



MOSQUITO MANAGEMENT SYSTEM

user manual

MODELS

BX3M Master

BX3S Satellite

BX3S Server

SYSTEMS

Master-Satellite Combo System

Server-Satellite 4 Point System



Inventions for a Better Lifestyle

 **Bantix**
worldwide



MOSQUITO MANAGEMENT SYSTEM


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Please read the instructions in this manual carefully so that you can install and operate your Mosquito Management System safely and effectively. A number of factors, including best placement of the trap, regular topping-up of the collection tray with Lactic solution, exchanging spent Octenol cartridges and keeping up the supply of Carbon Dioxide (CO₂) will affect catch results. The instructions in this manual will help you get the best results from your Bantix Worldwide Mosquito Management System.

Information in this document is subject to change without notice.

Intended use

The  Trap is designed to impact the mosquito breeding cycle and reduce local populations by trapping and drowning a variety of mosquitoes and midges. Bantix Worldwide Pty Ltd does not claim that use of this product will result in complete removal of these insects from a certain locality. Factors, including prevailing environmental conditions and proper maintenance, will affect results.

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Patent

The  Trap technology has protection under US Patent No. 6,199,316 and foreign counterparts.



This trademark is owned by Bantix Worldwide Pty Ltd.

Compliance

C-Tick CE FCC UL N19324 Octenol cartridge: EPA Est.No.34473-MA-1

Note to USA users: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under FCC rules.

English Language Version, Printed in Australia 3-230904



contents

| | |
|----------------------------|-------|
| Safety First | 4 |
| System Specifications | 5 |
| Parts and Locations | 6 |
| Installation Procedure | 7–9 |
| Control Clock Programming | 13–15 |
| Maintenance & Servicing | 16 |
| Troubleshooting | 19 |
| Frequently Asked Questions | 20 |
| Gas Usage Guide | 21 |
| Warranty | 22 |

Safety First

Safety Precautions

For safety, the Mosquito Management Systems and individual traps use 12 V AC extra low voltage power similar to many garden lighting systems. The voltage label appears on the rear of the unit.

- CAUTION** → Keep out of reach of children.
- CAUTION** → Do not put fingers or hands inside the machine when it is operating.
- CAUTION** → To prevent fire or shock hazard, do not hose the unit or immerse in water.
- CAUTION** → The Octenol cartridge must not be used for any other purpose. Follow the manufacturer's instructions on the cartridge packaging when handling and replacing the Octenol cartridge. First aid directions are printed on the Octenol packaging. Keep the cartridge packaging for reference in the future. Keep out of reach of children.
- CAUTION** → Lactic lure is not to be ingested. Keep out of reach of children and pets. Follow the instructions described under 'maintenance & servicing' in this manual when handling and topping-up the Lactic solution. Refer to the precautions on the Lactic lure container.
- CAUTION** → To avoid malfunction, do not position the trap in range of automatic sprinklers.
- IMPORTANT** → Additional precautions are posted throughout this Document.



System Specifications

| | SYSTEM SPECIFICATIONS SERVER-SATELLITE 4 POINT SYSTEM This system comprises 4 non-gas traps. | MASTER-SATELLITE COMBO SYSTEM (Uses CO ₂) This system comprises 2 traps. |
|--|---|---|
| Carbon Dioxide (CO ₂) | No | Yes (The Master unit feeds gas to the Satellite unit) |
| Lactic Female Mosquito Lure | Yes | Yes |
| Octenol | Yes | Yes |
| UV Light | Yes | Yes |
| Spectrum Light | Yes | Yes |
| Heat | Yes | Yes |
| Moisture | Yes | Yes |
| Sound (to mimic a feeding female mosquito) | Yes | Yes |
| Movement (light) | Yes | Yes |
| Colour | Yes | Yes |
| Power Requirement | 12V AC 50Hz – 60Hz 5 Amp | 12V AC 50Hz– 60Hz 5 Amp |
| Average Running Power Consumption | 9 W per unit/36 W system | 9 W per unit/18 W system |
| Maximum Running Power Consumption | 12 W per unit/48 W system | 12 W per unit/24 W system |
| Transformer | 110-240 V AC to 12V AC, 5 Amp, 50-60 Hz | 110-240 V AC to 12V AC, 5 Amp, 50-60 Hz |
| Dimensions (L x W x H) of each unit | Unit: 330mm x 210mm x 210mm | Unit:330mm x 210mm x 210mm |
| Colour | Black | Black |
| Unit Casing Material | Copolymer Polypropylene | Copolymer Polypropylene |
| Weight | 1.45kg x 4 | Master 2.2kg, Satellite 1.45kg x 1 |
| Shipping Package | 4 cartons | 2 cartons |
| Operating Temperature | 4°C to 45°C | 4°C to 45°C |
| Operating Position | Horizontal only | Horizontal only |

Other Trap Configurations

1. A single Master trap incorporates the 10 attractants and is powered by the same 12 VAC 5 Amp transformer as the Master-Satellite Combo System.
2. A Server unit can operate as a stand alone unit. It does not use CO₂, but can incorporate all the other attractants. A 12 V AC 5 Amp transformer powers the unit.

