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Entomological Research Tools

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Insect Rearing Cages (4S and 4F Series)



4s1515

By Labitem's



The front panel of **41515** insect cage is of clear plastic. Centered in the **front panel** is a sleeve opening (**12 cm diameter**) for adding or removing insects and replacing food material. On the left-hand side of the opening is an additional clear panel for easy observation of insect activities. Top and remaining two side panels are of Polyester netting (**96 x 26 mesh**) for ventilation.

The framework of **41515** insect cage is of **lightweight fiberglass** and constructed outside the enclosure. There are no places for insects to hide inside the cage.

External dimensions of 42222 insect cage are only **L24.5 x W24.5 x H24.5** cm, making it a perfect fit for lab selves with limited space. The front panel of 42222 insect rearing cage is of clear plastic for observing insect activity. Top panel and three side panels are of Polyester netting (**96 x 26 mesh**) for ventilation. Centered in the **front panel** is a sleeve opening (**17 cm diameter**) for adding or removing insects and for replacing food material. A thin strip is sewn across the ceiling from which to suspend objects such as feeders.

The framework of lightweight fiberglass makes 42222 insect cage very easy to assemble. Simply use splints to connect poles. Moving 42222 will not make it fall apart because the netting is sewn to perfectly match and hold the frame.



4s2222

4S1515, 4S2222, 4S3030, 4S4545 could be used for rearing mosquitoes, midges or any other similar size of animals. The top, polyesteryne 96x26 perfectly allows feeding from top of the cage. For example sugar pads and artificial blood feeding of the hematophagous insects



4s3030



32.5x32.5x32.5cm dimensions

43030 insect cage is very easy to assemble by simply connecting plastic poles with splints. The front panel of 43030 is of clear plastic for observing insect activity; the top and three side panels are of Polyester netting (**96 x 26 mesh**) for ventilation. A thin strip is sewn across the ceiling from which to suspend objects, such as feeders.

There is a **18-cm sleeve opening** in the front panel for addition or removal of insects and for replacement of food material.

The **framework** of 43030 insect cage is of lightweight **fiberglass** and constructed outside the enclosure. There are no places for insects to hide inside the cage.

4S3030D Specimen Handling Cage

Of same materials and dimensions of 43030 insect cage, each 43030D has sleeves on opposite panels for handling insects inside the cage. Each sleeve has an **elastic band** for wrapping around the wrist to prevent insects from escaping.

Top and front panels are of clear plastic for observation.



32.5x32.5x32.5cm dimensions



4s4545



44545 insect cage is very easy to assemble by simply connecting poles with splints. The front panel of 44545 insect rearing cage is of clear plastic for observing insect activity; the top and three side panels are of fine Polyester netting (96 x 26 mesh) for ventilation. There is a 18-cm sleeve opening in the front panel for addition or removal of insects and for replacement of food material. A thin strip is sewn across the ceiling from which to suspend objects such as feeders.

The framework of 44545 insect cage is of lightweight fiberglass and constructed outside the enclosure. There are no places for insects to hide inside the cage.

47.5x47.5x47.5cm dimensions

By Labitem

Of same materials and dimensions of 44545 insect cage, each 44545D has two sleeves on front panel for easy insect handling. Each sleeve has an elastic band for wrapping around the wrist to prevent insects from escaping.

There is a large zip opening on the back panel for inserting large objects. Top and front panels are of clear plastic for observation.



4s4545D

47.5x47.5x47.5cm dimensions

By Labitem



4s4590



47.5x47.5x93cm dimensions

At 93-cm tall, BD-44590 insect cage is tall enough for small potted plants. The front and back panels of BD-44590 are of clear plastic for observing insect activity; the top and two side panels are of Polyester netting (**96 x 26 mesh**) for ventilation. A thin strip is sewn across the ceiling from which to suspend objects such as feeders. There are three openings in the front panel of BD-44590 insect rearing cage. The zippered opening is large enough to insert potted plants. On the zippered opening are two **18-cm sleeve openings** to permit addition or removal of insects and replacement of food without letting insects escape.

The framework of BD-44590 insect cage is of lightweight fiberglass and constructed outside the enclosure.

Of same materials and dimensions of 44590 insect cage, 44590DH sits horizontally and has an elastic band on each sleeve opening for wrapping around the wrist to prevent insects from escaping.

Top and front panels are of clear plastic for easy observation. Large zip opening on front panel aids adding or removing large objects.



4s4590DH



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Note: All of the above cages are available with identical specifications except with one variation i.e. mesh size as **150x150 grids per square inch** of the area. This particular mesh -size variation allows to work with **thrips, aphids or other similar size insects that may have sizes less than 0.5mm in size.** The cages with **96x26 grids per square inch** of the area mesh could be used to rear the insects/ animals that are more than **1mm in size.** Both mesh types i.e. 150x150 or 96x26 could be used to feed the animals/insects inside the cage through top of the cage.



Insect Rearing Cages 6S series

6S610 Insect Rearing Cage



- ❖ A 60-cm cube, BD-6610 insect cage is suitable for small potted plants.
- ❖ Front and back panels are of clear plastic for observing insect activity.
- ❖ Top and two side panels are of Polyester netting (**96 x 26 mesh**) for ventilation. A thin strip is sewn across the ceiling from which to suspend objects such as feeders.
- ❖ There are two openings in the front panel of insect rearing cage. The zippered opening is large enough to insert potted plants. On the zippered opening is a 18-cm sleeve opening for addition or removal of insects and replacement of food without letting insects escape.
- ❖ The framework of the insect cage is of **durable aluminum** and constructed outside the enclosure.
- ❖ No places or corners for insects to hide inside the cage.



6S620 Insect Rearing Cage



- ❖ 120-cm tall, 6620 insect cage is suitable for large potted plants.
- ❖ Front and back panels are of clear plastic for observing insect activity. Top and two side panels are of Polyester netting (96 x 26 mesh) for ventilation.
- ❖ A thin strip is sewn across the ceiling from which to suspend objects such as feeders.
- ❖ There are three openings in the front panel of 6620 insect rearing cage. The zippered opening is large enough to insert large plants. On the zippered opening are two 18-cm sleeve openings for addition or removal of insects and replacement of food without letting insects escape.
- ❖ The framework of 6620 insect cage is of durable aluminum and constructed outside the enclosure.

