

MOSQUITO TRAP FOR PERMANENT OUTDOOR USE



MANUAL

EN - Before using the product, please read the information in this manual and follow all instructions.

BG - Protector 12 V



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SAFETY INSTRUCTIONS AND WARNINGS

- Protect from prolonged exposure to direct sunlight and heat.
- Use only Biogents extension cords.
- Do not operate near flammable gases or explosive substances.
- Use CO₂ only outdoors.



INSTRUCTIONS FOR USE

Product information

Model: BG-Protector 12 V
Model number: 12280

Use and operation

The BG-Protector 12 V outdoor mosquito trap reduces the mosquito population in outdoor areas and mosquito bites up to 93% over time. The trap imitates the presence of a human being, in particular thanks to Biogents' patented, insecticide-free attractant which is placed inside the trap and CO₂. The attractants are diffused by the air currents created by the trap. Mosquitoes are attracted, thinking they've spotted a prey to bite. They are then sucked into the trap and dehydrate.

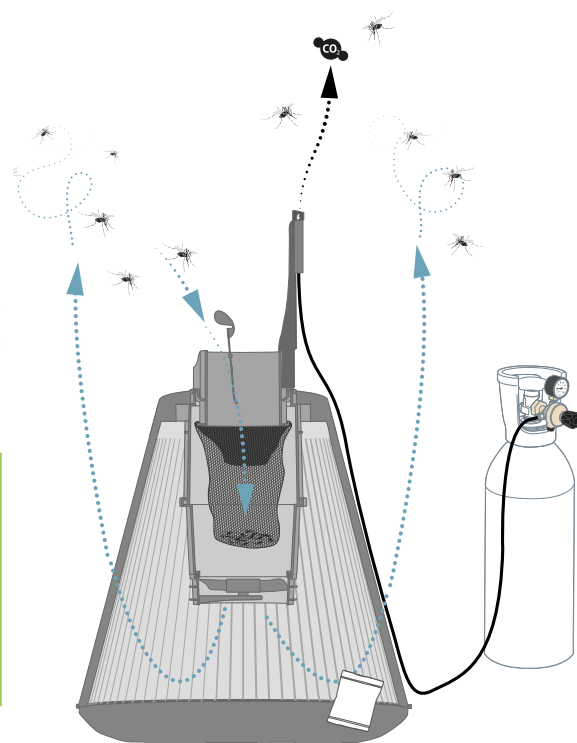
The trap can be used as a stand-alone trap or as part of a trap network of up to 3 traps.



**Remove
breeding sites
weekly**



Eliminate as many stagnant water sources as possible, such as plant saucers, buckets and other containers likely to hold water; clean gutters. Cover rainwater harvesters completely.





WHAT'S IN THE BOX?

- ① CO₂ nozzle, specifically designed for the BG-Protector 12 V
- ② Intake funnel with shutter
- ③ Funnel net
- ④ Catch bag (x2)
- ⑤ Trap body
- ⑥ Trap base



TO BE PURCHASE SEPARATELY

- ⑦ Outdoor power supply Typ III (alternatively, you can use a battery or solar)
- ⑧ Attractant BG-Mozzibait, set of 10
- ⑨ BG-Booster CO₂ Pro:
 - ⑨a Pressure regulator for CO₂ cylinders,
 - ⑨b 2 x 20 m CO₂ pipe
 - ⑨c 3 x CO₂-flow restrictor (necessary for every trap setup, regardless of whether 1, 2 or 3 traps)
 - ⑨d 2x straight connector
 - ⑨f 2x Y-connector
- ⑩ BG-CO₂ Timer





ASSEMBLE THE TRAP

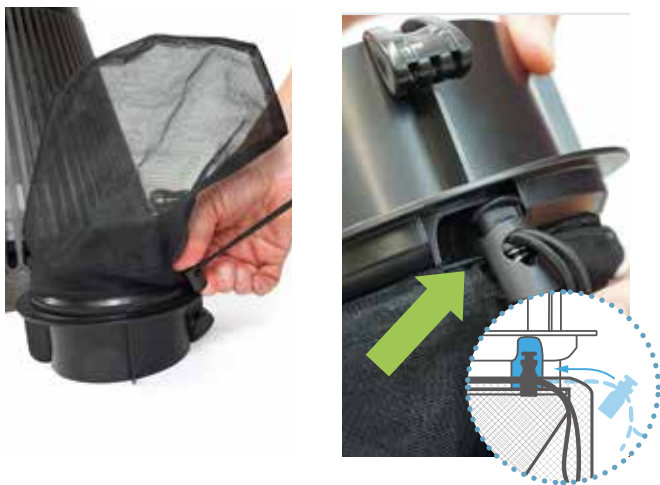
- A** Start the set-up with the intake funnel (2), funnel net (3), and catch bag (4).



