
6	Stainless Steel wall connection with 2 clamp ends	BAS198
7	Stainless Steel floor pole - diameter 25 cm, 1 mt height	BAS199
8	Stainless Steel hexagonal pipe hook with gaskets and adapter	BAS197

TRI CLAMP Satellite

A customizable air sampling satellite option for use with RABS ISOLATOR or MULTIFLEX instruments. Ideal for use in cleanroom barrier systems where space is limited.

- For integration with the RABS Isolator or MULTIFLEX instrument
- Compact design for use in RABS or isolators
- Simple electric cable
- Fabricated in AISI 316 rated stainless steel
- Easily mounted horizontally or vertically
- Tri-clamp coupling system for easy attachment and disassembly during maintenance and calibration
- Electric connection cable to the control unit remains protected inside the stainless steel tube
- Use either Petri or contact plates. Adapts to ready-to-use technopolymer Daily Shift Heads



BAS320K
or BAS321K

Cable with
connector



Stainless steel
tri-clamp

Silicone gasket



Cat. no.

Stainless steel tri-clamp aspirating head satellite for Contact plate, with stainless steel head cover and cable connector	BAS320K
Stainless steel tri-clamp aspirating head satellite for Petri plate, with stainless steel head cover and cable connector	BAS321K
Stainless steel tri-clamp with silicon gasket	BAS193
Stainless steel tube with 2 clamp ends, 10cm length	BAS194
Stainless steel wall connection with retaining nut, for walls max of 5mm thick	BAS198
Stainless steel wall connection with retaining nut, for walls over 5mm thick	BAS199

TRIO.GAS



Designed to test the presence of microorganisms in compressed air or gas lines.

- Calibrated regulator guarantees 100 liters per minute flow rate
- Autoclavable with no disassembly required
- Automated to end sample after programmed volume is reached*
- Signal lets operator know sample is complete*
- Sampling data is retrievable for download via proprietary printer or dedicated software (MONO) or to record manually (MINI).
- No glass valves or meters to crack or break



*When used with MONO or MINI instrument

Each kit includes:

- Stainless steel electro-valve
- Gas connection
- Stainless steel fixing system for air sampler
- MINI or MONO unit
- Induction battery charger and cable
- Aspirating head
- Head cover
- Two IQ, OQ, PQ fillable documents
- LIGHT carrying case

Cat. no.

TRIO.GAS System + MONO air sampler, 100 liters/min., contact plate	BAS650K
TRIO.GAS System + MONO air sampler, 100 liters/min., Petri plate	BAS651K
TRIO.GAS System + MINI air sampler, 100 liters/min., contact plate	BAS654K
TRIO.GAS System + MINI air sampler, 100 liters/min., Petri plate	BAS655K

TRIO.GAS System Aspirating Chamber Kit

Each kit includes:

- Stainless steel electro-valve
- Gas connection
- Stainless steel fixing system for air sampler
- Aspirating head
- Cover head
- Carrying case
- IQ, OQ, PQ fillable documents
- MONO or MINI NOT included

Important Note:

If **manually** timed samples and hand recorded sampling data is acceptable, the MINI or MONO instrument is not necessary. Purchase the GAS system BAS652K or BAS653K, which includes aspirating gas chambers. Choose kit based on preferred plate size.

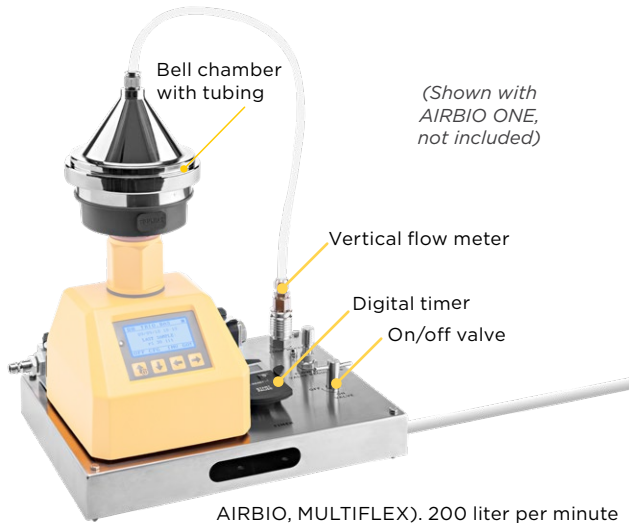


Cat. no.