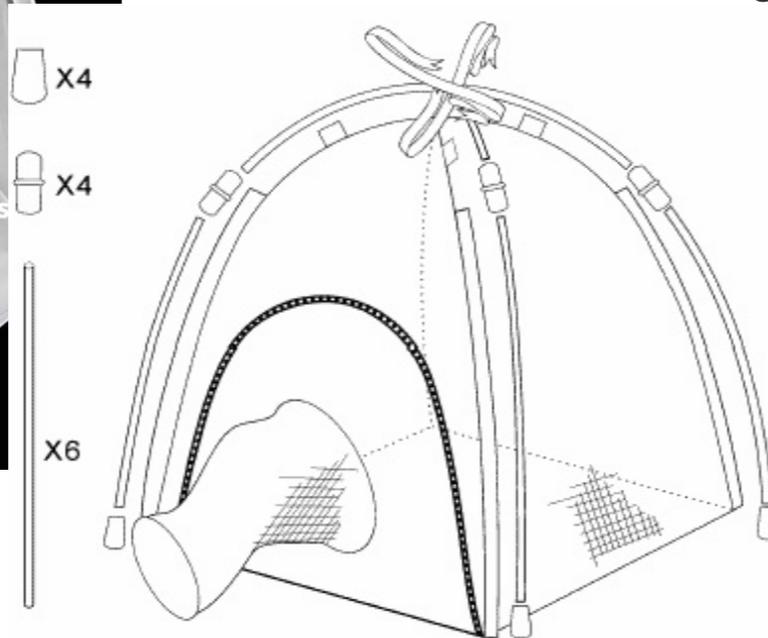
6S630 Insect Rearing Cage



- ❖ 180-cm tall, 6630 insect cage is suitable for large potted plants.
- ❖ Front and back panels are of clear plastic for observing insect activity. Top and two side panels are of Polyester netting (96 x 26 mesh) for ventilation.
- ❖ A thin strip is sewn across the ceiling from which to suspend objects such as feeders.
- ❖ There are three openings in the front panel of 6630 insect rearing cage. The zippered opening is large enough to insert large plants.
- ❖ On the zippered opening are two 18-cm sleeve openings for addition or removal of insects and replacement of food without letting insects escape.
- ❖ The framework of 6620 insect cage is of durable aluminum and constructed outside the enclosure.

Insect Rearing TENTS

Insect Rearing Tent - 2120



- ❖ Framework of lightweight fiberglass.
- ❖ 2120 is a portable housing for raising or breeding insects and other small animals such as spiders and lizards.

The front and back panels are of clear plastic for observation of insect activity; the two side panels are of Polyester netting (96 x 26 mesh) for ventilation.

The zippered opening is large enough to insert small potted plants. Centered in the zippered opening is a smaller sleeve opening (18 cm diameter) for addition or removal of insects and for replacement of food material without letting insects escape.

- Contents per Tent**
- 1 Tent
 - 4 Feet
 - 4 Splints (2-way)
 - 6 Support Poles (55 cm)

Specifications

Model	Type	Weight	Dimensions (L x W x H)	Panels				
				Front	Back	Right	Left	Floor
BD2120	Dome	420 grams	60 x 60 x 60 cm	Clear Vinyl	Clear Vinyl	Polyester Netting (96x26 mesh)	Polyester Netting (96x26 mesh)	White Vinyl



IRT - 2400



- ❖ Tent-like insect tent provides a large space for potted plants.
- ❖ Front and back panels are of clear plastic for observation of insect activity; the two side panels are of Polyester netting (96 x 26 mesh) for ventilation.
- ❖ There are three openings in the front panel of insect rearing tent.
- ❖ The zippered opening is large enough to insert potted plants. The two smaller sleeve openings (18 cm diameter) on the zippered opening permit addition or removal of insects and replacement of food without letting insects escape.

IRT - 2960



2960 is a long-awaited insect tent providing a very large space for potted plants. In addition to the large front entrance, there is one zippered window on each side panel, permitting observation of insect activities.

2960 insect tent is constructed so that support poles are outside the enclosure. There are no places for insects to hide inside 2960.

Through





Emergence traps



Amphibious Emergence Trap - Black - BT 2005



110x110x110cm

- ❖ One purpose of emergence traps is to estimate population densities of insects.
- ❖ Our amphibious emergence trap is basically a floorless tent with a collecting head and collecting bottle. It covers a ground surface area about one by one meters.
- ❖ When using the amphibious emergence trap as a soil emergence trap, place the trap over the selected survey spot. About 110-cm tall, this trap provides enough height to cover small shrubs or potted plants.
- ❖ Use dirt to cover the flaps around the base of each side to keep all emerging insects inside.

Amphibious Emergence Trap - Black & White - BT2004



110x110x110cm

- ❖ One purpose of emergence traps is to estimate population densities of insects.
- ❖ Our amphibious emergence trap is basically a floorless tent with a collecting head and collecting bottle. It covers a ground surface area about one by one meters.
- ❖ When using the amphibious emergence trap as a soil emergence trap, place the trap over the selected survey spot. About 110-cm tall, this trap provides enough height to cover small shrubs or potted plants.
- ❖ Use dirt to cover the flaps around the base of each side to keep all emerging insects inside.

Soil Emergence Trap - Black, 96x26 Mesh - BT2003



- ☼ This lightweight soil emergence trap is a small version of our amphibious emergence traps.
- ☼ It has flaps around the base that can be covered with soil to keep the insects inside. Loops at four corners are for the tent pegs (not included) needed in wind.
- ☼ To boost insect catch, this soil emergence trap is mostly black except the head entrance.
- ☼ A large dome-shaped zipper is in one panel for easy access to interior.

Soil Emergence Trap - Headless, 108x32 Mesh - BT2007



- ✿ This headless emergence trap is a simplified version of our soil emergence traps. Instead of collecting bottles, it has a small loop sewn on ceiling from which to suspend objects, such as a tray or sticky trap.
- ✿ The front panel of the headless emergence trap is of clear plastic for observation of insect activity; the three side panels are of white Polyester netting (108 x 32 mesh) for ventilation.
- ✿ The headless emergence trap has two openings: a 18-cm sleeve opening in the clear panel for removal of insects and a large dome-shaped zipper opening in the opposite mesh panel for easy access to inside.
- ✿ Headless emergence trap is floorless.
- ✿ The trap has flaps around the base that can be covered with soil to keep insects inside.
- ✿ Loops at each corner are for tent pegs (not included) needed to stake down the trap in windy conditions.
- ✿ Improvise a insect rearing tent by staking over plants.

Soil Emergence Trap - White, 108x32 Mesh - BT2006



- ✿ This emergence trap is the fine-mesh version of white soil emergence trap.
- ✿ Its thicker 108 x 32 mesh Polyester netting is almost twice as durable as the 96 x 26 mesh Polyester netting) in direct sunlight.
- ✿ The flaps around the base can be covered with soil to keep the insects inside.
- ✿ Loops at four corners are for the tent pegs (NOT included) needed in wind.
- ✿ A large dome-shaped zipper is in one panel for easy access to inside.

Malaise trapping

Bottom Collector for Standard SLAM Trap - BT1007



☼ Specifications:

Dimensions: L100 x W100 x H100 cm

Net Weight: 620 grams

Main Material: Nylon Cloth

Mesh Size: not applicable

- ☼ **Description:** The bottom collector is made to fit with our standard SLAM trap so that the SLAM trap can sample species (id est some Coleoptera) that fold their wings and drop after striking an obstacle. This bottom collector comes with a coarse mesh (3.6 cm by 3.6 cm grid) on top to stop large leaves and twigs from clogging the bottom collecting



SLAM Trap-4 headed- BT1006



☀ Specifications:

Dimensions: L156 x W156 x H170 cm

Net Weight: 2.53 kilograms

Main Material: Netting | Polyester

Mesh Size: 96 x 26 | 680 μ m aperture

☀ Descriptions:

Of the same size as our large SLAM trap, this unique 4-headed SLAM trap is equipped with four collecting heads/bottles. Designed to distinguish insects intercepted from four directions, each collecting head opens from one of the four quadrants defined by the trap's cross baffle.

