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TAKE BACK THE GREAT OUTDOORS
BITE SHIELD™ MOSQUITO TRAP
GUARDIAN CORDLESS

MK14 Guardian Cordless Mosquito Trap • REG. NO. 29240 PCP Act
See enclosed User Manual for additional Precautions, First Aid, Directions for Use and Storage and Disposal instructions.

Bite Shield® Mosquito Lure by Koolatron • REG. NO. 29217 PCP Act
See enclosed Label for additional Precautions, First Aid, Directions for Use and Storage and Disposal instructions.

TAKE BACK THE GREAT OUTDOORS
BITE SHIELD™ MOSQUITO TRAP

GUARDIAN CORDLESS

USES PROVEN MOSQUITO ATTRACTANTS IN ONE UNIT!

- Easy assembly, no tools required
- Cordless unit
- Weatherproof design
- Light weight with wheels
- Push-button starter
- One year limited warranty
- Uses propane tank (not included)

DOMESTIC

KEEP OUT OF REACH OF CHILDREN

READ THE LABEL AND ENCLOSED INSTRUCTIONS BEFORE USING

REG. NO. 29240 P.C.P. ACT

Box Contents :

- 1- BiteShield Cordless Guardian, MK-14
- 1- BiteShield Mosquito Lure by Koolatron

GUARANTEE

1-Octen-3-ol.....3.74g/lure

REG. NO. 29217 P.C.P. ACT

*CAUTION – SKIN IRRITANT

WARNING – EYE IRRITANT

DANGER



POISON

KOOLATRON INC.

1-800-265-8456

139 Copernicus Blvd.

Brantford, ON N3P 1N4

www.koolatron.com

U.S.A., 4330 Commerce Drive, Batavia, NY 14020-4102

**TAKE BACK THE GREAT OUTDOORS
BITE SHIELD™ MOSQUITO TRAP**

The BiteShield Guardian Mosquito Trap™ is on duty 24/7 and requires very little up-keep.

How the BITESHIELD CORDLESS GUARDIAN, MK-14, mosquito trap works
The trap utilizes the documented attractiveness of CO₂, moisture, body temperature (thermal imaging), color, and airflow in an effective design that captures and kills mosquitoes.

The BiteShield Guardian Mosquito Trap™ uses this traditional trapping approach, combined with the latest in research, to turn the female mosquitoes natural hunting techniques toward seeking out the trap and facilitating capture in a product that private home owners can use.

DIRECTIONS FOR USE INSIDE

INCLUDES

(1) BITESHIELD CORDLESS GUARDIAN, MK-14

(1) BITESHIELD MOSQUITO LURE BY KOOLATRON

GUARANTEE: 1-Octen-3-ol.....3.74 g/lure REG. NO. 29217 P.C.P. ACT

OCTENOL

PRECAUTIONS - KEEP OUT OF REACH OF CHILDREN. Fatal or poisonous if swallowed. May irritate skin. Avoid contact with skin. Causes eye irritation. **DO NOT** get in eyes. **TOXICOLOGICAL INFORMATION** - Treat symptomatically.

FIRST AID

IF SWALLOWED: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

IF DIRECTLY INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth to mouth, if possible. Call a poison control centre or doctor for further treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

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MK14G
MADE IN CANADA

Take back the great outdoors
Bite Shield™ Mosquito Trap
Cordless Guardian

DOMESTIC
REG NO. 29240 P.C.P. ACT
READ THE LABEL AND ENCLOSED INSTRUCTIONS BEFORE USING

KEEP OUT OF REACH OF CHILDREN

MK14
OWNER'S MANUAL

KOOLATRON INC.
1-800-265-8456
139 Copernicus Blvd.
Brantford, ON N3P 1N4
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U.S.A., 4330 Commerce Drive, Batavia, NY 14020-4102