TRIO.GAS System Aspirating chamber kit, contact plate	BAS652K
TRIO.GAS System Aspirating chamber kit, Petri plate	BAS653K

FLO.GAS

Test for the presence of microorganisms in compressed air and various gases supplied from tanks and pipes under pressure. The flow rate regulator valve must be adjusted prior to sampling.



(Shown with AIRBIO ONE, not included)

- Suitable for testing compressed air, nitrogen, CO₂ and Argon (Use a separate flow meter, BAS596, for CO₂ and/or Argon testing)
- Autoclavable
- Compatible with ASPI GAS CHAMBER (included), or 100 liter per minute air intake rate air samplers (TRIO.BAS,

- AIRBIO, MULTIFLEX). 200 liter per minute samples require a separate air flow meter, Cat. no. BAS595
- Annual calibration recommended

FLO.GAS System, with flow meter, ASPIGAS chamber, Petri plate aspirating head and digital timer

Cat. no.

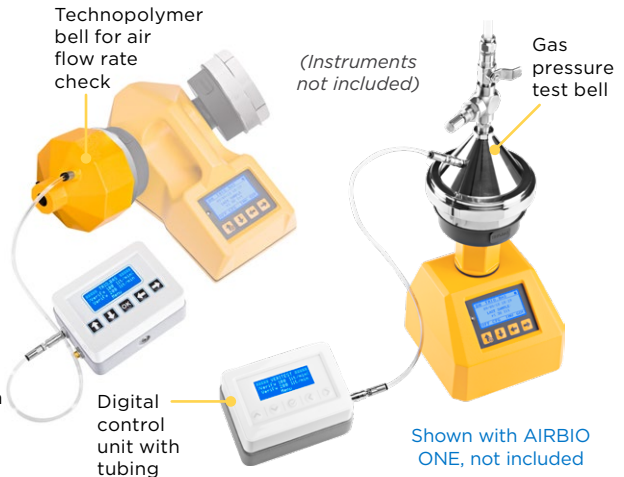
BAS597

FLO.GAS System, with flow meter, ASPIGAS chamber, contact plate aspirating head and digital timer

BAS598

VERI.GAS

Two performances in one instrument: Test for the presence of microorganisms in compressed air/gas and verify the calibrated air flow rate is within specification. The flow rate regulator valve must be adjusted prior to sampling.



(Instruments not included)

Shown with AIRBIO ONE, not included

- Suitable for testing compressed air and nitrogen
- Autoclavable
- Compatible with 100 liter per minute air sampler instruments (TRIO.BAS, AIRBIO, MULTIFLEX)
- For gas testing, use the AISI rated stainless steel bell chamber, valve, and regulator

- For calibration verification, use the technopolymer bell chamber
- Annual calibration recommended

VERI.GAS, for compressed gas test and air flow rate check - with digital control unit, s/s bell chamber for gas testing, technopolymer bell chamber for calibration specification check, connection tube and robust carrying case

Cat. no.

BAS599

Calibration Control Equipment

Proper calibration of air sampling devices is a requirement per cGMP and the USP. Hardy Diagnostics' ISO 17025 certified lab is the factory trained and sole North American calibration service center for TRIO.BAS air sampling instruments. For detailed information, please see the **TRIO.BAS Instrument Services** tab located under **Product Support** on our website: HardyDiagnostics.com/air-sampler-calibration/

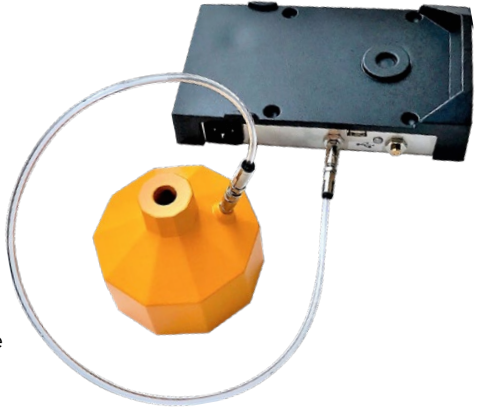
SELF TEST

A manual verification instrument to check the precision of air flow rate. **For control purposes only**; not to take the place of annual, official calibrations. The base station induction battery charger with user **SelfTest** is equipped with a system that allows, regardless of auto-calibration already present in the instrument, the ability to check the state of precision of the air flow. **Only compatible with induction battery charging system instrument formats.**

Calibration System includes:

- Calibration bell
- Connector cable and charger with outlet plug

For 100 liter/min. flow instrument	BAS351
For 200 liter/min. flow instrument	BAS352



VERITEST

A manual verification instrument to check the precision of air flow rate. **For control purposes only**; not to take the place of annual, official calibrations. Suitable for all samplers and satellites. Each

BAS353



DAILY SHIFT HEADS

Individually packaged, sterile by irradiation, and includes a certificate of sterility assurance.

