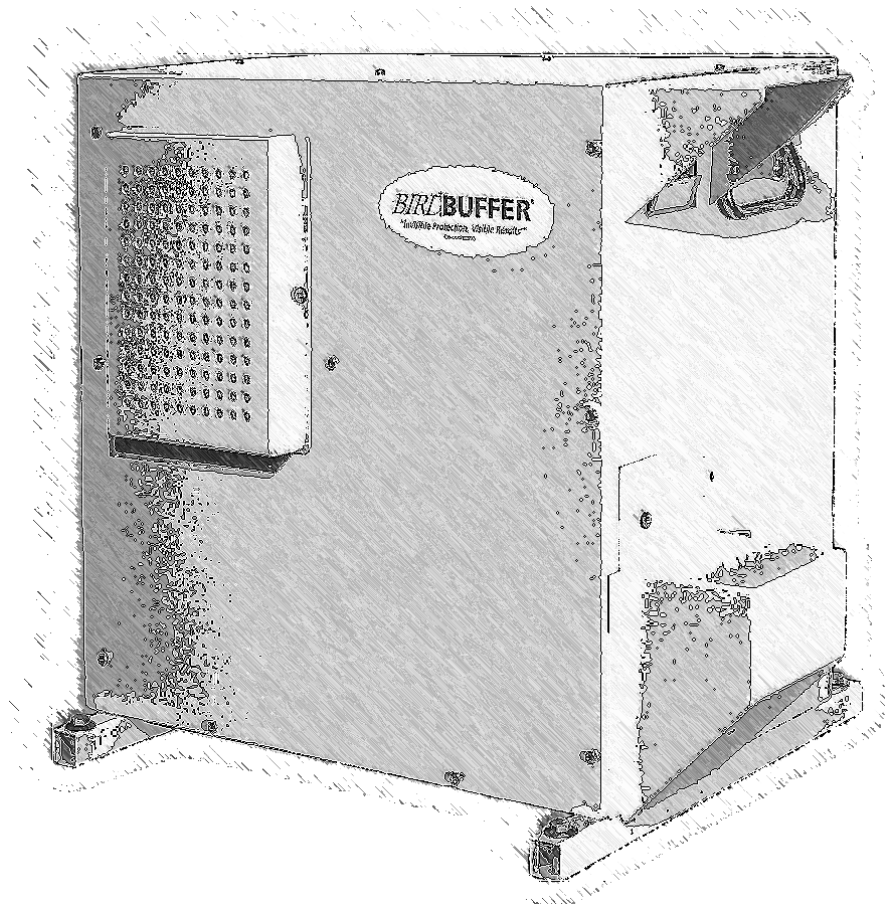

BIRDBUFFER Q2[®]

With Digital Display

Operating Instructions



P/N 800045 (120VAC) (Heated unit below 55° F)
P/N 800046 (230VAC) (Heated unit below 10° C)

**Thank you for purchasing *BIRDBUFFER Q2*® for bird control.
Read this guide thoroughly before operating your *BIRDBUFFER Q2*®.
Keep this manual in a safe place for future reference.**

info@birdbuffer.com

www.birdbuffer.com

866-557-4274

425-697-4274

425-776-5129 (fax)

BIRDBUFFER® is a patented and registered trademark of BIRDBUFFER LLC

Rejex-it® Fluid is a registered trademark of Ceannard, Inc.

Specifications subject to change without notice.

Patent number 7334745

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Rev. 6 08202011

1.1 Owner's Record

The model number and serial numbers are located at the back of the BirdBuffer. Record them in the space below. Refer to these numbers in any correspondence with your retailer or with BIRDBUFFER LLC, Inc.

Model Number: _____

Serial Number: _____

1.2 Registration Card

Fill out and return the enclosed registration card. This will activate the product warranty. If you have any questions about this product please call your retailer or BIRDBUFFER LLC at 1-866-786-2482.

We believe you will enjoy years of great service if you care for and maintain
***BIRDBUFFER Q2*®.**

**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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1. Important Safety Information

WARNING!



Read and understand all labels and operating instructions before installing or operating the *BIRDBUFFER Q2*® and Rejex-it® Fluid.