HOW IT WORKS

The BiteShield Cordless Guardian, MK-14 utilizes the documented attractiveness of carbon dioxide (CO₂), moisture, body temperature (thermal imaging), color, shape and airflow in an effective design that captures and kills mosquitoes. Similar traps have been in use for years by universities, state monitoring programs and researchers around the world. The BiteShield Cordless Guardian, MK-14 uses this traditional trapping approach, combined with the latest in research, to turn the female mosquito's natural hunting techniques toward seeking out the trap and thus, facilitating their capture in a product that private home owners can use. Another major feature of MK14 is that it is cordless – that is, no electrical or extension cords to deal with! The unit is powered by a patented internal power generated mechanism that uses propane fuel to operate the fan and LEDs. Thus, MK14 eliminates a major safety hazard that users might face while operating such units outdoors. This is how the female mosquito reacts to the trap: At a fairly long distance (up to 12.2m/40ft. away), it senses the CO₂ and moisture coming from the unit's burner. This tells the mosquito that there is a "breathing" creature around. It flies towards the source of CO₂ and moisture. As it travels, at a range of approx. 4.6m/15ft., it starts to sense temperature similar to that of a living creature (thermal imaging). The unique design of the MK-14 has two different thermal-imaging systems (patents pending): a) static thermal imaging, where in the body of the trap, there is warmth at the top surfaces of the "neck" similar to that of living beings. This temperature is constant and generates consistent heat waves that attract the mosquitoes closer to trap. b) Spot thermal imaging: The black dome-like surface of the trap is warmed up at different points to be similar to living being's temperatures. Live beings do not have a consistent temperature across the body. This sends a message to the mosquitoes saying that this variation of temperatures is similar to a live animal. The top of this area consists of a vacuum air flow caused by the internal fan which pulls the mosquitoes into the trap thanks to the unique design of the internal components of the trap. The vacuum airflow goes straight into the receptacle with grilled openings depositing inside of it all the mosquitoes that were attracted, where they stay trapped until they dehydrate and ultimately die.

WHERE TO PLACE

Many species of mosquitoes have an adult life span that lasts about two weeks. Approximately 3,000 species of mosquitoes have been identified world-wide. Both male and female mosquitoes feed on plant nectar, but only the female requires a blood meal. The blood feeding is needed for each batch of eggs the female lays, typically feeding once every 3-4 days. If the mosquito is not disturbed, during the biting process, a blood feeding usually lasts about 90 seconds and the amount of blood is 1-1/2 times its body weight. A single female mosquito may lay thousands of eggs, during her lifetime. The female mosquito is attracted to a host by carbon dioxide (CO₂), temperature, scent, color, shape, movement

and for some species, even sound. The female mosquito is usually most active between 10°C/50°F and 35°C/95°F while in calm or light breeze conditions. Mosquitoes tend to travel up-wind when seeking a blood feeding. The placement of the Mosquito Trap will greatly affect the success of the unit's ability to capture mosquitoes. The largest amount of mosquitoes will be captured by positioning the mosquito trap 9.1m/30ft. to 12.2m/40ft. away from the location you want to protect, in the normal down-wind direction towards where mosquitoes are living (trees, bushes and water). To find the best starting point in your yard for trap placement, walk about 3-4.6m/10-15ft away from the deck (patio, porch) area that you want to primarily protect. Light a smoky incense and watch which direction the smoke drifts while standing there. Next, move about 1.5-2.4m/5-8ft to the left of the original spot and repeat. Then 1.5-2.4m/5-8ft. to the right of the original spot and repeat. This is all to help you identify the normal airflow pattern. Repeat this procedure at your deck and see if the air movement is in the same direction. You should find a common area of your yard that the air moves toward. This is where you want to place the trap, ideally at a distance of 12.2-15.2m/40-50ft. away from the deck area. Placing the trap close to shrubs, bushes, or other vegetation can help to increase mosquito capture. Research has demonstrated plants like mint and lemon grass can decrease capture while bushy and leafy plants without strong odor increase capture. **WARNING:** Minimum clearance 61cm/24" to walls or ceilings is required.

