

English Label –  
(Machine Label)

## **ARCTIC® Mosquito Killing System (ARCTIC MKS)**

**DOMESTIC**

Developed with technical assistance with NASA

**FOR OUTDOOR USE ONLY**

**READ THE LABEL AND ENCLOSED INSTRUCTIONS BEFORE USING  
KEEP OUT OF REACH OF CHILDREN**

**Reg. No. 28494 P.C.P. Act**

Model  
MKS-1

Manufactured under the following Patent Numbers:  
5,595,018 and 6,050,025 and other Patent Pending

Arctic Products  
P.O. Box 104293  
Jefferson City, MO  
65110-4293  
800-325-8157  
(573-636-9678)

Electrical Rating: 120 Volts AC; 4 amps; 60 Htz

- **CAUTION** - To provide continued protection against the risk of electric shock, connect to properly grounded outlets only.
- **CAUTION** - High voltage: disconnect electrical power before servicing.
- **CAUTION** - To reduce risk of electric shock, keep extension cord connection dry and off the ground.

*{Insert UL Classification & Picture of Device with Statement  
“9 Kg (20 lb) carbon dioxide tank is not included”}*

English Label –  
(Main Label)

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## **Developed with technical assistance with NASA**

The Arctic Mosquito Killing System (ARCTIC MKS) is a revolutionary mosquito trapping device. The ARCTIC MKS has been developed with over 16 years of research by Alvin Wilbanks with technical assistance from NASA. A scientific breakthrough in trapping mosquitoes that mimics the main cues to attract and kill biting mosquitoes by simulating the infrared (heat) signatures of their natural prey and the releasing of warmed carbon dioxide (CO<sub>2</sub>) which mimics breathing. The ARCTIC MKS uses carbon dioxide to mimic the respiration of a person and cycles through body temperatures ranging from humans, livestock, poultry, and domesticated pets every 6 to 9 minutes. The surface texture simulates skin texture with pores. Mosquitoes are attracted and then vacuumed into the unit where they are quickly and quietly eliminated. The ARCTIC MKS has been shown to attract and kill large numbers of mosquitoes in a single night.

The ARCTIC MKS is equipped with a photocell that turns the unit on at dusk, making it energy efficient.

Made from high-grade aluminum, it may be mounted with the bracket provided.

The ARCTIC MKS unit features strong, durable construction; yet is attractive enough to be a suitable addition to any lawn, patio, or any other area where trapping and killing mosquitoes is required. With consumer safety as a primary consideration, the ARCTIC MKS features:

- UL (Underwriters Laboratory) Listed (# 1WF9)
- Registered under the ***Pest Control Products Act*** for use in Canada.
- Certified Components
- Quality Workmanship
- Manual reset default breaker

Unknown to most people, the female mosquito can reproduce 1,000 to 3,000 eggs during the insects life span (which is 20-100 days in laboratory conditions depending on species.)

***{INSERT DEVICE ASSEMBLY GRAPHIC}***

## **ASSEMBLY INSTRUCTIONS**

1. Place the lengthwise crossed bases and transverse crossed base on the floor and then attach them together as shown.
2. Attach lower pole and crossed base together with the bolts and washers provided and tighten securely.
3. Attach upper pole and lower pole together as shown by rotating the upper pole clockwise after you insert it into the lower one, then use the knob provided and tighten securely.
4. Attach the mounting bracket and the upper pole together as shown below using 6 each of nuts, bolts and washers provided and tighten securely.
5. Using a hammer, insert the 3 anchor pins through the holes on each corner of the stand base until the anchor pin head is flush with the base.
6. Attach the tank holder and the crossed base together as shown with bolts and washers provided and tighten securely.