WARNING: Risk of Fire or Electric Shock

- Never work on *BIRDBUFFER Q2*® without first disconnecting the power cord.
- This product should only be operated from the type of power source indicated on the marking label (120 VAC OR 230 VAC). If you have any doubts about the capacity or grounding of your existing circuits, consult a qualified electrician.
- This product is equipped with a three-wire grounding-type plug, a plug having a third grounding pin. This plug will only fit into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace the obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.
- Do not expose the device to rain or moisture. Make sure the area around the device is dry before turning power on.
- Provide adequate space for ventilation. Make sure the unit is located within 12 ft (4 m) of open area around it.



CAUTION: Risk of personal injury or equipment damage.

- Rejex-It® fluid will cause temporary irritation to eyes if touched while installing or pouring the fluid. Wear protective eyewear when filling the *BIRDBUFFER Q2*®. If fluid gets into the eyes, rinse thoroughly with water for 15-20 minutes.
- The fluid (Rejex-it®) may harm plastics, rubber and painted surfaces. Take precautions to avoid contact with these materials. Clean up spills promptly with soap and warm water.
- The fluid is very slippery. To avoid risk of injury, clean spills promptly.
- Never operate the *BIRDBUFFER Q2*® with water-based fogging fluids. This will cause irreversible damage to the tank. Use of fluids other than purchased from BIRDBUFFER LLC Rejex-it® Fluid will void the warranty.

Do not operate the *BIRDBUFFER Q2*® in freezing conditions without a heater system installed. The unit will not start in temperatures below 50° F (10° C) without the heater system.

2. Description of The *BIRDBUFFER Q2*®

- The *BIRDBUFFER Q2*® may be used indoors and outdoors (with outdoor cover) for bird control such as starlings, pigeons, blackbirds, cowbirds, gulls, Canada geese, mallards, and other birds that have become a nuisance or health hazard in the target area. For owls, vapor at night.
- *BIRDBUFFER Q2*® delivers a small amount of very tiny particles (called vapor-particles), projected as a dry vapor (very light fog) that stays suspended for over an hour and does not settle to the ground.
- The motor is designed to throw the vapor away from the machine at approximately 60 mph. The blower projects the vapor longer distances.
- *BIRDBUFFER Q2*® is automated. It operates with a digital control to produce vapor pulses with duration of from 0 seconds to 4:15 minutes at intervals of 0 seconds to 4:15 minutes during the time of expected bird activity.
- Now it is possible to cover large areas of open spaces. The vapor is invisible and non-obtrusive. It will give you “invisible protection, visible results®”.
- The fluid has a pleasant, grape-like fragrance.

3. Set of Equipment Supplied

Carefully unpack your **BIRDBUFFER Q2®** shipping container. Verify that you have received everything listed below. If something is missing or damaged please call your retailer or sales representative or call BIRDBUFFER LLC. Support at 1-866-557-4274 or 425-697-4274.

- **BIRDBUFFER Q2®**
- 24 hour Timer w/ multiple 15 min settings
- 6" adjustable wrench for drain plug.
- 2 X IEC power cords w/ 3 prong grounded outlet (must be grounded)
 - Cord to power the machine (plug into timer)
 - Cord to power the heater (heater must always be on—not timed)
- Instruction booklet

3.1 Optional Accessories

- Rejex-it® Fluid P/N 840000 (as ordered)
- 4 cables 38" long with locking snap hooks (optional at time of order)
- Nylon Soft cover (Grey) P/N 820052
- Drip pan P/N 820034 (holds 2 gallons)
- 3' X 5' Absorbent mat P/N 820057 (chemical resistant)
- Foam footing for rooftop protection P/N 820045
- Magnetic mount external heater P/N 820030 (below 25°F)
- Stand for rooftops P/N 820064
- Pole mount stand P/N 820062
- Wide pole mount stand for fan and Bird Buffer P/N820063

3.2 Tools Required For Job

- Stop watch or second hand
- Can of Windicator Vapor P/N 820011 (for air direction)
- Dated bottle of Rejex-It® (dated within 1 year, Fig. 2)
- Gloves (supplied with fluid)
- Ladder, drill, electrician for power

Please contact BIRDBUFFER LLC (1-866-557-4274) for more information on optional accessories.