For use on the MINI, MONO, DUO, TRIO and MULTISTATION units. Technopolymer aspirating heads are ready for immediate cleanroom use.

Benefits of Daily Shift Heads:

- A daily certificate of sterilization assurance is requested by regulatory authorities as part of the usual auditing process. Use of DAILY SHIFT aspirating heads eliminates the cost of sterilization after each sample cycle and the consequent task of preparing the certificate of sterility
- DAILY SHIFT heads offer convenience and time savings during periods of unusually heavy workloads
- DAILY SHIFT heads offer peace of mind in case of autoclave breakage or unavailability
- DAILY SHIFT heads can be used on the same day, on the same shift, inside the same cleanroom
- Semi-transparent to confirm agar plate has been properly inserted
- Six year shelf life from date of sterilization



Cat. no.

DAILY SHIFT HEAD, contact plate, 27/bx

BAS340

DAILY SHIFT HEAD, Petri plate, 27/bx

BAS341

Data Transfer Options

For TRIO.BAS instruments with Bluetooth or cable Data Transfer Capability, choose the preferred data download method. A separate purchase is required.



Cat. no.

Tablet Device for data transfer. Requires software BAS296

BAS301

Bluetooth Printer, 11 x 8 x 5

BAS520

Paper rolls (57mm, 10/bx)

BAS421

Bluetooth Key. Requires software BAS296

BAS420

CFU Photo Camera

Obtain culture media plate photos immediately before and after the manual CFU count with the CFU Photo Camera. The CFU Photo Camera integrates with BAS296 software to capture unalterable records, per 21 CFR part 11, of air sampling media plate count results, with the ability to export data to a pdf file or printed paper copy.



- Light System: LED technology
- Camera resolution: full HD 1080p
- Construction: technopolymer antibacterial treatment
- Easy to connect to the PC
- Works with BAS296 SOFTWARE only

Each

BAS337



Before counting



After counting

ALCOA Compliant Records of Passive, Active, Compressed Air, & Surface Samples (P.A.C.A.S.) are possible with BAS296 Software

BAS Software for managing active and passive air, compressed gas and surface sampling cycles

Final report including plate pictures (air, compressed gas and surface) before and after colony count



Compressed gas sampling

Surface sampling

Accessories

Technopolymer Standup Holder for MINI

Each BAS370

for MONO, DUO and TRIO

Each BAS376

for AIRBIO DUO

Each BAS377



Support stand for MULTIFLEX

A stainless steel support stand for stability and safety when positioning MULTIFLEX instruments to best capture laminar flow.

Each BAS379



Stainless Steel Vertical Hook and Knob

For table, cart, or tripod. Adaptable to MINI, MONO, DUO, and TRIO. 12x15x25 cm.

Each BAS521

Stainless Steel Wall/ Table Holder

For wall mount or table.

Each BAS530



Soft Carrying Case

Soft carrying case with tote handles for transporting the TRIO.BAS™ MINI or MONO.

Each BAS390



(Instrument not included)

Stainless Steel AISI 316 Tripod

150cm to 200cm. Ideal for cleanroom use. Device not included.

Each

BAS523

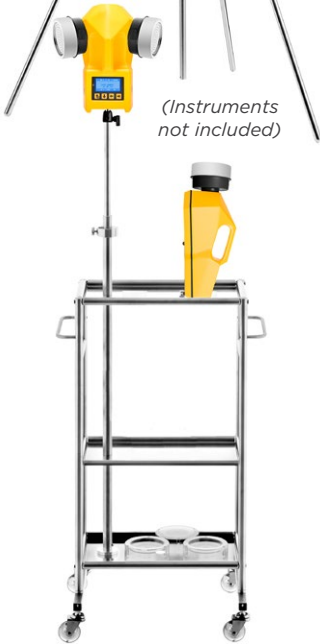


Maxi Floor Tripod

The sturdy MAXI Tripod goes to great lengths to facilitate sampling at heights up to 366cm (12 ft).