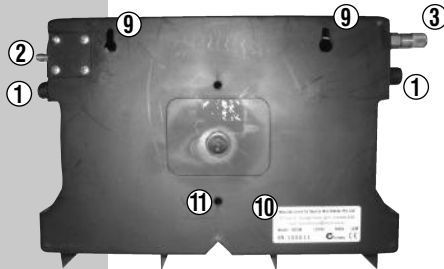
Note: Bantix Worldwide mosquito management systems and traps do not come with a CO₂ cylinder. A gas cylinder can be rented from any gas supplier. A gas regulator is not required. See page 7.

Parts & Locations



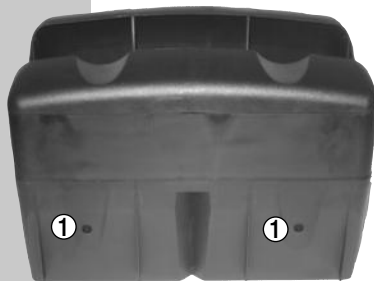
Front view

1. Power Plug
2. Gas Inlet
3. Gas Outlet
(on Master, Inlet on Satellite)
4. Control Clock (Master unit only)*
5. UV Tube
6. Octenol Cartridge
7. Heater
8. Tray
9. Lens
10. Spectrum Light Prism



Rear view

1. Power plug
2. Gas Inlet
3. Gas Outlet
(on Master, Inlet on Satellite)
9. Mounting key holes
10. Voltage & Serial No.
11. Extra mounting hole



Underside view

1. Mounting hole

*The Server and Satellite units do not have control clocks.



Installation procedure

CAUTION Do not plug in, turn on or attempt to operate an obviously damaged unit.

CAUTION The transformer is factory-set for 110–120V AC or 220–240V AC as marked on the equipment. Ensure that the voltage available at the installation site meets the factory set voltage range marking, as provided on the equipment.

1.0 Selecting the best position

This is a high technology, scientifically-based system, so it is important to position the trap where it will work most effectively. Please contact your distributor for advice on your specific situation. Before choosing a location, consider these factors:

- 1.1 The trap is designed to attract mosquitoes and midges/sandflies. Therefore, the trap should not be positioned close to where you entertain, barbecue or relax. Ideally, position the trap at least 10 metres (30 to 40 feet) away from these activities to draw the mosquitoes away.
- 1.2 Identify suspected breeding sites, such as stagnant or standing water, tall grass and other vegetation. Position the trap as close to these areas as possible.
- 1.3 If installing a Master unit or Master-Satellite Combo System, please note that CO₂ is heavier than air and, therefore, the gas will fall or drift downhill. If placing the trap on an undulating site, locate it on high ground. It is preferable to position the trap above the suspected breeding sites and, if possible, above the area you want protected.
- 1.4 The direction of prevailing winds should also be considered as mosquitoes sense their prey from downwind.
- 1.5 The best position for most traps is at the rear of the yard, but the nearest available power outlet may determine where the trap will be installed. When installing a Master-Satellite Combo on a small residential block, you may be able to install the Satellite unit in the front yard to give you better protection. Contact your distributor for extension electrical leads and gas extension hoses.
- 1.6 To decide the ideal location for a Master unit and the gas cylinder you need to consider the following: The transformer has to be sited so its 2m electrical cord can be plugged into the power outlet. Electrical cords to connect power from the transformer to the trap come in 5m (standard), 10m and 20m lengths. The main gas hose from the gas cylinder to the Master unit is 1.5m

(standard). A 3m main gas hose is also available. If longer main gas hoses are needed, please contact your distributor to have these customized.

- 1.7 It is best to place the gas cylinder in the shade, if possible, and where it won't be knocked or tripped over. For added safety, secure to a fence, wall or other suitable structure.