WHAT TO EXPECT

To achieve the best results from your BiteShield Cordless Guardian, MK-14, you must leave it in operation full-time during the mosquito season. The trap is not meant for occasional use, such as during an outdoor party.

WARNING

This product is fueled by propane gas, which is invisible, odorless and highly flammable. An odorant is normally added by the manufacturer, which has a “rotten egg” smell to it. This additive can fade over time, so leaking gas is not always detectable by smell alone.

Propane gas is heavier than air and leaking propane will sink to the lowest possible level. It can be ignited by a spark or flame of any kind and from several feet away from a leak.

Do not use a propane tank with a capacity larger than 20lb (9.07kg). The propane tank must be provided with a shut-off valve, arranged for vapor withdrawal and include a collar to protect the tank’s valve.

Propane gas should be stored or used in compliance with local ordinances or codes with ANSI/NFPA 58. Make sure the propane gas control valve is turned off when not in use.

The propane tank must always be stored outdoors, in a well ventilated area and out of the reach of children. Never store propane in an enclosed space (house, garage, etc.).

The pressure regulator and hose assembly supplied with the BiteShield Cordless Guardian, MK-14 must be used for the connection to the propane tank. The maximum inlet gas supply is 1 less than 30 SCFH (0,85 cm³/h). Replacement pressure regulator and hose assemblies must be provided by Koolatron, Inc.

The BiteShield Cordless Guardian, MK-14 must be used outdoors and only in a well ventilated area. If it is stored indoors, disconnect the propane tank and properly store it outdoors. The disconnected tank must have a threaded valve plug tightly installed.

FOR YOUR SAFETY

1. If you smell propane:
 - a. Shut off gas valve on tank.
 - b. Extinguish any open flame.
 - c. If odor continues, immediately call your gas supplier.
2. Do not store or use gasoline or any other flammable vapors and liquids in the vicinity of the mosquito trap or any other appliance.

3. The installation must conform with local codes or, in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1-1998 for US and with the CANI-B149 for Canada.

PARTS LIST

Look carefully between all packaging internal dividers for parts.

PARTS

- (A) Main Unit
- (B) Catch Lid
- (C) Support Pole Assembly
- (D) Base with Wheels
- (E) Mosquito Catch
- (F) Regulator with Hose
- (G) Propane Tank (not included)
- (H) Octenol Attractant
- (I) Locking Pin
- (J) "C" size batteries required (4 required, not included)

INSTRUCTIONS FOR OCTENOL MOSQUITO ATTRACTANT

1. Cut foil pack open using scissors. See Illustration A.
2. Remove Octenol cartridge from foil pack.
3. Connect "S" hook to Octenol cartridge. See Illustration B.
4. Connect other side of "S" hook to trap. See Illustration C. Put larger end of "S" Hook through hole of the Octenol Cartridge
5. Wash hands thoroughly.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

Fatal or poisonous if swallowed. May irritate skin. Avoid contact with skin Causes eye irritation. DO NOT get in eyes.

TOXICOLOGICAL INFORMATION Treat symptomatically.

Please see package for cautions and instructions.

To order more Octenol cartridges please visit a retailer near you or visit us at:

www.koolatron.com

ASSEMBLY

Step 1: Support Pole assembly.

Assemble the bottom pole and the upper pole to form the Support Pole. Press the pins on the side of the bottom pole and insert them into the holes in the upper pole. Make sure that BOTH pins pop up through the holes in the upper pole.

Step 2: Support Pole connection to the Base.

Place the base on a flat surface. Insert the Support Pole with the slotted side down as shown. Press in firmly. Ensure the pole has been inserted all the way down and turn base sideways. Insert the locking pin through the hole at the bottom until it comes out on the other side as shown. Then, insert the safety pin through the pin's hole as shown.