Figure 1 Rejex-it® Fluid for **BIRDBUFFER Q2®**

4. Operating The *BIRDBUFFER Q2*®

4.1 Vapor Applications:

Definition: Vapor is the art of creating small, invisible particles in the air with a chemical fluid without droplets that fall, build up, or cause residue.

1. *BIRDBUFFER Q2*® delivers an invisible dry vapor which is released into the open atmosphere. The vapor (which may condense at opening of nozzle only) will stay suspended and not settle to the ground when air movement is available.
2. For vapor to be effective, the birds must be exposed to the vapor by flying through it. The fine vapor is designed to irritate birds only, affecting their eyes and mucous membranes without harm. Vapor works on most flying birds, dependent on their flying activity.
3. When birds preen (clean) themselves, it's an indication that they are not comfortable. When they finally fly, they breathe faster and will absorb just enough of the vapor to cause them to want to leave the area. It may take several exposures; therefore the timer is necessary for continued vapor in the air during their active periods during the day only. At night when birds are quiet and not active, vapor is not effective.
4. Some small birds like starlings & sparrows can become pests doing tremendous damage, and are very difficult to dissuade. These and other smaller birds need more concentration and may require other stimulus such as a BB Thermal Fogger. Three to five thermal treatments per week may be necessary in the beginning of the project. Contact BIRDBUFFER LLC for further instructions.
5. Usually 6 hours in the morning and 4 hours before sunset, or more concentration during lunch time, is sufficient each day. It takes time for birds to locate a new home and new feeding grounds. After the initial vapor operation most birds may return to see if the vapor has subsided. In subsequent vapor operations the number of birds returning will decrease, as they will be searching for new roosting areas or moving.
6. **Outdoor Applications:** It must be considered that a flock of birds will be exposed to the vapor, and therefore will effectively learn to locate new nesting/feeding areas together during the day. If a bird stays inside, they will all want to come in. When they leave, it translates to the other birds it is not a good location to roost or feed.
7. Be sure the birds can find an exit. Have it well lit or open for the birds to see clearly. It is important to expose as many birds as possible to the vapor. In subsequent vapor applications, the birds will leave much faster and it will take longer for them to return. Maintain vapor for birds in flight at all daytime hours.
8. Rejex-it® fog force **fluid** bird repellent is used without any dilution. It is made from food-grade liquid formulation, which does not mix with water. **Use full strength. DO NOT DILUTE.**
9. Vapor requires very little product. Use one (1) gallon of undiluted Rejex-it® **Fluid** each month. With one gallon Rejex-it® **Fluid** you can vaporize for an entire month over several acres with favorable wind. As birds leave, reduce "ON" time and use less fluid i.e., 1 gallon (3.8 Liters) = 6-8 wks.
10. Vapor operation after dark is not advised. Fluid is wasted and should only be used for owls. Birds cannot find other locations in the dark. Stimulate activity early in the morning.

4.2 Preparation for Bird Control

1. Good bird control requires the need to *clean* the area of all droppings, feathers, nests or other signs that birds have been in the area. This may include washing difficult to reach areas. Bird activity or “signs” are a signal to other birds that birds live here and are welcome. Removing the “welcome sign” is a very important step.
2. Use proper cleaning material as bacteria and other parasites are normally contained in the bird droppings, feathers and nests as well as 42 different diseases and lice. Wearing proper personal protective clothing, such as gloves, goggles, breathing masks and possibly boots, may be necessary. Airborne dust contains viruses and are not safe.
3. If painted surfaces have been deeply pitted and raw metal exposed due to the acidity of bird droppings, use proper care in repainting the area.
4. Once clean, this clean area will now become your starting point. The area of bird activity may necessitate re-directing, or increasing the timing of the unit if not strong enough. Beginning a treatment with the added impact of the Birdbuffer® TF, helps sensitize the birds for daily vapor to affect the flying birds.
5. Timing of the unit is critical. It will be necessary for you to have a secure constant power source that will not loose power. If the power is stopped, the timer will no longer be set to the correct time and may not turn on at the designated time periods. Reset the time on the 24 hour clock timer only. The cycle-timer does not need to change.
6. Proper daily operation of the unit will insure that new flocks or migrating birds will stay away. They will fly in and leave if they are not established birds. Established birds (or local birds) are birds that have been there a long time, were born there, or feed there regularly every year. It always takes longer to remove locals, and may require fogging in the early AM before sunrise.