Server-Satellite 4 Point System

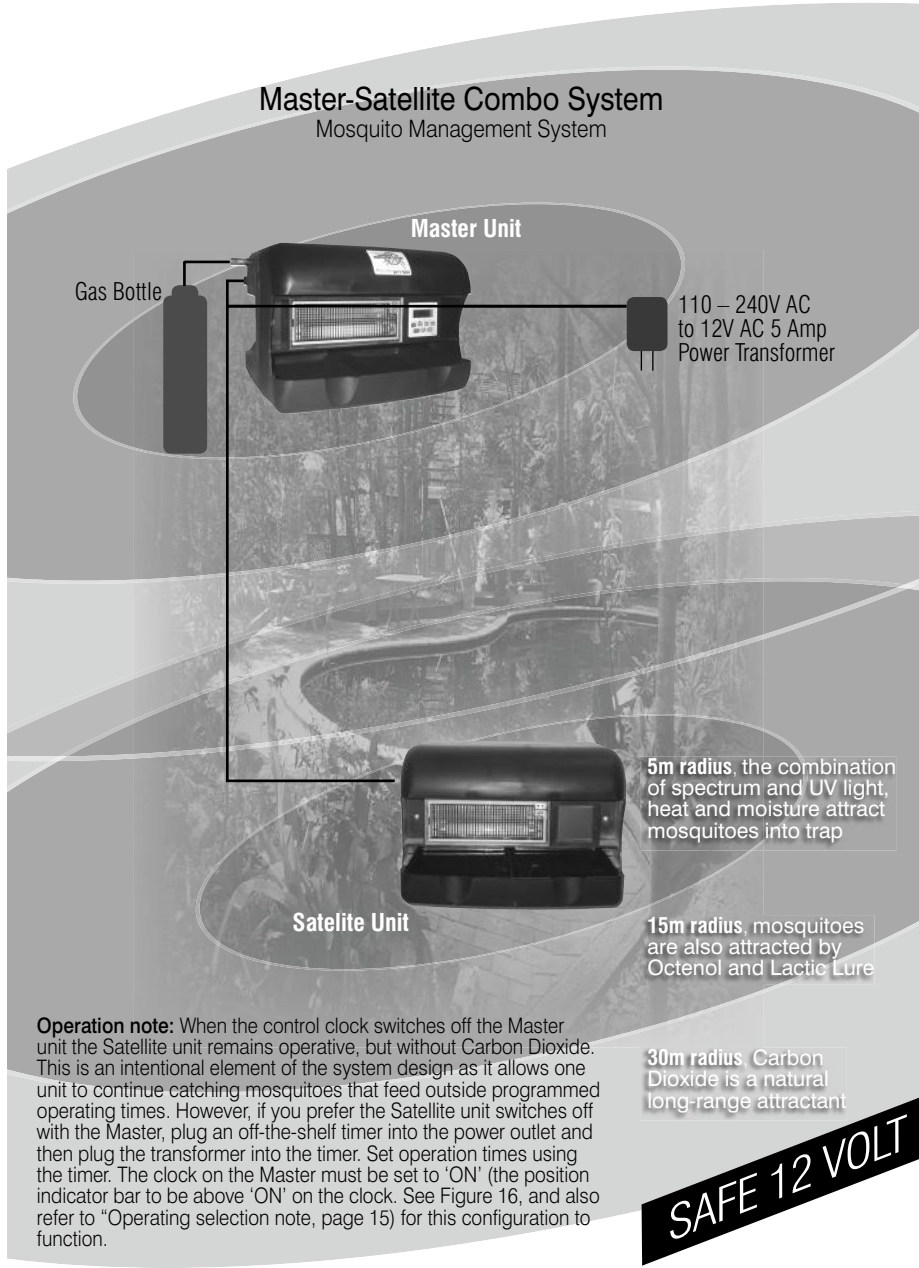
Mosquito Management System



Operation note: The Server and Satellite units do not have control clocks. Operation is manual off/on. If you want the Server-Satellite 4 Point System to operate at set times, you will need to use an off-the-shelf timer for this purpose. Plug the timer into the power outlet and then plug the transformer into the timer.

Master-Satellite Combo System

Mosquito Management System



Master Unit

Gas Bottle

110 – 240V AC
to 12V AC 5 Amp
Power Transformer

5m radius, the combination of spectrum and UV light, heat and moisture attract mosquitoes into trap

Satellite Unit

15m radius, mosquitoes are also attracted by Octenol and Lactic Lure

30m radius, Carbon Dioxide is a natural long-range attractant

Operation note: When the control clock switches off the Master unit the Satellite unit remains operative, but without Carbon Dioxide. This is an intentional element of the system design as it allows one unit to continue catching mosquitoes that feed outside programmed operating times. However, if you prefer the Satellite unit switches off with the Master, plug an off-the-shelf timer into the power outlet and then plug the transformer into the timer. Set operation times using the timer. The clock on the Master must be set to 'ON' (the position indicator bar to be above 'ON' on the clock. See Figure 16, and also refer to "Operating selection note, page 15) for this configuration to function.

SAFE 12 VOLT

2.00 Installing the Gas Cylinder

CAUTION The gas cylinder should be handled and installed according to the gas supplier's instructions posted on the cylinder. Read these instructions first.