## **PLACEMENT OF THE ARCTIC MKS**

1. The ARCTIC MKS unit is equipped with a 3-prong grounded plug and must be connected to an appropriate receptacle that is properly installed and grounded in order to reduce the risk of electrical shock (e.g. recommended GFI-equipped).
2. The ARCTIC MKS should be placed approximately 6 metres (20 feet) away from all outdoor activities so you are not competing with the ARCTIC MKS.
3. Do not place the unit in direct outdoor lighting. This effects the photo-sensor operation and may cause it to capture beneficial insects.
4. Place the ARCTIC MKS unit in shaded area if unit is to operate during the day (i.e. will not function properly in direct sunlight).
5. Place the ARCTIC MKS so that you are not downwind from the ARCTIC MKS attractants (body heat and breathing signatures).
6. If mounting on a fence, building, etc., the bottom of the ARCTIC MKS should be 1 metre (3 feet) from the ground but not higher than 1.3 metres (4 feet) from the ground.
7. The ARCTIC MKS can be placed in areas where roosting is noticeable such as garages, shrubbery, water sources, shaded areas, mulch areas, decks, etc.
8. When the ARCTIC MKS is mounted, make sure there is sufficient room for air to pass through the ARCTIC MKS.
9. Do not restrict the airflow by placing the ARCTIC MKS on the ground, table, etc.
10. If an area is heavily infested with mosquitoes, (i.e., a porch, garage or deck), place the unit in the area near the source of the mosquitoes.
11. Depending on the density of the foliage and the surrounding environment, more than one unit may be necessary.
12. The ARCTIC MKS comes with one mounting bracket for easy installation.
13. For the best effectiveness, the ARCTIC MKS should not be placed within 6 metres (20 feet) of out buildings and/or any object that could absorb heat and/or put off heat.

## **OPERATION OF THE ARCTIC MKS**

1. Plug the ARCTIC MKS cord into a 3-prong ground receptacle.
2. Turn the On/Off switch to the "On" position.
3. Green indicator light indicates that the unit is functioning properly.
4. Amber indicator light indicates that CO<sub>2</sub> is pulsating off and on.
5. Red indicator light indicates that the heat blanket is on.

The ARCTIC MKS will check for darkness by its photocell. The photocell is located on top of the unit to the left of the red heat blanket light. A cover is on the photocell when it is shipped and must be removed for the ARCTIC MKS to function properly so that the unit can release carbon dioxide as programmed. The heating/electrocution grid/carbon dioxide will begin to run when it becomes dark and will automatically shut off when it becomes light. When it becomes dark, carbon dioxide is emitted for 2 minutes, the ARCTIC MKS then transfers to fan mode for 1.5 minutes. This cycle is for 5 hours. Then it transfers to the second cycle of producing body heat signatures with continuous fan and no CO<sub>2</sub> release. The ARCTIC MKS then randomly produces various animal body signatures every 6 to 9 minutes via its internal heat chamber for the remainder of the night. If you would like to continue repeating the first cycle, then the unit will need to be put on a timer to shut off and reset every 5 hours. The unit must go to the sleep mode to continue releasing CO<sub>2</sub>. If you cover the photocell and let the unit run continuously, then it will not release CO<sub>2</sub>.

For severe mosquito populations, we recommend you put the unit on a timer and shut it off every 5 hours for 2 minutes and then back on so the unit can reset. This will allow you to run the unit continuously. The CO2 bottle lasts 31 days on 1 cycle a day.

***{INSERT DEVICE OPERATIONAL SWITCHES AND LIGHTING GRAPHIC}***

**CAPTURE NET**

- The ARCTIC MKS capture net is included with all units to confirm a mosquito kill.

Note: During the many years of research and development, it took 4 years alone to determine the correct airflow, which is a critical factor in the ARCTIC MKS performance. After determining a location for your ARCTIC MKS, remove the capture net for best results in trapping and killing mosquitoes.

**BENEFITS OF THE ARCTIC MKS**

The purpose of the ARCTIC MKS is to effectively attract and kill large numbers of mosquitoes. ARCTIC'S belief is that in order to kill mosquitoes, they must first be attracted to the device. The ARCTIC MKS is powered by 110 volt AC, with an estimated operational cost of \$6 to \$8 a month.

