

ASPIRATORS, PIPETTES



Assist
Pipette series



Assistboy
Pipette controller



FTA-2i
Aspirator with Trap Flask

FTA-2i, Aspirator with Trap Flask

DESCRIPTION

Aspirator with trap flask **FTA-2i** is designed for aspiration or removal of alcohol, buffer and liquid from reaction vessels (e.g. during DNA/RNA purification or other macromolecule reprecipitation techniques).

The device can be applied for routine operations of cells washing from culture medium and resuspension in a buffer. Aspirator operation principle is based on creating negative pressure in trapping flask using built-in microcompressor. The collecting tip is connected with polyethylene tube to the trapping flask. Liquid is removed from the reaction vessel when the collecting tip is in contact with the solution. A tube holder-organizer is conveniently located at **FTA-2i** right-hand side; it accommodates two 1.5–2 ml tube slots (e.g. for hydrochloric acid solution and distillate) necessary for collecting tip washing and storing, so that a tip can be re-used.

FTA-2i is equipped with a level sensor that detects excess liquid with consequential prevention of the overflow by automatically switching off the pump with a sounding alarm indication.

The devices come, as standard, with a vacuum regulation control knob that allows to select a preferable aspiration speed smoothly.

Additionally, a hand operator can be purchased for a more comfortable usability of the new accessories. The autoclavable hand operator features a pressure-sensitive button that can control the aspiration speed.

Common applications:

Removal and disposal of liquid from various reaction vessels

SPECIFICATIONS

Aspiration speed	up to 10 l/min (air)
Vacuum regulation	-200 to -800 mbar (adjustable)
Trap flask	2 l, polypropylene (autoclavable)
Liquid level sensor type	Invasive
Timer sound signal	yes
Overflow protection	Motor stops, light and sound signal
Filtration: Hydrophobic microbiologic filter 2200/02 eliminates risk of contamination from the trap flask by bacteria, viruses and infected particles	
Filter pore diameter	0.027 micron
Input current/power consumption	12 V, 1 A/10.8 W
External power supply	Input AC 100–240V 50/60 Hz; Output DC 12 V
Dimensions (WxDxH)	185 × 290 × 390 mm
Weight*	1.85 kg

* — Accurate within ±10%.



Product video is available on the website

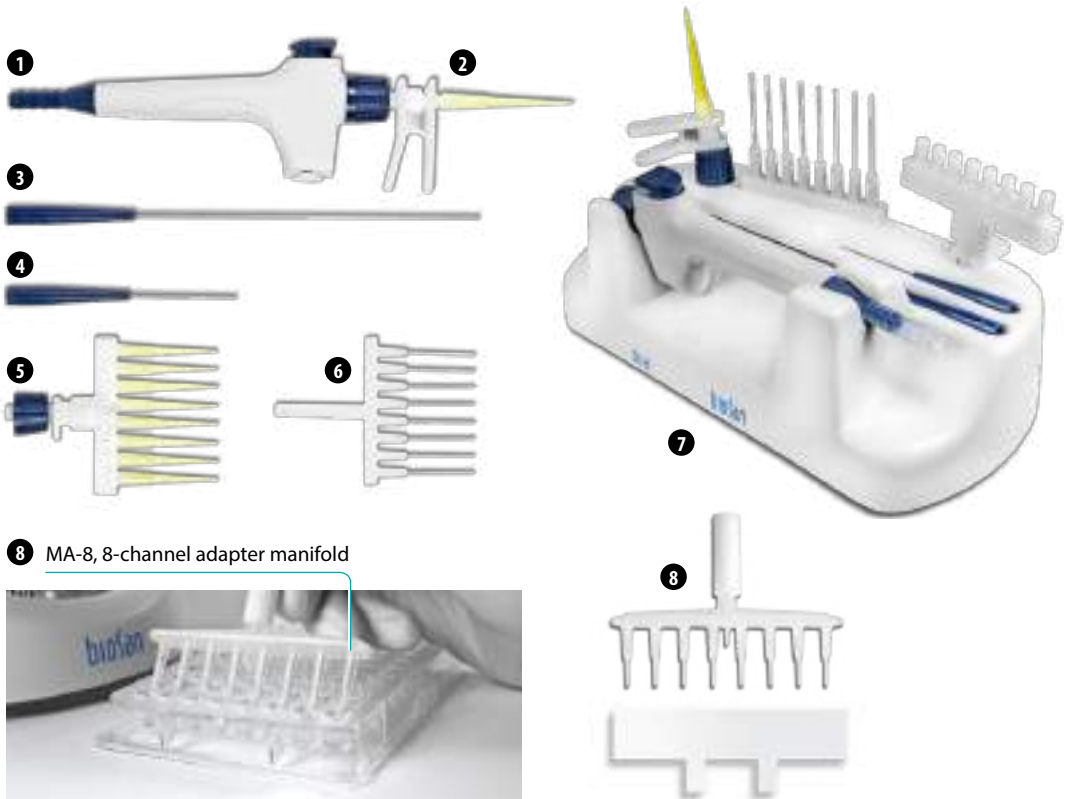


FTA-2i, Aspirator with Trap Flask

Optional accessories:

HAS-1, hand operator set

- ① Handheld vacuum controller;
- ② 1-channel adapter (with ejector) for 200 μ L tips;
- ③ 1-channel adapter with 125 mm stainless steel pin;
- ④ 1-channel adapter with 40 mm stainless steel pin;
- ⑤ 8-channel adapter (with ejector) for 200 μ L tips;
- ⑥ 8-channel adapter with 35 mm stainless steel pin;
- ⑦ Stand SH-6.



⑧ MA-8, 8-channel adapter manifold



ORDERING INFORMATION:

FTA-2i, with 2l trap flask, universal adapter **MA-U** (for 200/1000 μ L single use tips)

Cat. number 

BS-040120-A02

Optional accessories:

HAS-1, hand operator set

BS-040118-PK

MA-8, 8-channel adapter manifold

BS-040108-BK

Extended tubing 2 m long, with fittings and MA-U adapter

BS-040120-DK

Replacement parts:

Suction microbiologic hydrophobic filter

BS-040120-S10

MA-U, universal adapter for 200/1000 μ L single use tips

BS-040118-AK

FTA-1, Aspirator with Trap Flask

DESCRIPTION

Aspirator with trap flask **FTA-1** is designed for aspiration/removal of alcohol/buffer remaining quantities from microtest tube walls during DNA, RNA purification and other macromolecule reprecipitation techniques.

The device can also be used for routine operations of cells washing from culture medium and resuspension in a buffer. Aspirator operation principle is based on creating negative pressure in trapping flask using built-in microcompressor. The collecting tip is connected with polyethylene tube to the trapping flask. Liquid is removed from the microtest tube when the collecting tip touches the solution surface. A tube holder-organizer is conveniently located at **FTA-1** right-hand side; it accommodates two tubes (e.g. for hydrochloric acid solution and distillate) necessary for collecting tip washing and storing, so that a tip can be reused.

① Suction microbiological hydrophobic filter type 2200/02: Suction microbiologic filter eliminates the risk of contamination with bacteria, viruses and infected particle from patient to suction pump or central vacuum distribution. Suction microbiological filter is hydrophobic with very high bacterial blocking efficiencies, up to 99.99999% particles bigger than 0.027 μm (which is smaller than Hepatitis A, B and C).

SPECIFICATIONS

Vacuum	-500 mbar
Trap flask volume	1 l
Dimensions with trap flask (WxDxH)	160 × 210 × 340 mm
Weight with trap flask	1.7 kg
Input current/power consumption	12 V, 300 mA / 3.6 W
External power supply	Input AC 100–240 V; 50/60 Hz; Output DC 12 V



ORDERING INFORMATION:

Cat. number

FTA-1 with 1l trap flask BS-040108-AAG

Optional accessories:

MA-8 BS-040108-BK

Replacement parts:

Suction microbiologic hydrophobic filter BS-040108-S25

Basic Plus Product Class



Product video is available on the website

Optional 8-channel adapter manifold MA-8



I LOVE PIPETTE



Assist, pipette series

The Assist series pipettes are single, 8 or 12 channel variable volume pipettes designed to measure and transfer volumes.

Single-channel pipettes are produced in ten ranges of volumes from 0.1 μl to 10,000 μl depending on the model.

Multichannel pipettes are produced in four ranges of volumes: 0.5-10 μl , 5-50 μl , 20-200 μl , 50-300 μl .

The pipettes are equipped with an analogue counter which shows the pipetting volume. The volume setting is done by turning the pipetting pushbutton knob or the black adjustment knob in the right direction. The volume range is shown on the pipetting pushbutton.

DESCRIPTION

Common pipettes usage depending on the volume

AP2, AP10, AP8-10, AP12-10	Measurement and transfer of micro-volumes, DNA sequencing and enzyme-assay applications.
AP20, AP50, AP100, AP200, AP250, AP1000, AP8-50, AP12-50, AP8-200, AP12-10, AP8-300, AP12-300	Measurement and transfer of general aqueous solution, acids and bases.
AP5000, AP10000	Measurement and transfer of large volumes.

