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CAPTURES MOSQUITOES

An attractant for mosquitoes!

NO TOOLS NEEDED!

Assembles in less than 60 seconds

Uses 9 kg (20 lb) Propane Tank (not included)

Propane lasts 4 to 6 weeks

Weatherproof Design

Piezo push button starter

Constructed with durable outdoor furniture quality plastic

Light weight

Wheels for easy movability

One Year Limited Warranty

DOMESTIC

KEEP OUT OF REACH OF CHILDREN

READ THE LABEL AND ENCLOSED INSTRUCTIONS BEFORE USING

REG. NO. 28460 PCPA

KOOLATRON INC.

1-800-265-8456

139 Copernicus Blvd.

Brantford, ON N3P 1N4

Canada

## MK12 Guardian Mosquito Trap

The MK 12 Guardian Mosquito Trap utilizes the documented attractiveness of carbon dioxide (CO<sub>2</sub>), 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 MK 12 Guardian Mosquito Trap uses this traditional trapping approach to turn the female mosquito's natural hunting techniques toward seeking out the trap and facilitating capture in a product that private home owners can use.

cULus Listed

### DIRECTIONS FOR USE INSIDE

Visit us on the web: [www.koolatron.com](http://www.koolatron.com)

For info call: 1-800-265-8456

KOOLATRON INC.

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

Warehouse: 4330 Commerce Dr., Batavia, NY 14020-4102 USA

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All specifications are subject to change without notice.

MADE IN CHINA

REVPKGMK11-1206

The MK 12 Guradian Mosquito Trap is on duty 24 hours a day and requires very little up-keep.

Simply empty the contents of the capture chamber  
(where the mosquitoes collect) and refill the propane periodically.

Vacuum Fan Pulls Mosquitoes in and Traps them

Exhaust Holes Release CO<sub>2</sub> into the Wind

Catch Cup Removes and Cleans Easily

Stainless Steel

Burner Unit Generates CO<sub>2</sub>

Ergonomic Tank Cover

Piezo Push Starter Button

9 kg (20 lb.) Propane Tank (Not Included)

Base Design Allows Attachment of a Padlock to the Propane Tank for Extra Security

(Propane Cover also Available)

Heavy Duty Ground Stakes Included

Wheels for Easy Movability

MK 12 Guardian Mosquito Trap

DIRECTIONS FOR USE

FOR YOUR SAFETY

If you smell Propane:

1. Shut off main gas valve on tank.
2. Extinguish any open flame.
3. If odour continues, immediately call your gas supplier.

DOMESTIC

KEEP OUT OF REACH OF CHILDREN

READ THE LABEL AND ENCLOSED INSTRUCTIONS BEFORE USING

Please retain instructions for future reference.

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REVINSTMK11-1206

## WARNING

This product is fueled by propane gas, which is invisible, odourless and highly flammable. An odourant 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 metres away from a leak.

Do not use a propane tank with a capacity larger than 9 kg (20 lb.). The propane cylinder must be provided with a shut-off valve, arranged for vapour withdrawal and include a collar to protect the cylinder’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 MK 12Guardian Mosquito Trap must be used for the connection to the propane tank. The maximum inlet gas supply is less than 30 SCFH. Replacement pressure regulator and hose assemblies must be provided by Koolatron Inc.

The MK 12 Guardian Mosquito Trap 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.

## MK 12 Guardian Mosquito Trap

### DIRECTIONS FOR ASSEMBLY AND USE

Read before unpacking and operating the MK 12 Guardian Mosquito Trap.

The MK 12 Guardian Mosquito Trap requires 120V AC and is for Outdoor Use Only.

#### FOR YOUR SAFETY:

1. Do not store or use gasoline or any other flammable vapours and liquids in the vicinity of the MK12 Guardian Mosquito Trap or any other appliance.
2. 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 (Material is packed on both sides of foam)

Hardware: (1) Thumbscrew

(A) Trap Body

(B) Burner Unit

(C) Upper Body Column

(D) Ground Stakes - Qty. (2)

(E) Catch Cup (installed Trap Body)

(F) Base

(G) Lower Body Support Column

(H) Regulator with Hose (attached to burner unit)

(I) Tank Bracket

(J) Propane Tank Cover

(K) Power Supply

Input: 120VAC 60Hz, 71W

Output: 12VAC @4200mA

(L) Wheels (attached)

## ASSEMBLY

Step 1: Assemble the support column to the base

Place the base on a flat surface. Insert the support column with the slotted side down as shown. Press in firmly.

Step 2: Attach the Burner Unit to the top of the support column

Attach the burner unit to the top of the support column as shown. Press the tabs on the sides of the support column to insert it into the hole in the burner unit. Make sure that BOTH tabs pop up through the holes in the bottom of the burner unit.