**USAGE, CARE, SAFETY and PRECAUTIONS**

- The ARCTIC MKS unit is equipped with a 3-prong ground plug and must be connected to an appropriate receptacle (120v/60Hz) that is properly installed and grounded in order to reduce the risk of electrical shock. Locate the ARCTIC MKS near a 3-prong ground receptacle power source.
- If an extension cord must be used to supply the power to the unit:
  - use only 3-conductor extension cords that have 3-prong ground plugs on both ends
  - use only extension cords containing a surface mark rating of SJW-A, SJEW-A, or SJTW-A and having a tag stating, "Suitable for use with outdoor appliances"
  - the extension cord must be kept dry and off the ground
  - never connect a damaged extension cord to the ARCTIC MKS unit
- To reduce the risk of electrocution, do not place the ARCTIC MKS next to or within 6 metres (20 feet) of a swimming pool where it could possibly tip over if mounted on the portable stand.
- Do not place the ARCTIC MKS over standing water, due to risk of electrocution, unless the unit is permanently mounted and the electrical supply is through a 3-prong ground fault receptacle.
- Any electrical supply should be installed by a licensed electrician for permanent placement of the unit.
- Consult a qualified electrician or serviceman if any doubt exists concerning your grounded power source.
- If used, the electrical rating of the extension cord must be equal to or greater than the electrical rating of the ARCTIC MKS (684-watts/5.7-Amps).
- Do not abuse the power cord. Never carry the ARCTIC MKS unit by the cord, or jerk the cord to disconnect from the power receptacle.
- Keep the cord away from heat, oil and sharp edged objects.
- Disconnect the ARCTIC MKS power cord from the power source when not in use (conserves energy).

- Never insert foreign objects into the ARCTIC MKS.
- Do not clean with liquid cleaners. Never spray water into the ARCTIC MKS.
- All servicing should be performed by an authorized ARCTIC representative.
- Do not operate the ARCTIC MKS when the ARCTIC MKS has a restricted airflow. (i.e. Sitting on a table or on the ground directly).
- Manual reset default breaker is located at the back, under the top of the unit. Depress button until it engages and the unit will be reset.

### **CARBON DIOXIDE INFORMATION**

- A 9 kg (20 lb) carbon dioxide tank is not included.
- Use carbon dioxide in ventilated areas only.
- Insert the regulator washer into the regulator connector fitting end that attaches to the carbon dioxide tank. Tighten the connector nut securely to the tank using an adjustable wrench.
- Attach the threaded connector hose of the carbon dioxide hose to the end of the regulator and tighten securely using an adjustable wrench.
- Carbon dioxide is a colourless, odourless, incombustible gas formed during respiration, combustion and organic decomposition. CO<sub>2</sub> is also used in food refrigeration, carbonated beverages, inert atmospheres, fire extinguishers and aerosols.
- On the carbon dioxide exhaust line there are three tiny holes that release carbon dioxide above the name plate, inward, upward, and outwards.
- The ARCTIC MKS is dispensing the carbon dioxide in various ranges equivalent to small pets, people and cattle.
- A 9 kg (20 lb.) carbon dioxide tank will last approximately thirty-one days.
- The tank cover is for cosmetic purposes only.

**CAUTION:** Arctic suggests that only the regulator supplied with the unit be used. Arctic will not accept responsibility for the functioning of the ARCTIC MKS if an alternate regulator is used.

CO<sub>2</sub> is readily available in thousands of locations through the following commercial facilities:

- Carbonated Beverage Industry
- Beer Distribution Industry
- Restaurant Distribution Industry
- Paintball Distribution Industry

Check your “yellow pages” under “Medical & Industrial Gases”.

### **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.

For Sales and Service Information, contact;

Mosquito Inc.  
Jefferson City, MO  
573-896-2554  
573-230-6221

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