
BIRDBUFFER® TF

Quiet Thermal Fogger

Operating Instructions



P/N 800050

Read this guide thoroughly before operating your *BIRDBUFFER*® TF Quiet Thermal Fogger.

Keep this manual in a safe place for future reference.

**BirdBuffer LLC
1420 80th St. S.W., Ste. #D
Everett, WA 98203
(866) 557-4274 ♦ (425) 697-4274
www.birdbuffer.com
info@birdbuffer.com**

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Thank you for purchasing *BIRDBUFFER*® for bird control

To guarantee successful operation of this machine, please take some time to read the manual carefully.

Keep this manual for future reference.

The *BIRDBUFFER*® TF Quiet Thermal Fogger is an efficient and effective tool for the management of nuisance birds that does not cause harm to humans, birds or other animals. It uses an environmentally harmless fluid made from grape concentrate that includes the active ingredient methyl anthranilate (MA), a naturally occurring compound in concord grapes. MA is approved for use as a bird repellent by the E.P.A. and U.S.D.A., and is currently used as a bird repellent on many food crops. It has been in widespread use for over 40 years as a flavoring and fragrance in many foods and cosmetics as approved by the U.S.F.D.A.

The BIRDBUFFER® TF Quiet Thermal Fogger delivers a dry vapor when fog is released into the open atmosphere. The vapor will remain suspended and not settle to the ground. Some fluid may drip from spray nozzle. The fluid (Avian Control®) may harm or discolor plastics, rubber and painted surfaces. Take precautions to avoid contact with these materials. For outdoor use only.

Supplied Items

Carefully unpack your *BIRDBUFFER*® TF shipping container. If something is missing or damaged please call your retailer or sales representative or call BirdBuffer LLC Support at 1-888-557-4274.

We believe you will enjoy years of great service if you care for and maintain *BIRDBUFFER*® TF Quiet Thermal Fogger.

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1. Important Safety Information



WARNING!

Read and understand all safety precautions, labels and operating instructions before operating the *BIRDBUFFER*® TF Quiet Thermal Fogger and Avian Control® Fluid.



WARNING: Read entire instruction booklet before operating

- **Avoid** breathing Avian Control® Fluid fog or vapors.
- **Always** preheat your fogger for two minutes or more, while keeping the fogger level with the ground. Failure to pre-heat the heater coil may cause an uncontrollable flame. Failure to pre-heat the heater coil may also clog the heater coil, damaging your fogger or causing it to squirt raw fluid, which can damage some surfaces.
- Only use Avian Control® Fluid.
- **Always** operate your fogger with the heater coil level to the ground. Pointing the fogger down may allow liquid propane to clog the torch, causing flame-up or uncontrollable burn.
- **Do not** over tighten the propane fuel valve. Your fogger will continue to burn for a short while (1-2 minutes) after the valve is turned off. Over tightening will cause serious damage to your fogger.
- We recommend the use of the 14.1 oz., tall style propane cylinder (3" diameter x 10.5" long). **We do not recommend the use of the shorter, 16 oz. lantern cylinders. Lantern cylinders may cause flare-ups or uncontrollable burn, particularly when the cylinder is full.**
- **Always** inspect the threaded outlet of the propane fuel cylinder and remove any dirt that may be there. Check for leaks with soapy water if odor is present.



WARNING: Keep face, hands and clothing away from coil wire basket at all times. Coil wire basket becomes very hot while in operation.

- **Always** engage the trigger lock at all times except when fogging (push button to right). This will prevent accidental pumping of fluid into coil. An accumulation of fluid in the coil may cause liquid discharge when lighting the unit. Such a concentrated discharge may ignite or stain clothing, etc.
- **Never** leave Fogger unattended when the burner is lit.
- **Never** touch flammable objects with coil wire basket.
- **Do not** overfill fluid vessel.
- Turn off propane valve and allow unit to cool before refilling.
- **Always** follow Avian Control® Fog Fluid label instructions.
- Avian Control® fluid will cause temporary irritation to eyes if touched while installing or pouring the fluid. Wear protective eyewear when filling the *BIRDBUFFER*® TF Quiet Thermal Fogger. If fluid gets into the eyes, rinse thoroughly with water for 15-20 minutes. See fluid SDS for information.
- **The fluid (Avian Control®) may harm or discolor plastics, rubber and painted surfaces. Take precautions to avoid contact with these materials.**

- Fluid can be slippery if spilled. Clean up spills promptly with soap and warm water.
- Propane gas cylinders are high pressure. **Do not** handle cylinders roughly. Follow instructions on cylinder label.
- **Never** store propane gas cylinders indoors or attached to Fogger. Always store cylinders in a cool, well-ventilated place.
- **Caution! Do not** incinerate cylinders or fluid vessel. Propane cylinders should be disposed of properly when empty.