Step 3: Attach the upper body support to the top of the burner unit

Attach the Upper Body Support Column to the top of the burner unit as shown. Press the tabs on the sides of the upper burner support column to insert it into the hole in the bottom of the Upper Body Support Column. Make sure that BOTH tabs pop up through the holes in the bottom of the Upper Body Support Column.

Step 4: Attach the trap body to the Upper Body Support Column

Insert the tab on the trap body to the slots on the top of the Upper Body Support Column as shown. Press in firmly.

Step 5: Select the location where the MK 12 Guardian Mosquito Trap will be installed and hammer the stakes in the ground to properly secure it. Hammer the stakes through the slots in the base to secure the unit

**WARNING:** The MK 12 Guardian Mosquito Trap must be adequately secured in the ground.



## ATTACHING THE PROPANE TANK

### Step 6: Attach the power adapter

- A. Hang the power adapter on the back of the base as shown.
- B. Plug the adapter end into the socket on the underside of the trap body as shown.

### Step 7: Attach the Propane Tank to the Base.

Do not use a Propane Tank larger than 9 kg (20 lb).

- A. Place a full tank 9kg (20 lb) of propane on the base with the open side facing the bracket as shown. Turn the tank until the top engages in the bracket. Follow the safety information listed on the tank.
- B. Attach the tank anchor thumb screw into the threaded hole on the tank bracket.

## MK12 Guardian Mosquito Trap

### WHERE TO PLACE THE MK 12 GUARDIAN MOSQUITO TRAP

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 meal 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 meal 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 (CO<sub>2</sub>), temperature, scent, color, shape, movement and for some species, even sound. The female mosquito is usually most active between 10 degrees Celsius (50 degrees Fahrenheit) and 35 degrees Celsius (95 degrees Fahrenheit) while in calm or light breeze conditions. Mosquitoes tend to travel up-wind when seeking a blood meal.

The placement of the MK 12 Guardian Mosquito Trap will greatly affect the success of the unit's ability to capture mosquitoes.

The MK 12 Guardian Mosquito Trap should be placed 9 to 12 metres (30 to 40 feet) from your living areas, 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 3-4.6 metres (10-15 feet) 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 1.5-2.4 metres (5-8 feet) to the left of the original spot and repeat. Then 1.5-2.4 metres (5-8 feet) to the right of the original spot. 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 12-15 metres (40-50 feet) away from the deck area.

Placing the trap close to shrubs, bushes, or other vegetation can help to increase mosquito capture.

**WARNING:** Minimum clearance 61 cm (24 inches) to walls or ceilings is required.

## MK12 Guardian Mosquito Trap

### HOW THE MK 12 GUARDIAN MOSQUITO TRAP WORKS

The MK 12 Guardian Mosquito Trap utilizes the documented attractiveness of carbon dioxide (CO<sub>2</sub>), moisture, body temperature (thermal imaging), colour, 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 MK 12 Guardian Mosquito Trap uses this traditional trapping approach 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.

### WHAT TO EXPECT FROM THE MK 12 GUARDIAN MOSQUITO TRAP

To achieve the best results from your MK 12 Guardian Mosquito Trap, 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.

## STARTING THE MK 12 GUARDIAN MOSTQUITO TRAP

### 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 and hold the safety button. While looking into the center of the burner unit through the window, press the red button until a blue flame appears inside the window directly in front of you.

## OPERATION

1. Plug in the adapter's power cord to an approved "Outdoor Use" extension cord and in accordance with the safety instructions on page 12.
2. Plug the adapter end into the socket on the underside of the trap body as shown.
3. Locate the ON/OFF switch on the side of the main body. This activates the heater and the vacuum fan. Turn it to the "ON" position.
4. Leave the MK 12 Guardian Mosquito Trap turned on and the burner lit. The MK 12 Guardian Mosquito Trap will operate for 4 to 6 weeks continuously capturing mosquitoes on a single tank of propane.

## MAINTENANCE

1. Check the capture cup on a regular basis depending on how many mosquitoes are being trapped. Start by checking the trap once a week and adjust according to the catch. Use only clean water to rinse the cup, 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 cup, 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 unit and disconnect the electrical supply before changing the tank.
3. There is a replaceable fuse located on the bottom of the trap body. Check this fuse if the MK 12 Guardian Mosquito Trap Protector Mosquito Trap does not turn on when properly plugged into the approved 120V AC electric adapter. Replacement fuse is 250V / 2Amp).
4. Keep the area around the MK 12 Guardian Mosquito Trap clear and free from combustible materials, gasoline, and any other flammable vapours and liquids.

## MK12 Guardian Mosquito Trap

5. Keep the propane cylinder enclosure area free and clear from debris.
6. Clean the MK 12 Guardian Mosquito Trap outside surface with a mild detergent and a damp cloth. Do Not Spray with or immerse any part in water.
7. Replacement parts (Regulator with hose, Catch Cup, Ground Stakes) are available from Koolatron Inc.
8. Store the MK 12 Guardian Mosquito Trap in a cool dry place when not in use and AWAY FROM ANY CHEMICALS.
9. Occasionally the burner orifice may become clogged with dirt and debris causing the flame to be small or the trap not to light. Follow the instructions below to clean the burner if the trap will not light and at the beginning of each mosquito season.