- B** Turn the intake funnel (2) over and pull the funnel net (3) over it. Then pull the catch bag (4) over the funnel net.



- C** Fix the catch bag (4) by tightening the cord. Place the cord holder in the notch of the funnel.



- D** Pull the funnel net into shape.



- E** Insert the funnel into the opening of the upper cylinder.



- F** Fix the funnel by turning it around until it snaps into place.





ADDING THE ATTRACTANT

OUR ATTRACTANT BG-MOZZIBAIT
INCREASES CATCH RATES OF THE TRAP

- G** Place the attractant BG-Mozzibait **8** (cartridge when single version or sachet when saver pack set of 10 is used) in the slot in the base **6**.



- H** Connect the trap body **5** to the base **6** by sliding the oval elements into each other.



- I** Connect the power supply type III cable **7** to the trap.





ADDING CO₂

CO₂ INCREASES CATCH RATES FOR ALL MOSQUITO SPECIES INCL. TIGER MOSQUITOES

WHAT YOU NEED FOR ADDING CO₂:

- A BG-BOOSTER CO₂ PRO SET
- A CO₂ BOTTLE (10 KG RECOMMENDED)



Please note

When using the BG-Booster CO₂ Pro set it is mandatory to use the red flow restrictor (9c).



B Insert the red flow restrictor (9c) into the CO₂ pipe (9b).



C Insert the red flow restrictor with the CO₂ pipe into the nozzle.



Now connect the CO₂ pipe with the CO₂ source, see next steps.





ADDING CO₂: CONNECTING THE GAS CYLINDER

- D** Screw the pressure regulator nut (9a) onto the gas cylinder. Make sure the connection is watertight using a 27 mm open-end wrench or a socket wrench.



- E** Unscrew the nut at the base of the pressure reducer. Pass the free end of the CO₂ pipe that goes to the gas cylinder through the nut.



- F** Then insert the end of the CO₂ pipe onto the regulator nozzle and tighten the nut with a 10 mm open-end wrench.



- H** Adjust the CO₂ flow by turning the black knob.

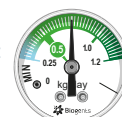


CO₂ flow settings are dependent on the number of traps that are connected with the CO₂ cylinder. Please note that the settings are not proportional to the number of traps!

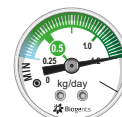
Settings for 1 trap:
0.5 kg / day



Settings for 2 traps:
0.75 kg / day



Settings for 3 traps:
1.2 kg / day



- G** Open the CO₂ cylinder valve by turning counter-clockwise.



BG-Counter

If you are using the BG-Protector 12 V as a stand-alone trap with a BG-Counter, use the maximum setting (about 1.4 kg per day). Please note that in this specific case, the CO₂ release rate is not determined by the setting of the pressure regulator. When using a BG-Counter, the release rate is determined by the opening time of a valve that is located inside the BG-Counter. The setting of the release rate can be changed in the BG-Counter app.

i Did you know?

A drop in pressure may be observed in the first 24 hours after commissioning. In this case, readjust the flow rate to the desired value.



USING THE BG-COUNTER

BY ADDING A BG-COUNTER TO YOUR
BG-PROTECTOR, YOU CAN REMOTELY
COUNT MOSQUITOES.

- A** To place the BG-Counter (12 V, order no. #10805) on the top of your stand-alone trap, first remove the intake funnel of the BG-Protector. When using the BG-Counter, the CO₂ nozzle is not used. The pipe is attached directly to the BG-Counter.



- B** The funnel net must always be attached to the BG-Counter. It is important to avoid double counts of insects crawling out.



- C** A catch bag must be installed so that trapped insects cannot escape through the lateral openings of the BG-Protector.