2. Set of Equipment Supplied

- *BIRDBUFFER*® TF Quiet Thermal Fogger
- Instruction booklet

2.1 Optional Accessories

- Avian Control® Fluid P/N 840000 (as ordered)

2.2 Tools Required For Job

- Stop watch or second hand
- Can of Windicator Vapor for air direction
- Dated bottle of Avian Control® (use within 2 years)
- Gloves (supplied with fluid)
- Eye protection
- 14.1 oz. propane cylinder



Figure 1. Avian Control® Fluid for *BIRDBUFFER*® TF Quiet Thermal Fogger

3. Using The *BIRDBUFFER*® TF

3.1 Getting familiar with the product:

- Fluid Vessel – This container holds your Avian Control® Fluid bird repellent. Use only Avian Control® Fluid.
- Handle/Body of the *BIRDBUFFER*® TF Fogger – This takes the Avian Control® Fluid from the fluid vessel, delivering it to the heater coil. Attached to the rear is a propane fuel channel for a bottle of propane gas (not included). This gives the Fogger the ability to fog Avian Control® Fluid. Located on the Handle/Body of the Fogger are the following:
 1. Propane Fuel Valve – This is a black knob located on the side of the handle. The Propane fuel valve turns on the propane to begin the fogging process. Always make sure that the propane fuel valve is turned clockwise to a stop when storing the Fogger.
 2. Trigger – Located underneath the handle. The trigger controls when the fog is released from the Fogger. By pumping this trigger, the Avian Control® Fluid is turned into fog.
 3. Trigger Lock – This button is located on the top front of the handle. When the button is pushed in to the right, the trigger is locked. You will be unable to pull the trigger. Always lock the trigger when the Fogger is not being used and during ignition.
 4. Igniter – Below the trigger lock is the igniter. By pushing in the igniter, a spark lights the heater coil to create the heat. To test the igniter, go into a dark room and push the igniter button, without a propane gas cylinder attached. You should see a spark just below the heater coil. If you do not see a spark the heater coil will need to be ignited with a lighter or match.
 5. Coil – The coil is protected by a wire basket on the end of the handle opposite the propane cylinder. This is the area in which the fog is released.

WARNING: this area will be hot. Keep away from your body and flammables.

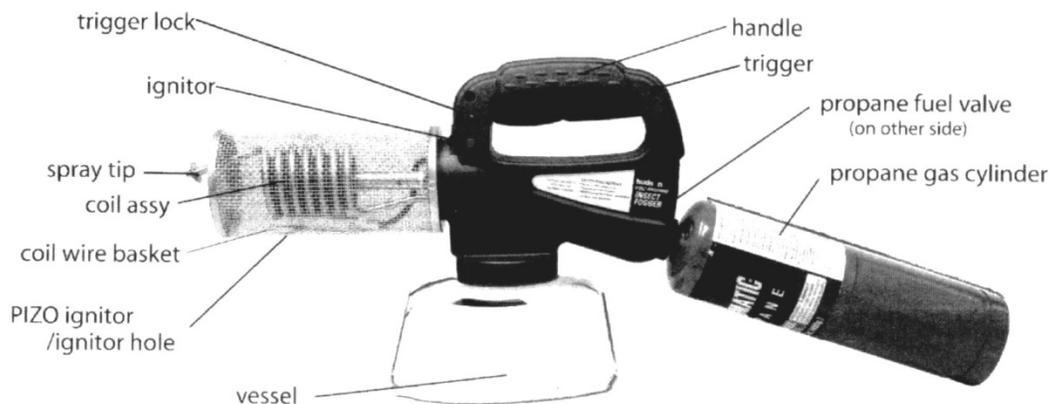


Figure 2: Parts identification view

3.2 Preparation for Bird Control

- Lock trigger button – Push the button at the front of the Fogger to lock the trigger.
- 1. Fluid Vessel – Fill the plastic fluid vessel with Avian Control® Fluid at room temperature (60-70°). Use a funnel to be sure that you do NOT overfill. Screw the fluid vessel on securely to ensure safety while using the Fogger. Be careful not to OVERTIGHTEN! Damage may occur.