Step 3: Support Pole connection to the Main Unit

Attach the Main Unit to the top of the Support Pole as shown. Press the pins on the sides of the Support Pole to insert it into the hole in the Main Unit. Make sure that one of the pins pops up through the hole at the rear of the Main Unit.

Step 4: Battery Installation

Open the battery compartment by pressing the tab at the right side of the battery cover. Let the battery cover hang from the unit as shown and insert four new "C" batteries making sure that the positive and negative ends of the batteries are arranged as in the picture. Close the battery pack by tilting the cover upwards and to the right until it snaps in place.

ASSEMBLY (cont...)

Step 5: Placement of the Propane Tank.

Do not use a Propane Tank larger than 9.07kg/20lbs Place a full tank of propane on the base as shown. Screw the free end of the regulator hose onto the propane tank valve.

WARNING: Follow the safety information listed on the tank.

STARTING

Step 1

Open the gas valve on the tank to the full open position by turning it counterclockwise until the knob stops rotating.

Step 2

Press the START switch on the side of the main body. This activates the heater and the vacuum fan. You should see a red light through the window.

Step3

Press and hold the valve safety (silver) button, while looking through the Window into the main unit.

Step 4

Press/click the (red) igniter button repeatedly (located on the underside of the main unit) until a blue flame appears directly in front of you, approximately at the top center inside the unit. If the flame doesn't appear the first time, keep clicking the Igniter button several times while keeping pressed the valve safety button until you see a flame, up to 10 seconds maximum trial period.

STARTING (cont...)

IMPORTANT

- Once the flame starts, stop pressing the red igniter button but continue to hold the valve (silver) safety button in for 30 additional seconds after the initial ignition. Then release valve safety button.
- Your MK-14 is equipped with a Safety Tilt Switch, which shuts off the gas flow if the unit is tilted more than 10° from horizontal ground. Make sure your unit is positioned in leveled ground as much as possible. Otherwise, you won't be able to get the unit to operate continuously.

WARNING

If the unit does not light within approximately 10 seconds, release the gas button and always wait 60 seconds between lighting attempts to allow un-burnt gas to dissipate. Repeat steps 2 through 4 if the burner goes out. There is a safety device that must warm up enough to allow gas to the burner after the safety button is released. (No longer pushed in). Note - When installing a new or refilled propane tank, it may take up to 30 seconds for the gas to reach the burner.

Step 5

After the flame is established and you have released all the buttons, watch the trap for another 3-5 minutes until you see the blue lights emitting from under the top cover. This indicates that the unit is in standard operating mode now. Make sure that the blue lights stay on for at least 2-3 minutes before you leave the trap unattended. This would confirm that the unit is functioning properly. If you don't see blue lights on, turn off the gas tank valve, wait 60 seconds and re-start following steps 1 to 5. If you still don't see the blue light, contact an authorized service personnel. Do not attempt to disassemble and/or repair the unit yourself.

Step 6

Leave the unit on. It will operate for 4 to 6 weeks continuously capturing mosquitoes on a single tank of propane depending on environmental conditions.

SHUTTING OFF

Step 1

Close the gas valve on the propane tank by turning it clockwise.

Step 2

Look through the window on the front of the Main Unit and verify that the flame has gone out. It may take up to 30 seconds to burn the gas in the line and for the flame to go out.