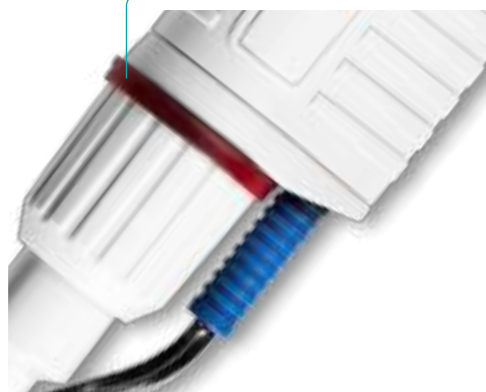
Pipette:	Volume (μl)	Colour code	Fit to tips	Cat. number
Single channel:				
AP2	0.1–2.0	●	10 μl	BS-010501
AP10	0.5–10.0	●		BS-010502
AP20	2–20	●	200 μl	BS-010503
AP50	5–50	●		BS-010504
AP100	10–100	●		BS-010505
AP200	20–200	●		BS-010506
AP250	50–250	●	300 μl	BS-010507
AP1000	100–1,000	●	1,000 μl	BS-010508
AP5000	500–5,000	○	5,000 μl	BS-010509
AP10000	1,000–10,000	○	10,000 μl	BS-010510
Multichannel:				
AP8-10 AP12-10	0.5–10	—	10 μl	BS-010511 BS-010512
AP8-50 AP12-50	5–50	—	200 μl	BS-010513 BS-010514
AP8-200 AP12-200	20–200	—		BS-010515 BS-010516
AP8-300 AP12-300	50–300	—	300 μl	BS-010517 BS-010518
Sets:				
AP10, AP20, AP200, AP1000, 4 position stand, demo tips				BS-010519
AP10, AP100, AP1000, AP5000, 4 position stand, demo tips				BS-010520

Assist, pipette series

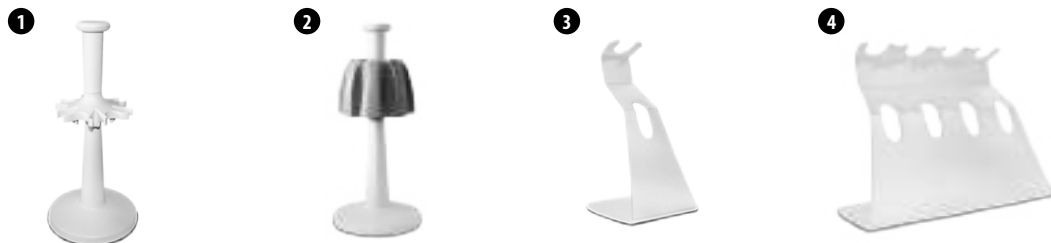
Features:

- Contoured shape of the handle and light weight;
- Proven accuracy and precision;
- UV resistant & fully autoclavable;
- 5 & 10 ml shaft protected by filter;
- Available in 8 and 12-channel version;
- Colour coded for easy volume identification;
- The adjustable ejector height system – to accommodate virtually all brands of tips;
- Dual volume setting using the pushbutton or the thumbwheel;
- Soft spring system for smooth, effortless pipetting.

Colour coded for easy volume identification



Pipette stands:	Cat. number
1 Carousel stand (rotating) for 6 pipettes	BS-010522
2 Multiple stand (fixed) for 8 pipettes	BS-010523
3 1-position stand	BS-010524
4 4-position stand	BS-010525



Pipette tips:	Cat. number
1 Pipette tips available in bulks – resealable plastic bags – keeping them safe from contamination. One bulk contains 200, 250 or 1,000 pieces of tips depending on the tip volume.	On request
2 Tips racked in durable polypropylene box providing good stability on the lab bench. One rack contains 96 or 100 pieces of tips depending on the tip volume.	On request
3 Stack racks secure the tips and save valuable space. One stack rack contains five trays with 96 tips. Available only for 10 µl and 200 µl tips. Can be used to refill standard racks.	On request



Assistboy, pipette controller



Assistboy pipette controller is a device intended for pipetting liquids with the use of measuring pipettes. It can work with all types of glass or plastic serological pipettes in the volume range from 0.5 ml to 100 ml.

Controller is equipped with an exchangeable filter membrane which protects shaft mechanism from aggressive liquid fumes.

Two dispense modes permit selection of dispensing intensity depending on the user's needs. The selected setting of the pipette controller mode is shown on display.

Safe and efficient work

- Protected by a PTFE filter blocking any liquid from entering the unit
- Autoclavable filter, the pipette holder and the nosepiece
- UV resistant body for safe sterilization
- Powerful, environmentally friendly 3 Ni-MH batteries enable many hours of continuous work
- LCD display showing battery charge level

Speed and working mode adjustment

- Function buttons for SPEED and working MODE control in a reach of a thumb
- Additional speed adjustment by the pressure applied to the trigger buttons

Working comfort

- Suitable for glass & plastic volumetric pipettes 0.5–100 ml
- Ergonomically shaped handle
- Well located function buttons
- Convenient charging stand

Charging stand



ORDERING INFORMATION:

Cat. number 

Assistboy with charging stand

BS-010521