CAUTION: Risk of eye irritation. Wear goggles.

Vapor Fluid causes acute but temporary irritation if it comes in direct contact with the eyes. Always use protective eyewear when filling the Fogger. If vapor fluid gets into the eyes, rinse thoroughly with water for 15-20 minutes.

- Using any product other than Avian Control® could clog the heater coil and result in an unsafe condition and will void the warranty.
- Make sure the Propane Fuel Valve is closed (turned all the way clockwise).
- Insert the propane gas cylinder – locate the channel at the rear of the handle. Inspect the cylinder and Fogger to make sure that both are clean and free of debris. Lightly push the propane cylinder into the channel and turn clockwise until the cylinder is in place, being careful not to cross-thread the cylinder. Hand tighten.

3.3 Operating the Fogger

- Verify that the trigger is locked by pulling the trigger. The trigger should not move.
- Always make sure the Fogger is placed on a level surface to ignite and preheat.
- Open propane fuel valve no more than ¼ turn counter-clockwise.
- Push in the igniter button to initiate a spark. The heater coil will ignite.
- If the igniter does not spark, close the fuel valve. Wait 1 minute and repeat lighting procedure. Move over a few feet to avoid residual fumes in the immediate area.
- If the igniter does NOT light the heater coil, close fuel valve and wait 1 minute again. Using a lighter or match, place flame in igniter hole and turn the propane fuel valve slowly until the coil ignites.
- Once lit, **pre-heat** the Fogger for 1 to 2 minutes. Failure to do so may result in damage to the Fogger.
- The Fogger is ready to operate. Release the trigger lock. **WARNING: Do not touch the heater coil or coil wire basket. It will be hot! Keep out of the reach of children.**
- To release the Avian Control® Fluid, gently squeeze the blue trigger ½ way to create a light haze. **If a flame appears, stop pumping immediately.** Excess fluid is present, causing the flame to appear. Turn off the propane fuel valve

and place the Fogger on a non-flammable surface. Allow the Fogger to sit undisturbed for 10 minutes, then return to step 1 of Operating the Fogger.

- Use the Fogger facing toward the target area with the wind at your back. This will allow air movement to blow the fog toward the target bird area and prevent the fog from blowing back toward you. To verify wind direction, see section 3.4, Windicator Smoke in a Can.
- Move back far enough to engage air currents in the flight path of the birds, as well as where they are roosting.

3.4 Windicator Smoke in a Can

- If you are using a can of the Windicator (See *Figure 3.*), spray the smoke into the air. See air flow changes, detect drafts, and study air currents.
- Determine location for use of the *BIRDBUFFER® TF* Fogger to be upwind of bird pressure area.
- Windicator lets you see which way the current carries the vapor from the *BIRDBUFFER® TF*



Figure 3.
Windicator Smoke (2 oz.)

3.5 Other Usage Tips

- **Always** operate the *BIRDBUFFER® TF* Fogger with the coil wire basket level with the ground. Do not turn upside-down or on its side.
- **Use** on plants or outdoor shrubs with light haze only.
- **Never** use the Fogger in extreme temperatures or harsh winds.
- The Fogger can be used to create dry fog, depending on the rate of pumping. The recommended pump rate is a slow, ½ squeeze once every 3 to 4 seconds to achieve maximum effect. A dry fog is generally preferable.
- The fog should be white in color. If not, you are pumping too quickly and the end of the fogger will be wet, resulting in drips which may potentially damage or discolor sensitive materials such as plastics or painted surfaces.

3.6 Turning the Fogger off

- Lock the trigger by pushing the trigger lock to the right side.
- The Avian Control® Fluid may continue to fog for a few minutes.
- Once the fog is stopped, turn off the propane fuel valve. It may take several additional minutes for the Fogger to cool down.