CAUTION Gas cylinders are heavy and need to be handled by qualified and properly equipped handlers. We suggest you ask your distributor to supply the gas.

Note: a regulator is not required with the Bantix Worldwide mosquito trap. The gas hose to the trap connects directly to the gas cylinder and the trap safely controls and regulates the flow of CO₂. See Figures 1, 2.

CAUTION The gas cylinder should be held secure to a suitable upright structure. See Figure 3.

Ask your distributor about gas cylinder accessories such as reflective covers, sleeves or boxes to help blend the cylinder into the surroundings.



Figure 1



Figure 2



Figure 3

3.00 Installing the Trap

All trap models can be mounted horizontally to a suitable vertical upright such as fence, wall or column. See Figure 4. The units can also be mounted to any suitable horizontal platform or stand* See Figure 5. Take the weight of the unit (approximately 2.2 kg) into consideration when deciding on the mounting surface and also when selecting the proper fasteners.

To mount to a fence, wall or upright column:

- 3.1 Fix two 5mm screws with 8mm heads to a suitable mounting surface leaving the screws extended approximately 5mm. See Figure 7.
- 3.2 Hang the trap at the rear key holes on the two screws. See Figure 6.
- 3.3 Additionally, you can fit a third screw to secure the unit more permanently.
 - 3.3.1 Remove the tray and you will see another 6mm hole on the rear wall of the casing. See Figure 7.
 - 3.3.2 Insert a self-tapping 6mm screw.

Note: Screws are not provided. When mounting to a concrete or block wall use the appropriate masonry screws.

To mount the trap horizontally on a flat platform or stand:

- 3.4 Drill two 8 mm holes through the platform if not mounting the unit to a purpose built stand. See Figure 8.
- 3.5 Take the tray out of the unit.
- 3.6 Bolt the unit down.
- 3.7 Re-insert the tray.

*Stands are available from your distributor.

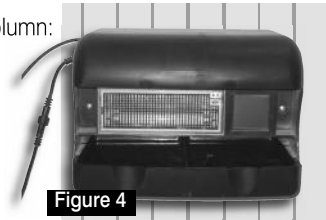


Figure 4



Figure 5

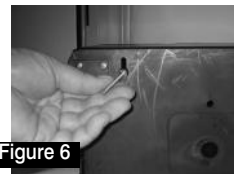


Figure 6

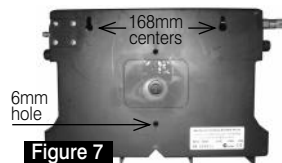


Figure 7

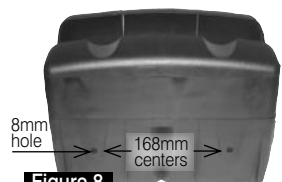


Figure 8

4.00 Connecting Power

4.1 Find a suitable out-of-the-way position for the transformer. It can be mounted to a wall or other structure to keep out of reach of children.

4.2 Plug the transformer into the power point.

4.3 Plug the electrical cord into the transformer.

4.4 Plug other end of the electrical cord into the trap power socket.
See Figure 9.

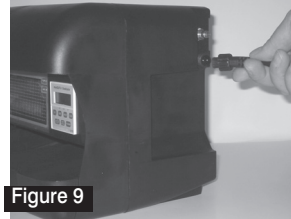


Figure 9

Note: The electrical cord should be placed out of the way so it won't be tripped over, pulled or run over by a lawn mower.

5.00 Connecting the Gas

5.1 Connect the brass nut of the main gas hose on to the gas cylinder using a spanner and tighten. See Figures 10 & 11.

5.2 Connect the other end of the gas hose to the trap. The hose has a snap-lock fitting. Pull snap lock fitting back until the bearings are exposed; push on firmly, then release the fitting. See Figure 12.

5.3 Ensure the gas hose is out of the way and tied up off the ground.

IMPORTANT

Do not turn on gas until tray is full and the clock is programmed.

CAUTION

When disconnecting the gas hose, always turn off main gas hose at the bottle before removing the snap lock from the trap to ensure no gas is in the hose. See Figures 10, 11, 12.



Figure 10



Figure 11

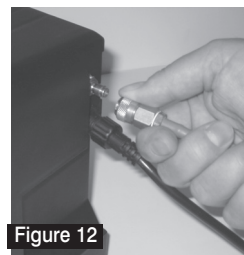


Figure 12

6.00 Setting Control Clock

Recommended operation times

The following are guidelines only. Factors such as level of infestation, whether the mosquitos are daytime or night feeders, or both, and environmental conditions will influence frequency and duration of operation. Talk to your distributor about operation times to best suit your individual needs.

The following guidelines are for traps utilising CO₂ primarily. The Server (non-gas) unit and the Server-Satellite 4 Point System can operate continuously or manually switch off/on.