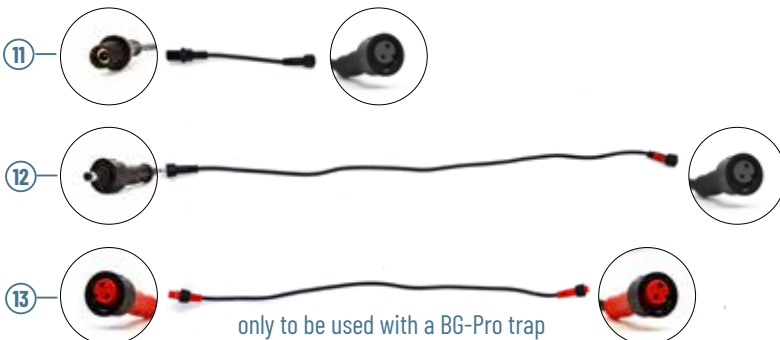


- D** Place the BG-Counter into the opening on top of the trap and turn it clockwise until it fits tight.



- E** In the BG-Counter box, there are three adapter cables. Colours may vary!

- **11** The shortest cable is the power supply adapter cable.
- **12** The longest one is the fan adapter cable for the BG-Protector 12 V with a Type III connection.
- **13** The middle one is the fan adapter cable for a BG-Pro trap for researchers with a Type II connection. Please use this cable only when connecting to a BG-Pro trap.



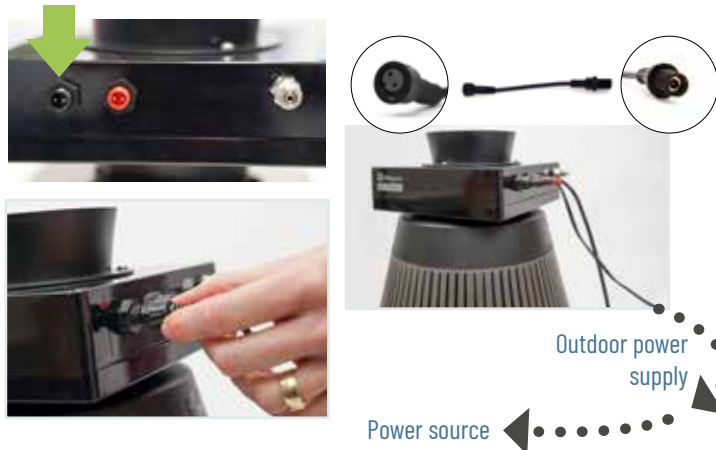


USING THE BG-COUNTER

- F** Use the long fan adapter cable **12** to connect the BG-Counter with the trap. Note that at the side of the BG-Counter, there are two sockets: a black socket (left), and a red socket (right). Plug the fan adapter cable **12** into the red socket of the BG-Counter and at the other end into the socket located at the bottom part of the BG-Protector 12 V.



- G** To be able to connect the BG-Counter to the power supply, you need to first plug the power supply adapter cable **11** into the left socket (black) of the BG-Counter. Then connect the outdoor power supply.



To protect the BG-Counter on a BG-Protector 12 V against vandalism we recommend using a metal enclosure (Order no. # 12748).

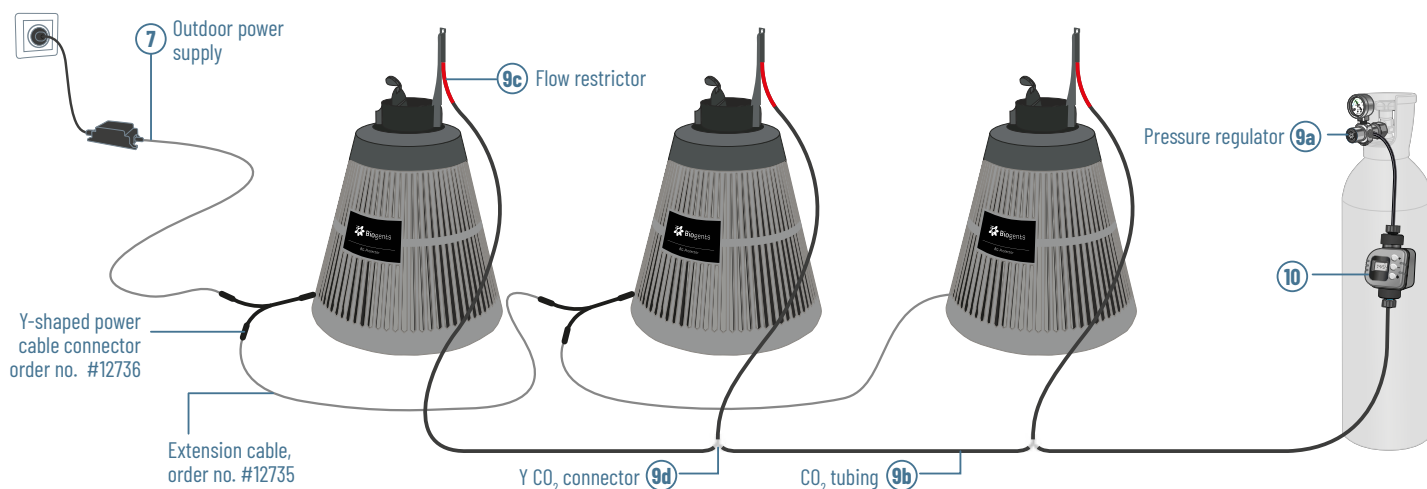
You can find more detailed instructions in the BG-Counter manual:



SMALL TRAP NETWORKS OF UP TO 3 TRAPS

You can use the BG-Protector in small Trap Networks of up to 3 traps. The following graphic shows you the schematic set-up of the components. You can use one single plug and one CO₂ source for several traps:

If you want to add the BG-Counter 12 V to your trap network, it should run on a stand-alone BG-Protector 12 V and with an extra CO₂ source.



HOW MANY TRAPS DO I NEED?

It all depends on the number of mosquitoes and the landscape design! General rule: One trap with CO₂ covers an area of up to 700 m². If you plan to protect an outdoor area with a trap network, we recommend placing one trap every 15-20 m.

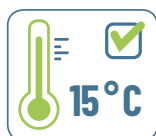


GOOD POSITIONING IS ESSENTIAL

TEST DIFFERENT LOCATIONS TO
ACHIEVE OPTIMAL RESULTS!

GOOD POSITIONING IS ESSENTIAL FOR OPTIMUM EFFICACY

WHEN?



When the average temperature exceeds 15°C,
as mosquitoes are very active
above this temperature.



As early in the year as possible
before mosquitoes breed and
lay their eggs.



24 hours a day, 7 days a week
For maximum efficacy make sure the trap
operates 24 hours a day, 7 days a week.

WHERE?



In a damp, shady area, close to plants
where mosquitoes rest during the day.



Sheltered from wind and sun
as mosquitoes don't like these conditions.



More than 5 m from where people spend time
to avoid attracting mosquitoes.



The trap is weatherproof



CO₂ INFORMATION

WHERE TO FIND CO₂?

The BG-Booster CO₂ PRO requires a CO₂ cylinder or tank.
CO₂ cylinders are available from specialist retailers or online.

Did you know?



If the gauge reads 0, either the cylinder is closed or empty
and needs replacing.

HOW TO INSTALL A CO₂ CYLINDER?



Not in the sun



Vertical



Outdoors



1 trap:
10 kg of CO₂ at 0.5 kg / day = 20 days of use
With the BG-CO₂ Timer you can increase the
utilisation period!



DON'T FORGET MAINTENANCE!

MAINTENANCE IS ESSENTIAL
TO MAINTAIN TRAP EFFICACY.

REPLACE THE ATTRACTANT EVERY 2 MONTHS



CLEAN THE CATCH BAG AS SOON AS IT IS HALF-FULL OR VERY DIRTY

A Lift the intake funnel ② keeping half of the bag inside the trap.



B Remove the catch bag ④ from intake funnel ②, keeping it close to the suction to prevent mosquitoes escaping. Simultaneously, fix the catch bag by tightening the cord.



C Replace the dirty catch bag

Place the new, clean catch bag ④ around the intake funnel. Clean the funnel net ③ with warm water if there is a lot of dust on it.



D Put the funnel back into the trap



E Leave the dirty catch bag in the sun

for a few hours to dehydrate any remaining mosquitoes. You can then open the catch bag and empty it without any risk of mosquitoes escaping.



F Clean the dirty catch bag

with hot water to remove dust. Never use cleaning products.

The catch bag is now ready for reuse at the next maintenance visit.



TECHNICAL DATA



Appliance of class II

Technical data

Model: BG-Protector 12 V

Weight: 2.2 kg

Dimension incl. nozzle : 389 mm x 389 mm x 650 mm

Ventilator 12V DC, 2.2 W

Power Supply: input 100-240 V AC, 60/50 Hz; output 12 V 1 A

Power consumption: 3 W

IP 55

Manufacturer: Biogents AG

An der Irlter Höhe 3a

93055 Regensburg, Germany



The «crossed-out wheeled garbage bin» WEEE symbol means that you are legally obliged to dispose these devices separately from unsorted municipal waste.

Disposal in household waste, e.g. in the residual waste bin or the yellow bin, is prohibited. Avoid improper disposal by correctly disposing of the device at special collection and return points.

Made in PRC



CONTACT

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IT



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