4.3 Selecting the location using photos

1. Stand back facing your food court or building area and take a photograph to email to BirdBuffer at gary@birdbuffer.com. Use Windicator Fog-In-A-Can to show air direction.
2. Determine the direction of the wind and have an employee or someone pointing which way the wind is moving (see figure 2).



Figure 2

3. Look for a good location for the machine to rest solidly on the roof or optional stand, or hang from the trusses with the (optional) supplied cables. It must point the same direction of wind movement, and toward the area the birds fly, not rest. Vapor will travel beyond 100' to more areas as weeks go by. Higher locations sometimes can cover larger areas.
4. Place **BIRDBUFFER Q2®** away from the vicinity of the nuisance birds, keeping the output of the machine away from direct contact with electrical instruments and people, rubber equipment, electrical wires, painted surfaces or contact with close objects . A clear area of 50 ft.-100 ft. or more in front of the output is required.
5. Wind direction is key to best coverage. Point the machine *with* the wind direction assisting. Always allow plenty of air circulation with use of air currents to allow the vapor to expand and spread over a larger area. We recommend using Windicator Fog, flags or

some type of smoke to show the wind or air circulation to direct the vapor towards the birds' flying areas. Changing winds may help in covering more area. Normally 60% of the same wind direction is good. For extreme wind conditions, set the "ON" time higher, while reducing the "OFF" time.

4.4 See Direction of Air With Windicator

1. If you are using a can of the Windicator (See *Figure 4.*), spray the smoke into the air. See air flow changes, detect drafts, and photo the air currents.



Figure 3
Windicator Haze in a Can

2. Determine location of **BIRDBUFFER Q2®** to be upwind of bird pressure area.
3. Locate electrical power within 4' of machine. (pointing with wind direction).
4. Windicator lets you see which way the current carries the vapor from the **BIRDBUFFER Q2®** and how far it may travel.



Figure 4

4.5 Hang it or Mount it?

1. If trussing is under an overhang or an eave, it is easy to hang the **BIRDBUFFER Q2®** with hooks in the ceiling or around trussing, and then hang it with the cable hooks.
2. Point the output in the direction of the wind. Always go with the air flow for best coverage and largest distance.



Figure 5

Figure 6

Figure 7

3. Ceiling hooks (not included) may also be placed under the ceiling to hook the cables to. The cables simply snap/hook on to the feet of the machine for easy access. Hang the unit high enough to go over any other items, but low enough to service. Snap hooks easily hook on to extended feet (see figure 5)
4. If using optional mounting bracket, attach bracket to wall up or down for best position (figure 6 & 7).
5. Some food courts have shelves to set the unit on. Bolt it down and you're set to go. Be certain the vapor is going with the wind and can reach the entire area.
6. When air flow is 60-70% in one direction, you will get good vapor coverage.

4.6 Electrical Power Requirements

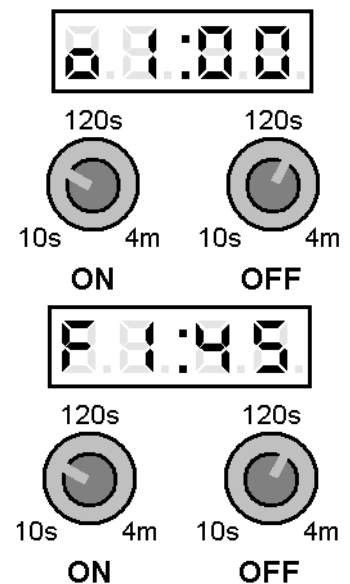
1. This machine requires a properly grounded 120VAC, 8amp (230VAC, 5 amp for overseas operation) circuit for operation.
2. Use a meter to verify a full 120VAC (or 230VAC) is being supplied. For temporary power, use an extension cord (but only temporarily). A grounded, minimum size 12 AWG 3 wire cord may be used for 100' or less. If over 100', hard wire with proper electrical double outlet (quad box if in cold areas needing a heater connection). Only use NEMA approved molded plugs (no cube taps or octopus plugs). **Do not use 2 wire extension cords or lamp cords.**
3. You may need an additional outlet for the heaters. This machine requires 8 amps of electricity. If the cord gets warm, you need to replace with a larger size cord.
4. If you have any doubts about the capacity or grounding of your existing circuits, consult a qualified electrician.
5. Do not add other equipment on this circuit besides the heaters.
6. Do not plug the heater cord into the 24 hour timer as it will not keep the machine warm when the timer is off. It must be plugged directly to power source that is always "On".
7. Protect all electrical connections from the weather. Use a cover for outdoor applications to keep all electrical cords out of water.
8. Use a GFCI connecting box with cover for outside applications.