MAINTENANCE

1. Check the catch on a regular basis. The catch cup is located under the catch lid. Lift the corner tabs of the lid to open and lift the catch cup out. When placing back the Top Lid ensure the orientation is as shown in the picture and make sure that it snaps onto the Top Lid opening ALL AROUND. Failure to place the lid properly will reduce the suction of the unit and the actual mosquito catch. Start by checking the trap twice a week and adjust according to the catch. Use only clean water to rinse the catch, do not use any chemical or soap as the fragrance may repel mosquitoes from the trap. In many cases, the large amount of airflow through the catch, grinds captured mosquitoes against the metal mesh, breaking them into small pieces, which are then blown through the screen.
2. Refill the propane tank, as necessary when using continuously. Turn off the gas valve and disconnect the regulator hose from the tank. Replace the tank and reconnect the hose.
3. Keep the area around the BiteShield Cordless Guardian, MK-14 clear and free from combustible materials, gasoline, and any other flammable vapors and liquids.
4. Keep the propane tank enclosure area free and clear from debris.
5. Clean the unit outside surface with a mild detergent and a damp cloth. Do not spray with or immerse any part in water.
6. Replacement parts (Regulator with hose, Catch) are available from Koolatron, Inc.
7. Store the unit in a cool dry place when not in use and AWAY FROM ANY CHEMICALS.

TROUBLESHOOTING

Before calling Customer Service, please refer to this chart of possible solutions to the problem.

PROBLEM	POSSIBLE CAUSE	SOLUTION	REFER TO PAGE
Smell of gas coming from unit before starting. DO NOT START THE UNIT WHEN THERE IS GAS SMELL AROUND THE UNIT!!!	<ul style="list-style-type: none"> Regulator hose not connected properly to Tank The Regulator's connector is defective 	<ul style="list-style-type: none"> Shut off Tanks' valve completely. Remove hose and re-connect making sure the threaded connector goes in easy and can be tightened well. If the threading doesn't go in easy, either: The Tank thread is damaged - Replace tank Call Customer Service 	6 & 8
Red light doesn't turn on when pressing and releasing the power button	<ul style="list-style-type: none"> No batteries in the battery compartment Old batteries installed Batteries are placed backwards Other 	<ul style="list-style-type: none"> Check that batteries are installed in the battery compartment Ensure that you have good "fresh" batteries installed Make sure that the positive and negative ends of the batteries are properly arranged Call Customer service 	5
Red light goes on but flame does not start	<ul style="list-style-type: none"> Gas tank empty Gas tank not connected to unit Gas tank valve off Not holding pressed the valve (silver) safety button while pressing the red igniter button Unit is tilted Other 	<ul style="list-style-type: none"> Replace tank Connect the hose of the unit to the tank Make sure that the valve is open as explained in this manual Make sure the valve (silver) safety button is kept pushed in while pressing repeatedly the red igniter button Place unit on level surface. Call Customer service 	6 & 7
Red light stays on, blue flame is on but flame goes off after releasing the Valve (silver) safety button	<ul style="list-style-type: none"> The valve (silver) safety button is released before the safety mechanism warms up enough to keep the gas flow open The unit is tilted or not in a horizontal level ground Other 	<ul style="list-style-type: none"> Wait 60 seconds and repeat start up procedures and make sure you wait at least 30 seconds before releasing the Valve (silver) safety button Your MK-14 has a safety switch that shuts off the gas glow if the unit is not horizontal or within 10° tilt from level ground. Look for more level ground where to place the unit and repeat Start Up procedure Call Customer service 	6 & 7
Red light stays on, blue flame stays on, but blue lights do not go on after 5 minutes	<ul style="list-style-type: none"> Other 	<ul style="list-style-type: none"> Turn off the unit and Call Customer Service 	12
Low mosquito catch.	<ul style="list-style-type: none"> Mosquito population is low due to draught conditions or too cold or hot weather Mosquitoes dry off and break into tiny pieces going through catch and blown away from unit Top Lid not properly closed Catch cover placed backwards 	<ul style="list-style-type: none"> Keep unit running through all of the season and keep monitoring catch. One teaspoon of mosquitoes is about 800 female mosquitoes caught and which will not hatch eggs for the season. This lowers your mosquito overall mosquito population and is normal operation. Keep unit running. Ensure that the Top Lid is properly assembled to avoid vacuum loss in the system. Make sure you follow the instructions in this manual to install the Catch Cover properly 	8