The 4-headed SLAM trap is made of fine Polyester fabric (96 x 26 mesh/square inch). It comes with one removable "moth excluder" (2 x 2 mesh/square inch) at each head to keep out unwanted large insects

SLAM Trap Large - BT1005



☀ Specifications:

Dimensions: L156 x W156 x H170 cm

Net Weight: 1.98 kilograms

Main Material: Netting | Polyester

Mesh Size: 96 x 26 | 680 μm aperture

☀ Description:

With similar structure as our standard SLAM trap, this large SLAM trap is much bigger (156x156x170 cm vs. 110x110x110 cm) and has an interception area 2.4 times larger than the standard SLAM trap.

Installation of the large SLAM trap is straightforward. Of fine Polyester fabric, the large SLAM trap has a removable "moth excluder (2 x 2 mesh/square inch)" at the collecting head entrance to prevent entry of unwanted large insects. The collecting head has a mesh ventilation window to optimize catch.

Since the large SLAM trap is much taller than the standard SLAM trap, it does not work on water.



SLAM Trap - Standard BT1004



☀ Specifications:

Dimensions: L110 x W110 x H110 cm

Net Weight: 1.23 kilograms

Main Material: Netting | Polyester

Mesh Size: 96 x 26 | 680 μm aperture

Malaise traps are used extensively in biodiversity surveys because of their potential for catching many taxa of airborne insects. However, entomologists have to overcome several innate shortcomings of the traditional Malaise trap: complex and time-consuming assembly and disassembly; poor mobility because of difficult installation; large, open area required for set up; and high cost. These disadvantages can greatly restrict the scope and use of the Malaise trap.

ez-Migration trap -BT1003



Specifications:

Dimensions: L180 x W180 x H176 cm

Net Weight: 2.75 kilograms

Main Material: Netting | Polyester

Mesh Size: 96 x 26 | 680 μm aperture

Description:

Some entomologists found that east facing collecting heads of classical Malaise trap filled in the morning and western facing collecting heads filled in the afternoon. Therefore, they compromised by having the collecting head face south.

The ez-Migration trap (aka 2-headed Malaise trap) comes with two collecting bottles: one on each end of the trap. Insects intercepted on each side of center panel are collected separately by the ez-Migration trap. This not only makes trap orientation less of a concern, but it also helps identify insect flight direction.

Fast & Easy - Set Up ez-Migration Trap in Minutes!

As easy to assemble as our ez-Malaise traps, the ez-Migration trap uses a framework of shock-corded poles to allow quick installation. Simply hook clips around provided poles. The ez-Migration trap is nearly freestanding, requiring a minimum of two guy ropes. This feature is lifesaving when deploying traps where there are no trees nearby. It also allows the ez-Migration trap be used as a short-term sampling tool since repositioning the trap is very easy.



ez-Malaise Trap-BT1002



Specifications:

Dimensions: L165 x W180 x H180 cm

Net Weight: 2.07 kilograms

Main Material: Netting | Polyester

Mesh Size: 96 x 26 | 680 μm aperture

Description:

One advantage of the Malaise trap is that it efficiently catches flying insects such as Hymenoptera and Diptera. Since it does not, by itself, attract insects, placement of a Malaise trap can significantly affect the number of insects caught. This Townes-style ez-Malaise trap is for scientists experienced with the hassles of setting up a Malaise trap when the ideal location has no trees to supply support.

Fast & Easy - Set Up ez-Malaise Trap in Minutes!

Of the same dimensions as our traditional Malaise trap, the ez-Malaise trap is improved by the addition of a framework of shock-corded poles, permitting quick installation. Simply hook clips onto provided poles. The ez-Malaise trap is nearly freestanding, requiring a minimum of two guy ropes. This timesaving feature is a lifesaver for those who need to deploy many Malaise traps in habitats where trees and bushes are hard to reach.

The Malaise trap is often viewed as a long-term sampling tool. Since this ez-Malaise trap is so easy to assemble, it can be repositioned anytime and used on a short-term basis.



Standard Malaise Trap-BT1001



Specifications

Dimensions: L165 x W115 x H190 cm

Net Weight: 870 grams

Main Material: Netting | Polyester

Mesh Size: 96 x 26 | 680 µm aperture

Description:

The mesh size of its white roof is 108 x 32 mesh/square inch (changed from 96 x 26 mesh/square inch). Malaise traps are widely used in biodiversity surveys because they efficiently trap a wide range of flying insects. One of the main complaints about the Malaise trap, though, is its cost, especially compared to other trapping tools.

This economical Malaise trap is the result of quality sewing work. Its black Polyester no-see-um fabric (96 x 26 mesh/square inch) catches minute insects, including parasitic wasps. The interception area (center panel) of our Malaise trap is 165 by 110 cm (5.4 ft by 3.6 ft). If you place trays with killing agents underneath this interceptor, it also functions as a flight interception trap (FIT) or window trap, sampling specimens (i.e. some beetles) that drop or fly down after hitting an obstruction.

Each Townes-style Malaise trap comes equipped with one 500 ml collecting bottle. The catch is easily removed by unscrewing this collecting bottle from the connecting ring. Tent pegs, guy ropes, and support poles required for trap installation are NOT included in the package.



Berlese Sampling

Standard Berlese Funnel (Ø34 cm)



Specifications:

Dimensions: L36.5 x W36.5 x H52 cm

Net Weight: 1,550 grams

Main Material: Plastic | Polyethylene

Mesh Size: 7-mm sieve opening

Description:

Housed in an aluminum framework, our Standard Berlese Funnels are lightweight (1.55 kilos including the aluminum frame) and easy to install (L36.5 x W36.5 x H52 cm after assembly). All parts are detachable and stackable. These funnels are very suitable for use in the wilderness and laboratories where there is no access to electricity.

Our Standard Berlese Funnel is designed so that it can be hung by strings (NOT included). To accelerate extraction of soil organisms, external heat sources (NOT included) can be easily attached to the aluminum frame.

Because the funnel (34-cm diameters, 35-cm high) is made of PE plastic, it has a very sleek internal surface and cannot be easily deformed. There is no risk of it getting rusty. The Standard Berlese Funnel uses a 50-ml Eppendorf tube as the bottom container for collecting extracted organisms.