### CLEANING THE BURNER ORIFICE

1. Use can of Gum Out brand carburetor cleaner available at most automotive supply shops or an equivalent product.
2. Attach the straw provided with the can to the can nozzle.
3. Insert the straw through the side of the mosquito trap and, by watching through the window guide the tip into one of the air holes under the burner.
4. Spray two 1 second bursts from the can.
5. Set the MK 12 Guardian Mosquito Trap aside and let the interior dry for at least 24 hours.

### WARNING

Carburetor cleaner is highly flammable. Do not attempt to light the MK 12 Guardian Mosquito Trap before the cleaner has dried thoroughly.

All repairs must be performed only by qualified service personnel.

The heater should be inspected before use and at least annually by a qualified service person. More frequent cleaning may be required as necessary. It is imperative that the compartment, burner and circulating air passageways be kept clean at all times.

6. Light the trap according to directions.

## MK12 Guardian Mosquito Trap

### SHUTTING OFF THE MK 12 GUARDIAN MOSQUITO TRAP

#### Step 1:

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

#### Step 2:

Look through the window on the side of the burner 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.

## ACCESSORIES

### PROPANE TANK COVER

Item#: MKTCoverP

- 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 kg (20 lb.) propane tank
- One year warranty

For prices and availability please call: 1-800-265-8456



## MK12 Guardian Mosquito Trap

### PRECAUTIONS

1. Only use an outdoor extension cord having a 3-prong plug and receptacle that accepts the MK 12 Guardian Mosquito Trap's plug. The MK 12 Guardian Mosquito Trap has a 3-conductor cord and a 3-prong grounding type plug to fit a properly grounded outlet. Replace damaged cords.
2. The electrical rating of the extension cord must be greater than or equal to the electrical rating of the MK 12 Guardian Mosquito Trap (120 Volt / 0.6 Amp). Use an extension cord with 16 gauge or thicker wire and that has a label stating it is suitable for outdoor use.
3. Do not abuse any electrical cord. Never yank it to disconnect from the receptacle. Keep all cords away from heat, flammable substances and sharp objects.
4. Devices for retaining the extension cord connection to the power supply cord are available where ever fine extension cords are sold.
5. The connection between the MK 12 Guardian Mosquito Trap and the extension cord must always remain dry and kept off of the ground.
6. Disconnect the MK 12 Guardian Mosquito Trap from the power supply when not in use, changing propane tanks, before servicing, cleaning, etc.
7. Do not insert foreign objects into this product.
8. The MK 12 Guardian Mosquito Trap is for Outdoor Use Only.
9. To avoid electric shock, DO NOT clean the MK 12 Guardian Mosquito Trap by spraying water or by immersion in water.
10. All repairs to the MK 12 Guardian Mosquito Trap must be performed only by qualified service personnel.
11. Read and follow all instructions affixed to the propane tank.
12. Young children should be carefully supervised when they are in the area of the MK 12 Guardian Mosquito Trap
13. Clothing or other flammable materials should not be hung from the MK 12 Guardian Mosquito Trap or placed on or near the MK 12 Guardian Mosquito Trap.
14. Any guard or other protective device removed for servicing the MK 12 Guardian Mosquito Trap must be replaced prior to operating.
15. It is imperative that the compartment, burner and circulating air passage ways of the MK 12 Guardian Mosquito Trap be kept clean at all times.
16. A maximum of a 9 kg (20 lb.) LP-Gas cylinder shall be used with the MK 12 Guardian Mosquito Trap
17. The LP-Gas cylinder must be provided with a shutoff valve terminating in an LP-Gas supply cylinder 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 9 kg (20 lb.) Propane tank manufactured after 1999).
18. The LP-Gas cylinder supply system must be arranged for vapor withdrawal and the cylinder must include a collar to protect the cylinder valve.
19. The LP-Gas cylinder used shall be constructed and marked in accordance with the specifications for LP-Gas cylinders of the U.S. Department of Transportation (DOT).
20. The MK 12 Guardian Mosquito Trap shall be used outdoors and only in a well ventilated space and shall not be used in a building, garage or any other enclosed area.
21. The MK 12 Guardian Mosquito Trap should be stored indoors when not in use and kept away from children.
22. The LP-Gas cylinder must be disconnected and removed from the MK 12 Guardian Mosquito Trap , if the appliance is stored indoors.
23. LP-Gas cylinders 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.
24. The pressure regulator and hose assembly supplied with the MK 12 Guardian Mosquito Trap must be used for connection to the LP-Gas cylinder. Replacement pressure regulators and hose assemblies must be purchased from Koolatron Inc.

## WARRANTY

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