3.7 Storage

- Always store the Fogger in a cool, well-ventilated place. Keep out of the reach of children. Always remove the propane gas cylinder. Never store the Fogger with Avian Control® Fluid in the fluid vessel or damage to the unit will occur.
- Store vapor fluid only in the original container apart from pesticides, fertilizers, food or feed that may cause cross-contamination from odor. Store out of reach of children and pets. Store at room temperature. Keep tightly closed when not in use. Do not store in direct sun light.

4. Thermal fogging techniques

- The *BIRDBUFFER*® TF Quiet Thermal Fogger is easy to use and handy to have. No electricity is required. This means no cords or power to have to handle. When the unit is operating, it is completely quiet and so much easier to use than loud equipment.
- Cleaning the area before fogging is very important, particularly the removal of nests. The fog will chase the birds away, but as long as there is a nest they will return until the nest finished.
- For bird control, this thin, dry fog can be very effective. But remember it is manually operated and must have an operator to work. You can never leave the unit while it is turned on. It must be turned off in order to be set down.
- Stand upwind from your bird area and walk into the area slowly and quietly. As you start to fog, slowly back away or “waft” the fog toward the birds. You do not want to scare the birds away. You want as many birds to “feel” the effect as possible.
- As the fog starts to spread, please note the amount of area it will cover is much more than what you will visibly see with the fog. Let the fog do the work and get as many of the birds exposed to the fog as possible. Birds in the fog are much better. They will eventually fly but will remember the effect much longer and not want to return.
- You may see birds becoming uncomfortable. Allow this to happen. They are feeling the effect. Continue to pump the blue handle/trigger slowly, creating fog until the birds have left. This should make them leave if they are breathing it in within 10 minutes.
- During the planning of your fogging, be certain that there is no public activity to work around. The best applications are normally in the morning when you catch the birds roosting and people are not exposed. The odor of the fog is not pleasant and should not be used around public areas during human activity.
- In hotel settings, be certain doors and windows are closed to keep the fog from going indoors. Normally the fog will go away with air movement in 10 minutes or more. But if it goes inside, it could linger for hours.
- The best part of this quiet fogger is the quiet ability to fog without disturbing the tenants or the birds. It will be easy to get the job done quietly without any disturbance at all.
- Reaching those hard to get to places may seem daunting at first, but once you’ve seen the impact the *BIRDBUFFER*® TF Quiet Thermal Fogger can have, you’ll be glad of the effort. You always want to make the biggest impact with the birds, but the least amount of impact with the public.
- In areas where there are constant migratory birds passing through, use the Thermal Fogger occasionally to keep birds sensitized and get a faster response.

5. Trouble Shooting Guide

Trouble Shooting Guide		
Symptom	Probable Cause	Corrective Action
No fog - Burner works	<ol style="list-style-type: none"> 1 Spray tip and/or end of heater coil obstructed or clogged 2 Pump plugged 3 Improper fogging material 	<ol style="list-style-type: none"> 1 Remove Spray tip and check for blockage. Clean spray tip to remove blockage. With spray tip removed, use a pipe cleaner to clear out carbon build-up that may be inside the burner coil. Replace spray tip and tighten securely. 2 Remove Fluid Vessel. With fogger on its side, carefully remove Plastic Pump Assembly Cover (be aware of spring & bearing inside cover) from fogger. Insert a small wire into hole in bottom of Pump Assembly (clearing any blockage). Carefully replace Plastic Pump Assembly cover with spring & bearing inside. 4 Use only Avian Control® Fluid Fluid
No fog-burner not working	<ol style="list-style-type: none"> 1 Propane cylinder empty 2 Propane tank attached improperly 3 Burner assembly fails to light or will not stay lit 	<ol style="list-style-type: none"> 1 Replace propane cylinder 2 Check to see if propane cylinder is properly attached 3 Check igniter. Test lighting unit using a match.
Dripping	<ol style="list-style-type: none"> 1 Spray tip loose 2 Excessive fluid output 3 Not at operating temperature 	<ol style="list-style-type: none"> 1 Tighten spray tip securely 2 Decrease your pumping rate. 3 Wait 60 seconds before pumping
Poor fog quality	<ol style="list-style-type: none"> 1 Improper fogging material 2 If fog is thin or yellowish pumping rate is too low 3 If fog is wet and dripping. 	<ol style="list-style-type: none"> 1 Use only BirdBuffer dated bottle of Avian Control® Fluid (within 1 year) 2 Increase your pumping rate. 3 Decrease your pumping_rate
Flare up or un-controlled burning	<ol style="list-style-type: none"> 1 Fogger pointed toward the ground 2 Fluid ignited 	<ol style="list-style-type: none"> 1 Always operate your fogger level with ground. New propane bottles may be more likely to flare. 2 Stop pumping immediately. Turn propane valve off. Flame will stop after excess fluid is eliminated
Piezo ignitor will not spark	Ignitor broken or worn out	Replace ignitor