Tray-type Berlese Funnel

Ø43 cm | Ø30 cm | Ø40 cm

Specifications:

Dimensions: Ø43 x H95 cm

Net Weight: 520 grams

Main Material: Nylon Cloth

Mesh Size: 4/6/11 mm sieve opening

Description:

Our tray-type Berlese funnel is designed to let moisture evaporate naturally through the netting in the top compartment. It can rapidly extract soil-dwelling arthropods without requiring a heat source, especially when only a thin layer of leaf litter or humus is placed on the tray. This makes the tray-type Berlese funnel a very efficient tool for locations where there is no electricity. Because it is lightweight (520 grams) and the tray is stackable, many can be packed for field trips.

Each tray-type Berlese funnel consists of five parts: top, tray, funnel, connector, and collecting tube. The top compartment is of white Nylon netting (104 x 94 mesh/square inch) to permit light to enter and moisture to quickly evaporate.

The tray is of grey plastic and cut into grille to hold soil samples. The bottom funnel is of black, smooth Nylon cloth. The tube connector is of PE plastic and connects the funnel to a collecting tube. Each tray-type Berlese funnel comes with one Eppendorf tube (50 ml) for collection containers. When expected extraction amount is large, other containers (e.g. Whirl-Pak® sampling bag, NOT sold at the Store) may be tied onto the connector.

The fast-release design of the tube connector permits cleaning of overlooked specimens from bottom opening.



Insect Bait Traps

Pop-up Butterfly Bait Trap (Ø10-cm cone opening) DC0017



- ✿ Our pop-up -**lightweight (310 grams)** - butterfly bait trap easily fits into backpacks for field trips and extremely small (21 cm diameter by 5 cm thick) after folded.
- ✿ Of 96 x 26 mesh polyester netting, this butterfly bait trap has a full-length (about 90 cm) zippered side opening for removal of captured butterflies.
- ✿ The trap is held open by foldable rings (38 cm in diameter) at top and bottom of the black cylinder. Inside are a white top and a white funnel with a 10 cm diameter opening.
- ✿ A removable bait tray (20 cm in diameter, included) hangs by plastic hooks from three drawstrings beneath the cylinder. To hook tray to cylinder, pass the hook through the hole in the tray so the open part of the hook is outside the tray.
- ✿ An 8 cm long "skirt" is sewn to the bottom.
- ✿ You can either fold up this skirt or use the cord lock attached to each drawstring to adjust the gap between bait tray and bottom entrance.
- ✿ For a larger landing platform, simply attach cardboard or ha sheeting (not provided) to bottom of the tray.



Pop-up Butterfly Bait Trap (Ø20-cm cone opening) [DC0022]

- ✿ Similar to the other Pop-up Butterfly Bait Trap (DC0017) but with a wider, Ø20 cm cone opening



Pop-up Butterfly Bait Trap (tropical type) [DC0018]



- ☀ **Dimensions:**

- ☀ Extremely small - 21 cm diameter by 5 cm thick after folded
- ☀ lightweight - 280 grams

- ☀ The trap is held open by foldable rings (38 cm diameter) at top and bottom of the black cylinder.

- ☀ Of 96 x 26 mesh polyester netting, this pop-up butterfly bait trap is equipped with a 2-way, full-length (**about 90 cm**) zippered side opening convenient for removing captured butterflies from either top-down or bottom-up.

- ☀ **There is no cone or lip at bottom to stop butterflies from escaping.**

- ☀ The removable bait tray (**20 cm in diameter, included**) hangs by plastic hooks from three drawstrings beneath the cylinder. To hook tray to cylinder, pass the hook through the hole in the tray so the open part of the hook is outside the tray.

- ☀ There is an 8 cm long "skirt" sewn to the bottom. You can either fold up this skirt or use the cord lock attached to each drawstring to adjust the gap between bait tray and bottom entrance.

- ☀ For a larger landing platform, simply attach cardboard or hard plastic sheeting (not provided) to bottom of the tray.

Night Collecting Tent

BT3001



Our night collecting tent provides a convenient way for night insect collection. With the built-in support poles, the installation of our night collecting tent is fast and easy.



Berlese sampling

Pop-up Berlese Funnel (Ø40 cm)



- ☀ Berlese funnels and Winker selectors are effective tools for separating leaf litter and humus from photophobic insects and arachnids, which generally favor humid environments.
- ☀ The traditional style of these extraction devices is often heavy (made of metal or thick canvas), bulky (unfoldable), inconvenient (use affected by accessibility to electricity), and time-consuming (when extracting specimens from a thick layer of sample). These disadvantages become even more of a problem when conducting experiments in difficult terrain and remote areas.
- ☀ Our pop-up Berlese funnel is designed to let moisture evaporate naturally through the netting in the top compartment. It can rapidly extract soil-dwelling arthropods without requiring a heat source, especially when only a thin layer of leaf litter or humus is placed on the gauze. This makes the pop-up Berlese funnel a very efficient tool for locations where there is no electricity.
- ☀ Because it is lightweight (**310 grams**) and really small when folded (**16 cm diameter by 8 cm thick**), many can be packed for field trips, expediting experiments. Use of a light bulb (NOT included) as a heat source is also possible: simply clinch top opening around lamp socket base or place the heat source to shine into the funnel.
- ☀ Each pop-up Berlese funnel consists of **five parts: top, gauze, funnel, connector, and collecting tube**. The top compartment is of white Nylon netting (104 x 94 mesh/square inch) to permit light to enter and moisture to quickly evaporate. The gauze is of black Polyester netting (mesh aperture about 6 mm) sewn to fold over a metal ring that holds Berlese funnel open. The bottom funnel is of black, smooth Nylon cloth. The tube connector is of PE pipe and connects the funnel to a collecting tube.

Tray-type Berlese Funnel (Ø30 cm)



BT5001

One Variant:
Tray-type Berlese Funnel (Ø43 cm) -
BT5002

Weight: 520gms

Mesh: 104 x 94 mesh/square inch

- ✿ Weight : 320 gms,
 - ▶ Samples Holding material: Funnel
 - ▶ Mesh: 104x94 fine mesh
- ✿ Each tray-type Berlese funnel consists of **five parts**: top, tray, funnel, connector, and collecting tube. The top compartment is of white Nylon netting (**104 x 94 mesh/square inch**) to permit light to enter and moisture to quickly evaporate.
- ✿ The tray is of grey plastic and cut into grille to hold soil samples.
- ✿ The bottom funnel is of black, smooth Nylon cloth. The tube connector is of PE plastic and connects the funnel to a collecting tube.
- ✿ Each tray-type Berlese funnel comes with one Eppendorf tube (50 ml) for collection containers. When expected extraction amount is large, other containers (e.g. Whirl-Pak® sampling bag, NOT sold at the Store) may be tied onto the connector.
- ✿ The fast-release design of the tube connector permits cleaning of overlooked specimens from bottom opening.



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Standard Berlese Funnel (Ø34 cm)



BT5004

Material: Aluminum Framework

Type: Standard Berlese Funnel

Weight: 1.55 kg

Dimensions: L36.5 x W36.5 x H52 cm after assembly

Design: Modular, All parts are detachable and stackable

Suitability: These funnels are very suitable for use in the wilderness and laboratories where there is no access to electricity.