Each

BAS387



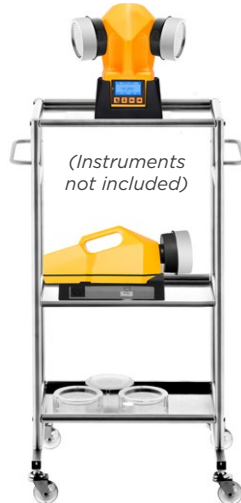
(Instruments not included)

Center Ball Head

An optional head for MAXI Tripod the to rotate the air sampler in different directions. Not recommended when extending the MAXI Tripod to its maximum height.

Each

BAS388



(Instruments not included)

Maxi Multi Holder Cart

Stainless steel AISI 316 cart on wheels with fixed vertical hook holder and adjustable vertical extension post. Ideal inside cleanroom.

- Dimensions: 25x35x70cm
- Extension post adjustable height: 100cm to 210cm

Each

BAS372

Mini Multi Holder Cart

Stainless steel AISI 316 cart on wheels equipped with three shelves. Ideal inside cleanroom.

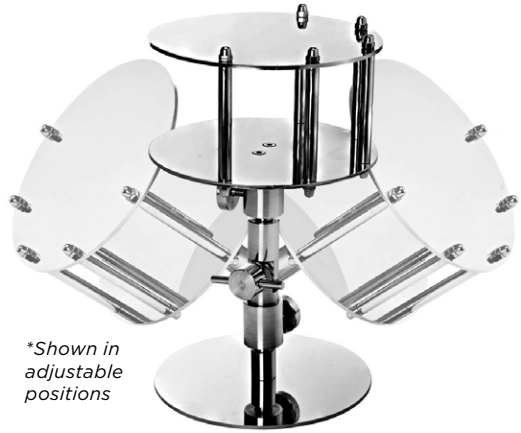
- Dimensions: 25x35x70cm

Each

BAS371

TRIO.SETTLE

Standardize your passive air monitoring protocols with TRIO.SETTLE. Fully autoclavable AISI 316 rated stainless steel support for Settling Plates.



**Shown in adjustable positions*

The TRIO.SETTLE ideally standardizes the position of the culture plate reducing the risk of contamination during sampling.

Position culture media (settling plates) for best articulation to provide a quantitative analysis of airborne microorganisms deposited over a set period of exposure.

TRIO.SETTLE features:

- AISI316 stainless steel fabrication
- Upper surface disc to accommodate an open culture plate during sampling
- Lower surface disc to accommodate the lid of the culture plate
- Adjustable to obtain different inclinations to the agar surface related to the direction of unidirectional airflow, avoiding laminar flow turbulence.
- Floor base model includes floor base and a 1 meter tall stainless steel tripod

Cat. no.

TRIO.SETTLE table plate stand

BAS367

TRIO.SETTLE floor plate stand

BAS368



TRIO.BAS IN-REST Plate Holder

To facilitate operations and reduce contamination risks during sampling activities. Useful as a temporary support for culture media plates and/or lids, as well as TRIO.BAS instrument sampling heads.

Each

BAS180

Cleanroom Bag

Sterile bags ideal for safely containing and transporting Petri dishes, Contact plates, swabs, or other objects, outside of the cleanroom.

5/pk

BAS381BX

750 Bags/Case

BAS381



Prepared Culture Media



Irradiated, Triple-Bagged, Mono Plates

For air sampling and settling plates

Tryptic Soy Agar (TSA) with Lecithin and Tween® 80, SterEM™, USP

For use as a general growth medium for establishing microbiological trends, alerts and action levels in biologically controlled environments.

15x100mm plate, 26ml fill, 10/pk

W365

SabDex (Sabouraud Dextrose) Agar, SterEM™, USP

For the cultivation of fungi. Irradiated, 15x100mm plate, triple bagged, 10/pk

W370

Irradiated, Triple-Bagged, Contact Plates

For air and surface sampling

TSA with Lecithin and Tween® 80, USP

For the cultivation and enumeration of microorganisms with Lok-Tight™ lid. Irradiated, triple bagged,

10/pk

P365

SabDex Agar with Lecithin & Tween® 80, USP

For the cultivation of fungi. With Lok-Tight™ lid.

Irradiated, triple bagged, 10/pk

P385





TRIO.BAS™

BIOLOGICAL AIR SAMPLER



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donates 1% of net
profits to charity.



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