6. 90 Day Limited Warranty

Model: _____ Purchased on (date): _____

Serial number: _____ Purchased from: _____

Congratulations!

You can now look forward to many years of reliable operation and outstanding performance. Thank you for making BirdBuffer your personal choice in bird defense. Please take a moment to **fill out the top of this warranty**, and then keep it – with the receipt – in a safe place.

If you would like to receive information about specials, sales, and new products, please log on to www.birdbuffer.com and click on the “Contact Us” link.

We appreciate your business, and wish to provide you with a quality product that will serve you for many years to come. Once again, thank you for choosing BirdBuffer, and enjoy your new product!

LIMITED WARRANTY CONDITIONS

This limited warranty guarantees to the original purchaser that this product shall be free of defects in material and workmanship, under normal use, for a period of ninety days from the date of purchase shown on the sales receipt. This warranty covers parts and labor providing the product is returned to BirdBuffer in the original shipping carton and packaging. The warranty for electrical is a (90) NINETY DAY limited warranty.

Damage resulting from shipping, accidents, misuse, negligence, unauthorized repairs or modification is not covered by this warranty. Using any fluid other than what is recommended for this machine will void warranty. No liability is accepted for injury or for loss, damage or expense resulting from any interruption whatsoever in the operation of the product or from any consequential loss arising there from. No liability is accepted for normal wear and tear.

We wish to satisfy YOU, our customer, and have implemented many measures to prevent problems and assure customer satisfaction. However, should you need a missing part or have a functional problem with your product, please call:

(866) 557-4274, from 7:30 am – 4:00 pm (Pacific Time), Monday – Friday, except for holidays. Our customer service department will respond to your problems immediately.

Subject to the following conditions, BirdBuffer will repair any defect or fault in the unit if it is caused by a proven factory defect within ninety days of delivery to the end user. Insignificant deviations of the regular product quality does not guarantee replacement rights, nor do faults or defects caused by water, by generally abnormal environment conditions or Force Majeure:

1. Faulty parts or equipment will be repaired or replaced (manufacturer’s choice) with correct parts. Faulty units must be shipped to BirdBuffer at customer’s expense. Call for an RMA# - AN RMA# MUST COME WITH THE UNIT. Payment arrangements for repair must be made before receiving your RMA#, in case the unit is not covered under this limited warranty.
2. Repairs/replacements will only be made with the approval of the customer.

3. Exposure to outside elements voids Warranty. Unit cannot be used outdoors or in wet weather without complete protection against the elements. Even then, high salty or humid conditions will cause instant corrosion of connectors and will void Warranty.
4. The customer loses all rights for limited warranty services if any repairs or adjustments are done to the units by unauthorized persons, and/or if spare parts are used, which are not approved by BirdBuffer. The right of limited warranty service is also lost if a fluid other than appropriate BirdBuffer fluid has been used or if units are sent in without first emptying the equipment of fluid.
5. Freight costs to and from BirdBuffer, when under the limited warranty services, are the responsibility of the customer. Customer must place appropriate insurance on return of product. However, if product is returned due to factory defect within the first year, BirdBuffer will cover the cost of returning the repaired unit to the customer.
6. Limited warranty services do not cause an extension of the limited warranty period or the start of a new limited warranty period. The warranty of replaced parts ends with the limited warranty period of the whole unit.
7. Further claims, especially for damages, losses etc. outside the unit are excluded.

Send unit to: BirdBuffer
RMA # XXXXXXXX
1420 80th St. SW #D
Everett, WA 98203



Tel: (866) 557-4274 or (425) 697-4274
Fax: (425) 776-5129
Website: www.birdbuffer.com
E-mail: gary@citcfx.com



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