- ✿ Our Standard Berlese Funnel is designed so that it can be hung by strings (NOT included).
- ✿ To accelerate extraction of soil organisms, external heat sources (NOT included) can be easily attached to the aluminum frame.
- ✿ Because the funnel (34-cm diameters, 35-cm high) is made of PE plastic, it has a very sleek internal surface and cannot be easily deformed or rusted
- ✿ The trap uses a 50-ml tube as the bottom container for collecting extracted organisms.
- ✿ To hold soil or leaf litter samples, this Standard Berlese Funnel uses a 30-cm diameter PP plastic tray with apertures 7-mm in size. Filters of any smaller apertures can be placed on the tray.
- ✿ At the top of the funnel, a removable pop-up mesh lid (33.5-cm diameter) fits perfectly in the rim to stop critters from escaping or entering the soil and leaf litter samples.
- ✿ Because this top cover is of Polyester netting (96x26 mesh), the good ventilation of humidity from the sample to the environment



Mini Insect Breeders

Mini Insect Breeder - BD7001-BD7004



- ❖ The mini emergence trap / insect breeder provides a simple method for rearing insects, such as mosquito larvae, taken in the field.
- ❖ A water sample containing larvae is placed in the bottom container.
- ❖ Emerging adults will fly into top collection cup through the vinyl funnel.
- ❖ Wire screen on top allows good ventilation. Collected adult insects can be removed easily using an aspirator.

NOTE: When assembling, push top collection cup against the inverse funnel until it sits firmly on funnel.

Mini Soil Emergence Trap



- ❖ The **mini soil emergence trap** provides a simple method for collecting insects emerging from soil taken in the field.
- ❖ A soil sample possibly containing insect larvae is placed in the bottom container. Emerging adults will fly or crawl into top collection cup through the vinyl funnel.
- ❖ Nylon screen on top allows good ventilation.
- ❖ Collected adult insects can be removed easily using an aspirator.

NOTE: When assembling, push top collection cup against the inverse funnel until it sits firmly on funnel.

Insect Rearing Boxes

Insect Rearing Box with Nylon Screen Port

Screen port for ventilation

By Labitems

Microwavable Plastic container

With good visibility, these **1.5-liter**, microwavable containers are ideal for raising small colonies of disease vectors in labs with restricted space.

A highly breathable donut lid with Nylon screen.

Highly suitable to promote healthy larval growth

Variation:

Metal screen could be placed instead of Nylon Screen





Insect Rearing Bag (L30 x W20 cm)
[DC3220]



Insect Rearing Sleeve (L70 x W30 cm)
[DC3000W-L]



Insect Rearing Sleeve (L40 x W20 cm)
[DC3000W-S]



Insect Rearing Bag (L30 x W10 cm)
[DC3210]

Insect Rearing Bags



Insect Rearing Bag (L15 x W6 cm)
[DC3206]



Insect Rearing Bag (L40 x W25 cm)
[DC3225]



Insect Rearing Bag (L100 x W66 cm)
[DC3170]



Insect Rearing Bag (L71 x W48 cm)
[DC3148]

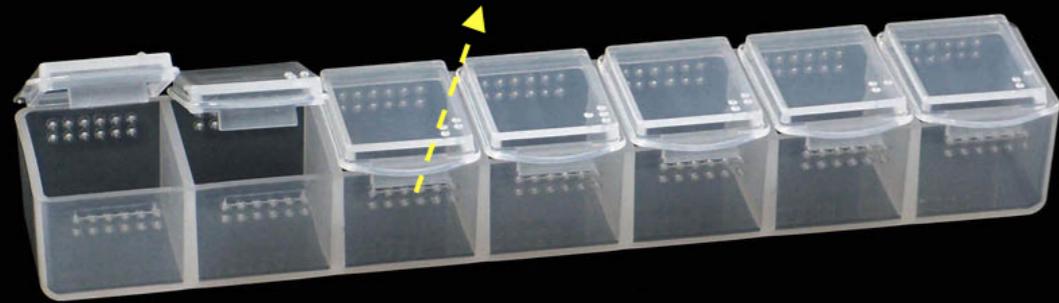
Slide the bag over the leaves. Tie shut with attached strings. This insect rearing bag of fine Nylon netting (**104 x 94 mesh/square inch**) is an economical solution for studying insects *in-situ and for restricting target insects to a small area.*

Variants (All bags have 104x94 mesh);
Below measurements are in centimeters (**cm**)

1. L15 X W6
2. L30 X W10
3. L30 X W20
4. L40 X W25
5. L71 X W45
6. L100 X W66
7. L40 X W20
8. L70 X W30



Lasercut aeration holes



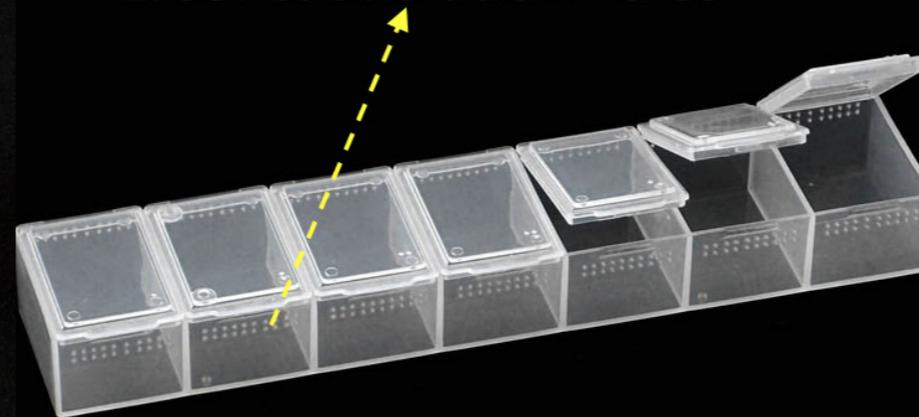
Large - BD5056 - For rearing individual insects

REARING CELLS

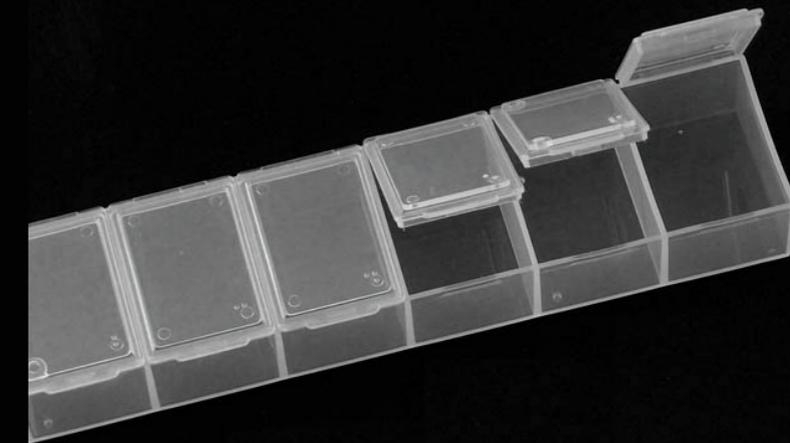
Large - BD5055 - Pill box



Lasercut aeration holes



Small - BD5054 - Pill box for individual insect studies



BD5053 Pill box without aeration holes



Insect Collection Nets or Beating Trays

Beating Tray (Ø90 cm) - DC0014-9



The beating tray consists of one foldable ring, one catching bag, one retractable aluminum handle extending from 45 cm to 105 cm long, and one carrying bag.