PRECAUTIONS

1. Do not insert foreign objects into this product.
2. The BiteShield Cordless Guardian, MK-14 is for OUTDOOR USE ONLY.
3. DO NOT clean the unit by spraying water or by immersing in water.
4. All repairs to the unit must be performed only by qualified service personnel.
5. Read and follow all instructions affixed to the propane tank.
6. Young children should be carefully supervised when they are in the area of the BiteShield Cordless Guardian, MK-14.
7. Clothing or other flammable materials should not be hung from the unit or placed on or near it.
8. Any guard or other protective device removed for servicing the BiteShield Cordless Guardian, MK-14 must be replaced prior to operating.
9. It is imperative that the compartment, burner and circulating air passage ways of the BiteShield Cordless Guardian, MK-14 be kept clean at all times.
10. A maximum of a 9.07kg/20lbs propane tank must be used with the BiteShield Cordless Guardian, MK-14.
11. The propane tank must be provided with a shutoff valve terminating in a propane supply tank valve outlet specified for Connection No. 791 in the Standard for Compressed Gas Cylinder Valve Outlet and Inlet Connections, ANSI/CGA-V-1-latest edition (Any standard 20lb/9.07kg Propane tank manufactured in the USA after 1999).
12. The propane tank supply system must be arranged for vapor withdrawal and the tank must include a collar to protect the tank valve.
13. The propane tank used shall be constructed and marked in accordance with the specifications for propane tanks of the U.S. Department of Transportation (DOT).
14. The BiteShield Cordless Guardian, MK-14 must be used outdoors and only in a well ventilated space and shall not be used in a building, garage or any other enclosed area.
15. The BiteShield Cordless Guardian, MK-14 should be stored indoors when not in use and kept away from children.
16. The propane tank must be disconnected and removed from the unit, if the appliance is stored indoors.
17. Propane tanks must be stored outdoors in a well ventilated area out of the reach of children. Disconnected cylinders must have a plastic cap installed and must not be stored in a building, garage or any other enclosed area.
18. The pressure regulator and hose assembly supplied with the BiteShield Cordless Guardian, MK-14 must be used for connection to the propane tank. Replacement pressure regulators and hose assemblies must be purchased from Koolatron, Inc.

ACCESSORIES

PROPANE TANK COVER

- Made of durable outdoor cotton-based, weather-resistant material
- Machine washable in cold water, looks great!
- Designed with sewn-in velcro strips for quick and easy wrap-around installation
- Fits any standard 9.07kg/20lbs. propane tank
- One year warranty

For prices and availability please call: 800-265-8456

WARRANTY

This KOOLATRON product is warranted to the retail customer for 1 year from date of retail purchase, against defects in material and workmanship.

WHAT IS COVERED

- Replacement parts and labor.
- Transportation charges to customer for the repaired product.

WHAT IS NOT COVERED

- Damage caused by abuse, accident, misuse, or neglect.
- Transportation of the unit or component from the customer to Koolatron.

IMPLIED WARRANTIES

Any implied warranties, including the implied warranty of merchantability are also limited to the duration of 1 year from the date of retail purchase.

WARRANTY REGISTRATION

Register on-line at www.koolatron.com AND keep the original, dated, sales receipt with this manual.

WARRANTY AND SERVICE PROCEDURE

If you have a problem with your MOSQUITO TRAP, or require replacement parts, please telephone the following number for assistance:

North America 1-800-265-8456

Koolatron has Master Service Centers at these locations:

Koolatron U.S.A.

4330 Commerce Dr., Batavia, NY 14020-4102 U.S.A.

Koolatron Canada

139 Copernicus Blvd., Brantford, ON N3P 1N4 Canada

A Koolatron Master Service Centre must perform all warranty work.

Koolatron logo

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Made in Canada

Patent pending for Canada & U.S.A.

H1S 068

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