Start-up – Activate the unit and allow the release of CO₂ for 24 hours. For heavy infestations run the unit continuously for a few days or, in extreme cases, up to seven days.

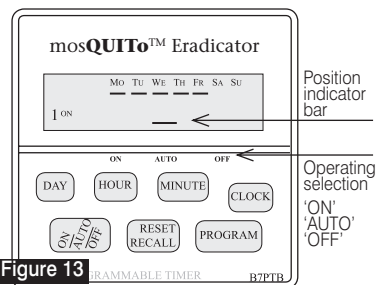
Heavy Follow-up – If you find there is still a high infestation, you may want to keep the unit operating (and releasing gas) for 7 hours during daylight and 7 hours after dusk (14 hours per day) for a few days, then check results.

Medium – If mosquito numbers have reduced, you can reduce operation time to 2 hours at dusk and 1 hour at dawn (3 hours per day)

Maintenance – Once the infestation is under control, operate the unit 1 hour at dusk and 1 hour at dawn (2 hours per day) as a maintenance measure during mosquito season.

Programing Procedure

- 6.1 Plug the electrical cord into the trap and switch on power.
- 6.2 If there are no numbers visible in the control clock's control area, then the internal self-charging clock battery is flat. In this case leave the power on for a couple of hours until the battery clock charges and the clock numbers become visible. It may take up to 3 hours to fully recharge the battery, but once charged, the control clock will operate up to 3 months without being connected to any external power source. See Figure 13.
- 6.3 Once the control clock face figures can be seen, the control clock can be programed.



Setting Control Clock cont.

IMPORTANT

The Master units may use either of 2 two versions of control clock:

One clock version is shown in Figure 13. This clock is identified by the Operating Selections 'ON', 'AUTO', 'OFF' permanently marked on the bottom panel. This clock also uses a Position Indicator Bar as shown in Figure 13 and uses 12 hour AM/PM time. It has six programs available.

The second version of control clock does not have the Operating Selections permanently marked on the clock face, nor does it use a Position Indicator Bar. As you cycle through the selection process, 'MANUAL ON', 'AUTO' and 'MANUAL OFF' will appear in the display.

Note: When switched to 'MANUAL OFF' it may take up to 15 seconds for OFF to activate. Please wait for this delayed response before switching to 'AUTO.' This clock uses either 24 hour time or 12 hour time. Hold the CLOCK button and press PROGRAM to switch between time modes. The clock programming procedure is written mainly for 12 hour time so you may find it easier to follow suit. When 24 hour time is selected, "AM" and "PM" will not appear in the display. When 12 hour time is selected, the clock will show 0:00 for 12AM. Eight programs are available.

To set the clock time

6.4 **To set day:** hold down the CLOCK button while pressing the DAY button until the correct day appears at the top of the display.

6.5 **To set time:** hold down the CLOCK button while pressing the HOUR button until the correct hour appears, making sure AM or PM (on the left hand side of the display) is correct. Then repeat for the MINUTE button.

Release the CLOCK button and the correct day and time should be set. See Figure 14.

Note: This is the only function where two buttons need to be pressed at the same time.

To set the program on/off times

6.6 Set on/off times by pressing the PROGRAM button once (the number "1-ON" will appear with a blank time). Set program 1 to come on at the desired time by:

6.7 Push the DAY button to select the day or days you require the trap to operate. If you want it to operate at the same time each day, make sure all days appear across the top: ie Mo, Tu, We, Th, Fr, Sa, Su. If they do not, keep pressing the DAY button until they do. You can set for any of these individual days or group of days.

6.8 Press the HOUR button until the hour you require appears in the display, making sure the AM or PM is correct, then press the MINUTE button until the minute of that hour required appears (eg 4.30pm). Then press the PROGRAM button (the number "1-OFF" will appear with a blank time). To set PROGRAM 1 to go off at the desired time, press the HOUR button again, then the MINUTE button, repeating the above procedure for the time you want the program to finish (eg 7 pm).

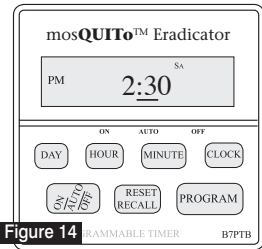


Figure 14 RAMMABLE TIMER B7PTB

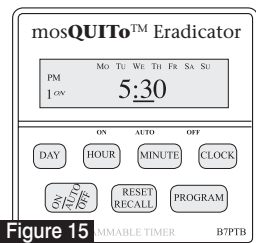


Figure 15 RAMMABLE TIMER B7PTB

Setting Control Clock cont.