Beating Tray (Ø60 cm) - DC0014-6



The beating tray consists of one foldable ring, one catching bag, one retractable aluminum handle extending from 45 cm to 105 cm long, and one carrying bag.

Insect Net Rings

Insect Net Ring (Ø 30 cm, 5/16" male connector)	DM0052-30
Insect Net Ring (Ø 38 cm, 5/16" male connector)	DM0052-38
Insect Net Ring (Ø 42 cm, 5/16" male connector)	DM0052-42
Insect Net Ring (Ø 46 cm, 5/16" male connector)	DM0052-46
Insect Net Ring (Ø 50 cm, 5/16" male connector)	DM0052-50
Insect Net Ring (Ø 60 cm, 5/16" male connector)	DM0052-60
Insect Net Ring (Ø 30 cm, 1/2" male connector)	DM0091-30
Insect Net Ring (Ø 38 cm, 1/2" male connector)	DM0091-38
Insect Net Ring (Ø 42 cm, 1/2" male connector)	DM0091-42
Insect Net Ring (Ø 46 cm, 1/2" male connector)	DM0091-46
Insect Net Ring (Ø 50 cm, 1/2" male connector)	DM0091-50
Insect Net Ring (Ø 60 cm, 1/2" male connector)	DM0091-60
Insect Net Ring (Ø 30 cm, M6 male connector)	DM0092-30
Insect Net Ring (Ø 38 cm, M6 male connector)	DM0092-38
Insect Net Ring (Ø 42 cm, M6 male connector)	DM0092-42
Insect Net Ring (Ø 46 cm, M6 male connector)	DM0092-46
Insect Net Ring (Ø 50 cm, M6 male connector)	DM0092-50
Insect Net Ring (Ø 60 cm, M6 male connector)	DM0092-60

This foldable insect net ring is compatible with our aerial inset / butterfly net bags, anodized aluminum handles, and carbon fiber handles.

Carbon-fiber Based Insect Net Handle

Suitable for use with sweep nets, this carbon fiber handle weighs only 30 grams.

Compatible with our insect / butterfly net rings with 5/16" male connector.

1. DO0012 -34 (Carbon fiber) 1-segment, Length 35 cm, 5/16" inch (7.9mm) female connector
2. DO0032 -4 (Carbon fiber): Extremely lightweight, foldable insect net handle. 11 segments extend from 61cm to 530cm. Compatible with our insect / butterfly net rings with 1/2" male connectors.
3. DO0032-1B (Carbon fiber): Extremely lightweight, foldable insect net handle. Six (6) segments extend from 56cm to 270cm. Compatible with our insect / butterfly net rings with 1/2" male connectors.
4. DO0032 -2 (Carbon fiber): Extremely lightweight, foldable insect net handle. Eight (8) segments extend from 56cm to 360cm. Compatible with our insect / butterfly net rings with 1/2" male connectors.
5. DO0032 -3 (Carbon fiber): Extremely lightweight, foldable insect net handle. Nine (9) segments extend from 61cm to 450cm. Compatible with our insect / butterfly net rings with 1/2" male connectors. Attention: Can only be used when fully extended



Fiberglass Based Insect Net Handle

1. DO0031 -1 (made of fiberglass): An extremely lightweight and foldable insect net handle. **Five (5)** segments extend from **39cm to 164cm**, making it easy to fit into a small backpack when folded. Dark and frosted paints on its surface eliminate the chance to scare off insects sensitive to light reflection.
2. DO0031 -2 (made of fiberglass): An extremely lightweight and foldable insect net handle. Six (6) segments extend from 39cm to 198cm, making it easy to fit into a small backpack when folded. Dark and frosted paints on its surface eliminate the chance to scare off insects sensitive to light reflection.

Although handles of fiberglass are slightly heavier than that of carbon-fibe, fiberglass is a much sturdier material than carbon-fiber, making it less likely to crack when sweeping the handle against hard surfaces e.g. rocks and tree trunks. The fiberglass is also much less conductive than carbon-fiber, making it safer to be used over where there are electrical wires.

Compatible with our insect / butterfly net rings with 5/16" male connectors. Can only be used when fully extended.



Insect Net Bag

Insect Net Bag (aerial, Ø 30 cm)	DC0005-30
Insect Net Bag (aerial, Ø 38 cm)	DC0005-38
Insect Net Bag (aerial, Ø 42 cm)	DC0005-42
Insect Net Bag (aerial, Ø 46 cm)	DC0005-46
Insect Net Bag (aerial, Ø 50 cm)	DC0005-50
Insect Net Bag (aerial, Ø 60 cm)	DC0005-60
Insect Net Bag (sweep, Ø 30 cm)	DC0006-30
Insect Net Bag (sweep, Ø 38 cm)	DC0006-38

Compatible with our insect / butterfly net rings, these net bags are of fine and soft Nylon netting (104 x 94 mesh/ square inch) suitable for capturing insect species with fragile wings, such as butterflies and dragonflies. These net bags have excellent visibility through the mesh and low wind resistance. Since they easily snag on bush, they are for aerial use only.