- 6.9 Press PROGRAM button to bring up PROGRAM 2-ON etc. Repeat this process for the number of programs you want set during the 24 hour period.
- 6.10 Leave the unused program times blank. eg: If using 3 different ON/OFF programs, number "4-ON", "4-OFF", "5-ON", "5-OFF", "6-ON", "6-OFF" would be blank. If they do have a time showing, press the RESET/RECALL button to cancel. See Figure 15.
- 6.11 You can press the PROGRAM button to cycle through the times set to ensure they are as required, making changes as necessary.
- 6.12 Once the on/off times are set to your satisfaction, press the CLOCK button to return to the real time clock display.

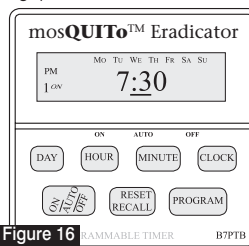


Figure 16

Operating selection

- 6.13 Press the ON-AUTO-OFF button to move the position indicator across the screen until the bar at the bottom of the display appears above "ON" position to test the operation of the trap*.
- 6.14 When satisfied, set to "AUTO" by always moving from right to centre: ie "OFF" position to "AUTO" position (if it is on the "ON" position, press 3 times so it returns via the "OFF" position before reaching the "AUTO" position). See Figure 16.
- 6.15 The trap can be programmed to operate manually ("ON") or on preset on/off times ("AUTO").
- 6.16 The RESET/RECALL button can be used to reset or change a particular ON/OFF entry. When 4 dashes appear the setting can be changed. When you recall an entry, it will return to the values that were set before you performed a reset.

NOTES:

- When the ON position is selected the trap will operate continuously.
- When the AUTO position is selected the trap will operate only during programed on/off times.
- When the OFF button is selected the trap will not operate at all.

7.00 Octenol

Peel paper off 1 side of the double sided tape and stick the tape to the back side (side without the holes) of the cartridge. Stick the cartridge on the light lens as shown in Figure 18, and peel off cartridge label to expose the vent holes. The holes must face outwards.

8.00 Lactic Solution

Fill the collection tray with Lactic solution (Lactic lure + water). The Lactic solution acts as an attractant and also serves to drown the captured mosquitoes and midges. Mix 1 part Lactic lure to 5 parts water. The tray holds 2 litres so mix approx. 300ml of Lactic lure to 1770ml of water. Instead of measuring out the desired amount, 300ml of Lactic lure will cover the base of the tray to about 5mm above the tray ribs. Then top up with water. See page 16 for information on keeping the collection tray topped up with Lactic solution.

Maintenance & Servicing

CAUTION

Servicing to be undertaken only by qualified service personnel. The following tasks are the only exception and are safe for the user to perform. Your distributor can also offer a service program.

CAUTION

Disconnect the power and shut off the gas supply before performing any maintenance or servicing.

1.00 To refill & clean the collection tray – Lactic solution

NOTE

The Lactic lure is nonhazardous. No special storage requirements are needed. However, it should be handled with care and kept out of reach of children.

IMPORTANT

Please pay attention to the safety precautions and first aid instructions on the Lactic lure container. Take good care of the container so this information can be referred to at any time. See directions for use on the container.

Procedure to clean and refill the tray

Step 1: As a general rule, simply top up the tray with water when necessary over a period of three weeks operation. If the tray runs dry during this 3 week period, the remaining Lactic lure will appear as a scum on the bottom of the tray.

Step 2: Every three weeks the insect remains should be disposed of and the tray cleaned. Carefully take the tray out of the trap avoiding spilling any remaining solution on the skin. To avoid wasting solution strain it into a bucket and throw away the mosquito remains, and reuse solution. Clean the tray under a hose or use a brush with detergent. If you wish, residual Lactic solution can be safely discarded on the ground or lawn, away from the house, entertaining areas and pets.

Step 3: Place the tray part way back into the trap housing leaving enough opening to easily add the Lactic solution. To achieve the 1:5 mix Lactic to water ratio, fill to 5mm above the level of tray internal ridges with Lactic lure and top up the tray with water.

See Figure 17 .



Figure 17

2.00 Replacing the Octenol Cartridge

Notes: If heavy catches of mosquitoes are occurring, this procedure may need to be repeated more frequently. Substitutes for Lactic lure could adversely affect results. Supplies of Lactic lure can be obtained from your distributor.

General: For best results, replace the cartridge according to directions on the package. Refer to 7.00 Octenol, page 15.

To replace the Octenol cartridge

Step 1. Remove the spent cartridge from the trap and dispose of as directed.

Step 2: Follow the manufacturer's directions for use for 'Electronic Insect Killers' (See Octenol Mosquito Attractant packaging), but reposition as per instructions in this manual. Figure 18.

Step 3. Press the new cartridge firmly in position on the lens as shown in Figure 18.

Octenol cartridges are available from your distributor.

IMPORTANT

First aid instructions are printed on the Octenol cartridge packaging. Keep the package in an accessible place.



Figure 18

Place the Octenol cartridge at the top right hand corner of the light lens

3.00 UV Tube placement

General

The Ultraviolet (UV) light tube will normally function effectively for 3,000 lamp hours. It will then need to be replaced in order to provide adequate UV light to attract female mosquitoes.

IMPORTANT

Only approved UV tubes should be used. Bantix Worldwide supplied tubes are specially designed to attract mosquitoes, but are less attractive to harmless insects, such as moths.

To replace the UV tube:

Step 1. Remove the tray to provide working room.

Step 2. Use a small, flat screw driver to pry open the lens from the bottom side, leaving the lens attached by its wiring. See Figures 19, 20.

Step 3. Turn the tube and pull out.

Step 4. Push replacement tube into holders and lock in by turning. Note: Push the tube holders inwards to ensure the tube is firmly held.

Step 5. Put lens back in place by placing top in first, then snapping in bottom.

4.00 Carbon Dioxide (CO₂)

To exchange the CO₂ cylinder follow instructions on the gas bottle.

REMINDERS

Step 1. Turn off gas at the bottle.

Step 2. Unscrew the main gas hose at the cylinder. See Figures 10 & 11.

CAUTION

Always release all the gas pressure from the hose before releasing the snap lock on the trap. See Figure 12.

When the CO₂ runs out, follow the installation procedure on page 12 to set up the new gas bottle.



Figure 19



Figure 20



Mosquito Management System

Troubleshooting

| SYMPTOM | POSSIBLE CAUSE | CORRECTIVE ACTION |
|---|--|--|
| I have a BX3S Server (non-gas) unit. It is turned on, the UV tube and prism light are operating, but it is not catching mosquitoes | Out of season, colder months. | Mosquitoes typically breed during the warmer months. |
| | Operation times do not coincide with mosquito feeding times. | Adjust operation times to match mosquito feeding times. Ask your distributor for specific details. |
| | The present position of the trap may not be the best. | Review the guidelines on selecting the best position for the trap and move it accordingly. |
| | No Lactic solution in the tray. | Fill the tray with Lactic solution as described under Maintenance & Service. |
| | Fan not working. | Place hand under front hood of unit. If you cannot feel downward air movement, contact your distributor. |
| | No Octenol. | Replace Octenol cartridge |
| I have had my Master-Satellite Combo System operating for a few months, but lately it is not catching many mosquitoes. It is mid summer and there are lots of mosquitoes. | CO ₂ cylinder empty | Turn the gas off at the bottle. Disconnect the main gas hose from the gas cylinder (See Figure 2). Carefully turn on the gas at the cylinder. If the gas is released under pressure, this indicates sufficient gas remains. If there is little or no gas flow, then the cylinder is empty. |
| | The present trap positions may not be ideal | Review the guidelines on selecting the best position for the traps and resite, if necessary. |
| | No Lactic solution. | Fill the tray with Lactic solution. |
| | Fan not working. | Place hand under front hood of unit. If you cannot feel downward air movement, contact your distributor. |
| | No Octenol. | Replace Octenol cartridge as directed. |
| | UV tube has blown. | Replace as directed. |



Frequently asked questions

Q. When I asked my gas supplier for a cylinder of CO₂ I was told I had to buy a regulator. Is this so?

A. No. A regulator is not required with the Mosquito Management System. The main gas hose to the trap connects directly to the gas cylinder and the Master unit safely controls and regulates the flow of CO₂.

Q. Is the Octenol safe?

A. Yes. Octenol, when released into air, is not harmful to humans or to the environment.

There is the potential for toxicity, if ingested. Therefore, the amount of Octenol accessible to children is evaluated for each product before an Octenol containing product is registered by the United States of America Environmental Protection Agency (EPA). Our product is produced by an USEPA registered end-use manufacturer and is approved for use in mosquito traps.

Q. How much coverage area will the Master-Satellite Combo System provide?

A. As a guide, it should adequately cover the normal sized domestic front and back yard.

The same system will service 300 square meters, if the land is relatively flat without obstacles such as buildings, trees and bushes etc. Please note that environmental conditions (eg, air temperature, wind), placement of the trap or other factors are also likely to determine effectiveness.

Q. How long can I expect my traps to last?

A. Under normal use with regular maintenance and servicing the life expectancy of the units is 5-7 years.

Q. After installing the Master-Satellite Combo System, how long will it take to rid my backyard of mosquitoes?

A. We do not guarantee that you will experience a totally mosquito-free backyard. However, a number of factors will influence how quickly you can significantly reduce your mosquito problem. The number of mosquitoes in the yard, placement of the unit, how long the unit operates each day, seasonal and environmental conditions and the upkeep of trap attractants will affect performance. A primary aim of the trap is to impact the mosquito breeding cycle in your local backyard environment. Breeding cycles vary from 2 to 6 weeks depending on the mosquito species. Regularly check the collection tray to see how many mosquitoes you are catching. You can expect the numbers to taper off over the weeks as numbers of female mosquitoes are reduced. Also take note of how many bites you are experiencing when in the yard. Under ideal operation, you should see significant results within a month.