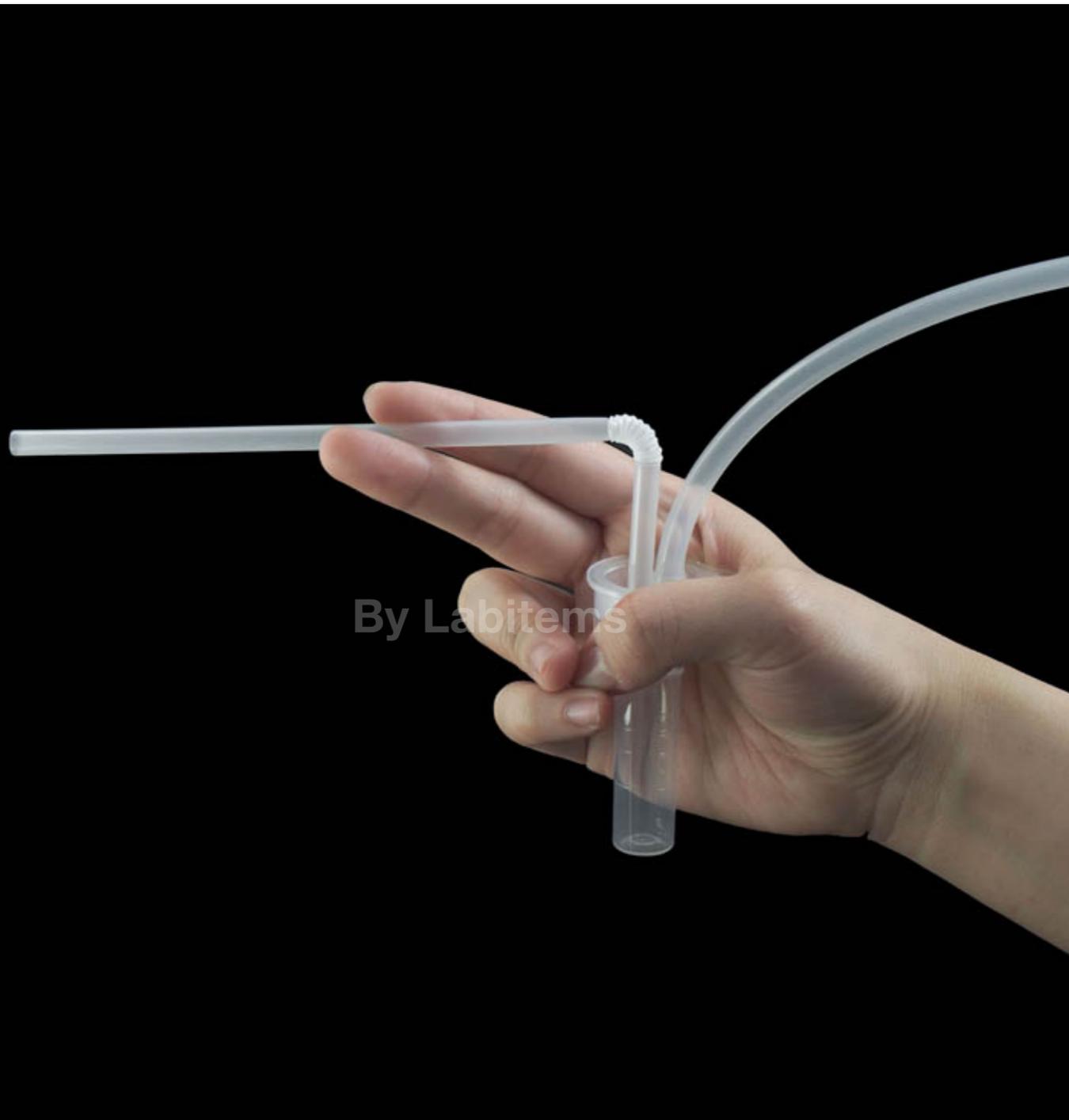
Aspirators

Aspirator S6/S8/S12 BA1001 - 03



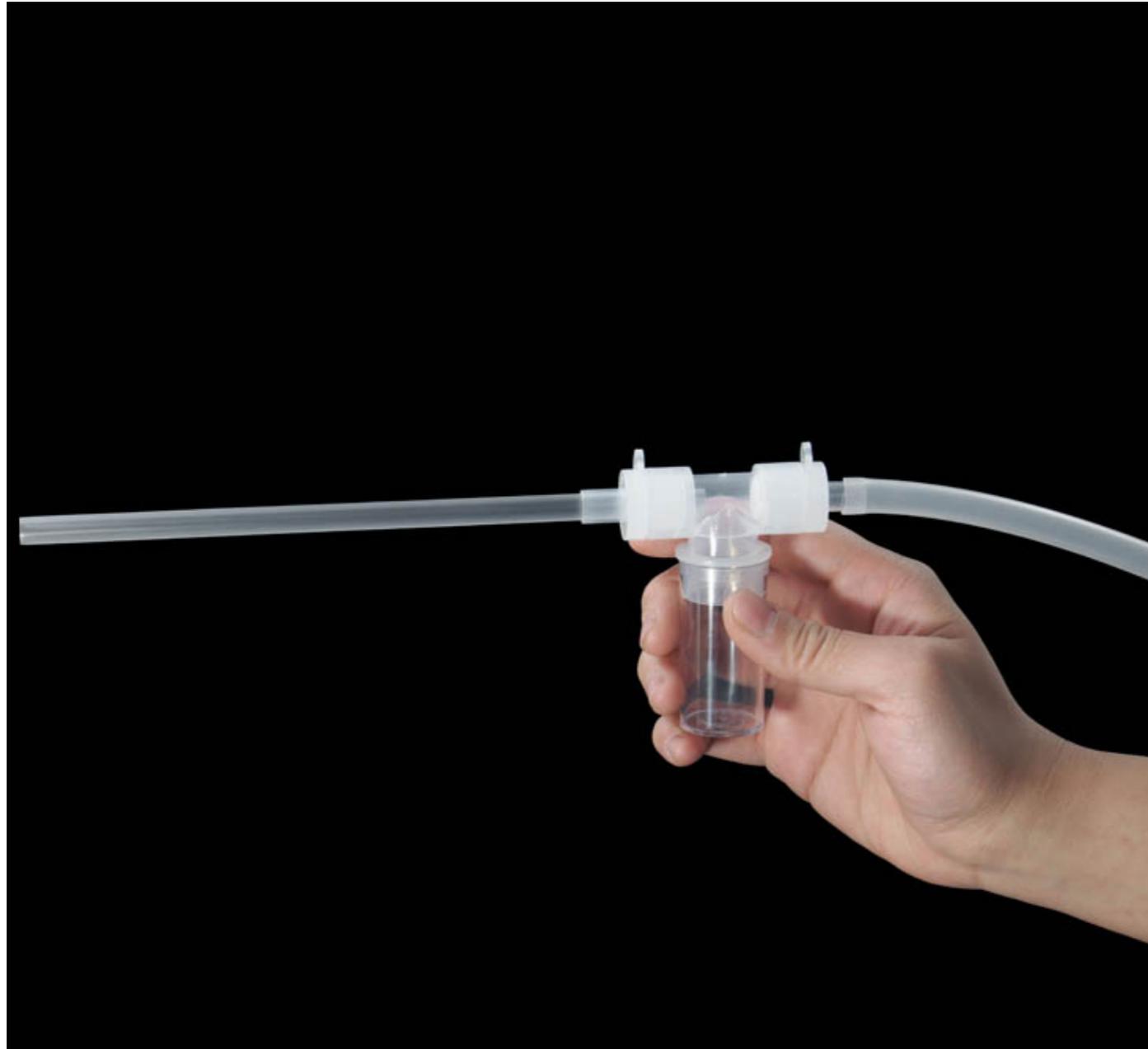
- ❖ Filter at air-exhaust side of insect collecting compartment.
- ❖ Decreases risk of swallowing hazardous particles and reduces air pressure damage to insects.
- ❖ Insect pick-up pipe is easily removed and replaces a vial (DP0079-5, included) for transfer of caught insects.
- ❖ **Variations:**
 - ❖ BA1003 - S12 Aspirator w/Ø12 mm Pick-up Straw
 - ❖ BA1002 - S6 Aspirator w/ Ø6 mm Pick-up Straw
 - ❖ BA1001 - S8 Aspirator w/ Ø8 mm Pick-up Straw

B6 Aspirator BA3001



- ❖ The bendy straw is convenient for adjusting angles between vial and insect pick-up straw.
- ❖ As angle of insect pick-up straw is adjustable, insect collecting vial can stay upright, making it possible to keep an insect killing agent (e.g. alcohol) in collecting vial while using aspirator.
- ❖ Four vials (DP0079-5 and DP0101-2) are included for insect collecting and insect storing use. Vial DP0101-1 is also compatible, which is not included in the package.
- ❖ **Variations:**
- ❖ Single variant

Insect Aspirator T6/ T8/ T12 BA2001-03



- ❖ Filter at air-exhaust side of insect collecting compartment decreases risk of swallowing hazardous particles and reduces air pressure damage to insects.
- ❖ T-shape insect collecting compartment provides a comfortable way to hold the aspirator.