Q. Does it work in the rain or in high winds?

A. The unit should not be left turned on in the rain in order to prevent electrical malfunction. After rain, give the unit sufficient time to dry out before switching on. Also mosquitoes and midges do not feed during rain periods or when there are strong winds. So if you are experiencing heavy rain or the forecast is for a several days of high winds, you should switch off the unit until the weather has cleared.



Gas Usage Guide

Gas Release Rates

| PER HOUR | PER DAY |
|------------------|-----------------------|
| Approx 60 grams* | 1,440 grams (1.44/kg) |

| OPERATION TIME PER DAY | GAS USAGE | EXPECTED LIFE OF 9 KG BOTTLE (Net gas weight) | EXPECTED LIFE OF 22 KG BOTTLE (Net gas weight) | EXPECTED LIFE OF 31 KG BOTTLE (Net gas weight) |
|------------------------|-------------|---|--|--|
| 2 Hours | 120 grams | Approx. 75 days/ 10wks. | Approx. 183 days/ 26wks. | Approx. 258 days/36wks. |
| 3 Hours | 180 grams | Approx. 50 days/7wks. | Approx. 122days/17wks. | Approx. 172 days/24wks. |
| 7 Hours | 420 grams | Approx. 21 days/3wks. | Approx. 52 days/7wks. | Approx. 73 days/10wks. |
| 14 Hours | 840 grams | Approx. 10 days | Approx. 26 days/3wks. | Approx. 36 days/5wks. |
| 24 Hours | 1,440 grams | Approx. 6 days | Approx. 15 days/2wks. | Approx. 21 days/3wks. |

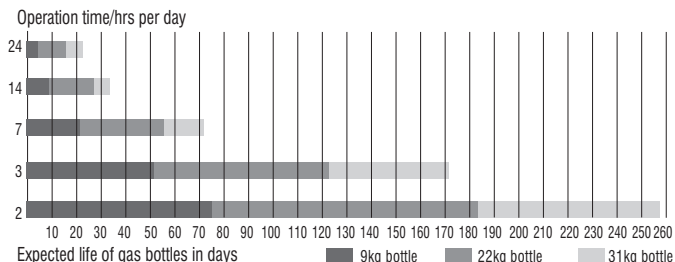
IMPORTANT

*The release rate of Carbon Dioxide is only an approximate. Factors, including changes in temperature, will affect the rate of gas release. **Therefore, the usage rates and calculations should be used only as a general guideline.**

Note: Gas bottle sizes are based on supply from *Air Liquide*.

CAUTION

Gas bottle weights are gas net weights and do not include the weight of the bottle. Handle bottles with care.





Warranty

The Bantix Worldwide Mosquito Management System is guaranteed against defects in materials and/or workmanship under normal conditions of use for 12 months from the date of purchase.

If any part of this product, excepting the ultraviolet tube and consumables such as the Octenol cartridge, Lactic lure Acid attractant and CO₂, become defective within the warranty period, Bantix Worldwide Pty Ltd will replace the unit or, at its option, repair or replace the defective part(s).

Except as otherwise provided by law, this guarantee becomes invalid if, in the opinion of the Company the product has been misused, abused, damaged in transit, incorrectly installed or connected to an electrical supply not corresponding with the product specification.

Please note this product warranty is limited to and conditional upon:

- The defective parts or unit being securely packed in a carton for return to Bantix Worldwide Pty Ltd or approved agent.
- The owner/user of the unit assuming the cost of returning the unit or any part claimed to be defective.

Note: Please also retain your receipt to show proof of purchase in the event you need to make a claim on the warranty.

For your records

For convenience and easy reference, record the serial number(s) of your Mosquito trap(s) below.

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Product Warranty

Please return upon purchase to:

Bantix Worldwide Pty Ltd
39 Taree St., Burleigh Heads, QLD, Australia 4220

1. Model:

2. Serial No.(s)

3. Date of Purchase:

4. Owner's Name

5. Address

 Postcode

6. Phone

7. Fax

8. Email

9. Purchased from

10. Purchase use: Residential Commercial

11. Main reason for purchase:

- a) Lifestyle (reclaiming back yard)
- b) Protection against disease
- c) Other (please specify)

PLACE
STAMP
HERE

Bantix Worldwide Pty Ltd
39 Taree St., Burleigh Heads, QLD,
Australia 4220