Variations:

- BA2001 - T6 Aspi w/ Ø6 mm Pick-up Straw
- BA2002 - T8 Aspi w/ Ø8 mm Pick-up Straw
- BA2003 - 12 Aspi w/ Ø12 mm Pick-up Straw

Aspirator H12/ H8/ H6 BA5001-03



- ❖ Some insects, such as ants and beetles, can emit particles harmful to the human body. There are also cases when desired insects are collected from feces or carcasses.
- ❖ H-type aspirators decrease risk of swallowing hazardous particles by **blowing air into aspirator** instead of sucking air from aspirator.
- ❖ Insect pick-up straw can be turned to any direction.
- ❖ Easy to adjust angle between vial and insect pick-up straw.

Variations:

BA5003 - H12 Aspi w/ Ø12 mm Pick-up Straw

BA5002 - H8 Aspirator w/ Ø8 mm Pick-up Straw

BA5001 - H6 Aspirator w/ Ø6 mm Pick-up Straw

HB6/ HB8/ HB12 Aspirator BA6001-03



- ❖ Some insects, such as ants and beetles, can emit particles harmful to the human body.
- ❖ Some times it is desired to collect insects from feces or carcasses.
- ❖ Our HB-type aspirators decrease risk of swallowing hazardous particles by **blowing air into aspirator** with a hand-held syringe bulb **instead of sucking air** from aspirator. Insect pick-up straw can be turned to any direction. Easy to adjust angle between vial and insect pick-up straw.

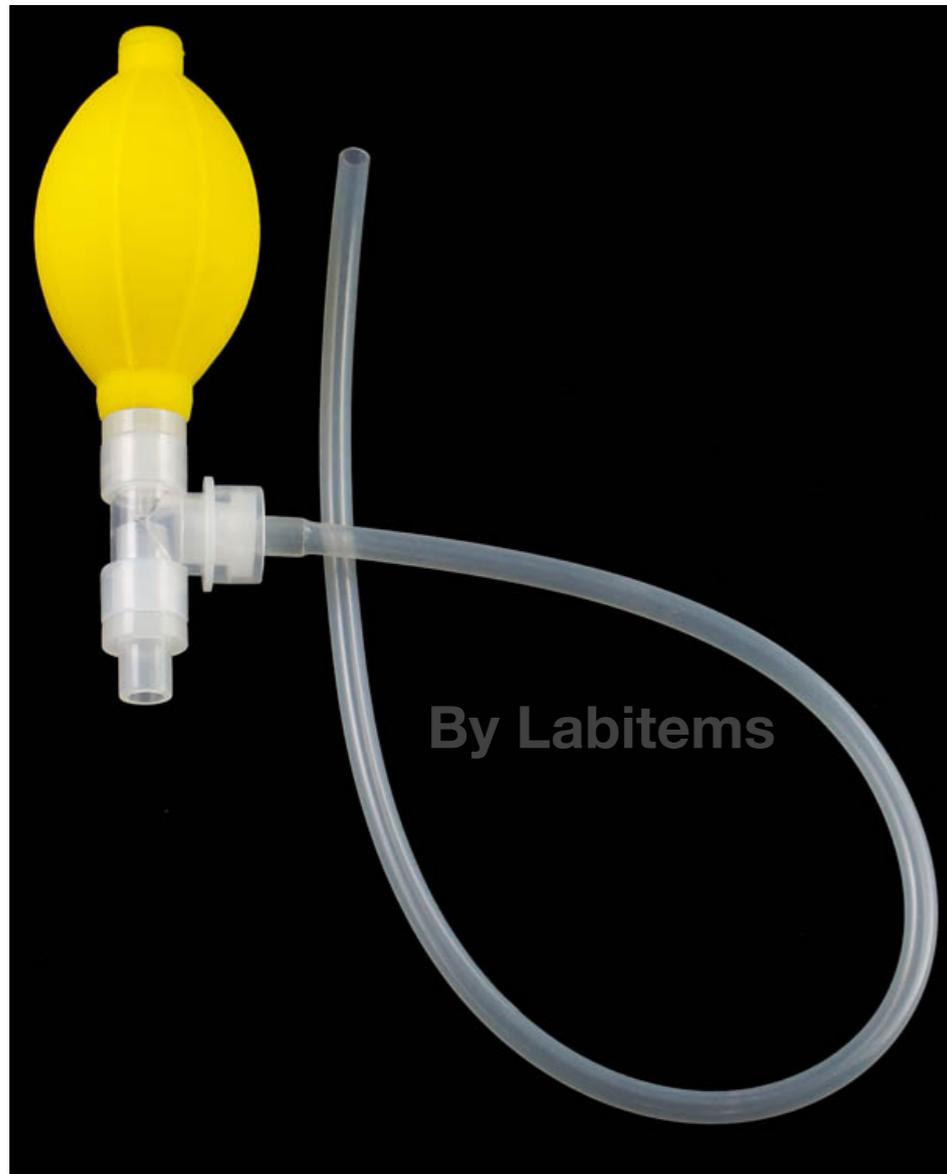
Variations:

BA6003 - HB12 Aspi w/ Ø12 mm Pick-up Straw

BA6002 - HB6 Aspi w/ Ø6 mm Pick-up Straw

BA6001 - HB8 Aspi w/ Ø8 mm Pick-up Straw

Aspirator Blowing Kit BA0001-1



To decrease risk of accidental ingestion of hazardous particles, our blowing kit transforms most intake-type aspirators into blow-type aspirators where air is blown into the aspirator with a hand-held syringe bulb.

To draw insects into the collecting chamber efficiently using this blowing kit, you should squeeze the syringe bulb brief and strong to create sufficient negative air pressure.

Variations:

BA0001 - 01 Ø6 / Ø8 mm Silicon Tubing

BA0001 - 02 Ø8 / Ø10 mm Silicon Tubing

BA0001 - 03 Ø9 / Ø11 mm Silicon Tubing

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Ordering

All orders treated confirmed after the receipt of the PO by accepting our general and payment terms including the Disclaimer attached along with the quotes or emails.

Cancellation

Once ordered can't be cancelled for any reason

Warranty

All of our products, in general, carry with warranty from manufacturing defects. No physical damages are considered for either replacement or to correct at free of cost. However, we consider the natural degradation or wear and tear results in tearing of the cage within an year from the date of supply of the material. This one year warranty is conditioned upon normal or suggested use.

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