4.7 Hooking up The *BIRDBUFFER Q2*®

1. Check for proper matching voltage outlet (section 4.5).
2. Plug one of the cords provided into the 24 hour timer.
3. A second cord is provided to plug in the heater unit for cold areas. It is not necessary in warm climates. This unit has a self regulating thermostatically controlled heating unit to keep the inside unit above 55°F at all times. Plug cord into IEC connector, pushing in completely. Male plug must be plugged directly into outlet. DO NOT PLUG HEATER UNIT INTO TIMER. Heater must ALWAYS have power.

4.8 Operating the *BIRDBUFFER Q2*®

1. After hanging or mounting the BirdBuffer Q2 and plugging it in, turn “on” the power switch, which will illuminate. You will notice the LED readout going through a check segment. When finished it will display a time setting with a small “0” on the left. This reflects the time setting for the machine to be on (which the machine will run through). You may adjust this setting while the machine is running to set longer or shorter “on” time.
2. The display will then go to a new time setting when the compressor shuts off and display an “F” on the left. This is for the “off” cycle. You may increase or decrease the “off” setting while the “F” is displayed.
3. The automated timer comes preset to 1 minute on and 1 minute, 45 seconds off. It will run this cycle from 6:00 am to 6:00 pm. This will be sufficient to cause most birds to leave the area in 2-4 weeks.
4. The left knob controls the length of time the compressor will stay “on” (0-to 4 min 15 sec). Run a test to be sure this is set to the time you want haze produced.
5. The right knob controls the length of time the compressor will be “off” (0-4 min 15 sec). *BIRDBUFFER Q2*® operates best with the cycle timer applying 2 minute pulses for 45 minutes each hour of daytime only.



Recommended Settings for Work/ Public Environment

	ON	OFF	A.M. HOURS	P.M. HOURS	FLUID/mo
Small Area >10,000 sq. ft.	30 sec.	3 min.	45 m ON 15m OFF	45 m ON 15 m OFF	2 qts.
Medium Area >20,000 sq. ft.	45 sec.	2 min.	55 m ON 15 m OFF	45 m ON 15 m OFF	4 qts.
Large Area >50,000 sq. ft.	2 min.	2 min.	45m ON 15m OFF	45m ON 15m OFF	4 qts./4 wks
Open Area ½ acre	2 min.	2 min.	45m ON 15m OFF	ON	6 qts./4 wks
Open Area 1 acre	2 min.	2 min.	ON.	ON.	7 qts.
Open Area 2 acres	2 min.	1.5 min.	ON.	ON.	7 qts.
MORE	2 min.	1 min.	ON	ON	8 qts.

6. It is ok to run this machine empty. No harm will come from testing the machine while empty or if it runs out of fluid.



CAUTION: Risk of eye irritation. Wear goggles when pouring fluid.

Grape Fluid causes acute but temporary irritation if it comes in direct contact with the eyes. Always use protective eyewear when operating the generator up close. If fluid gets into the eyes, rinse thoroughly with water for 15-20 minutes.

7. If all is working as directed, you are now ready to place the fluid inside the machine. **IMPORTANT:** Use only Rejex-it® fluid dated within 1 year. Pour 1 gallon of **Rejex-it® Fluid** into fill spout. Use full strength. **With fill cover open**, notice any leaking from the drain plug. Use the provided wrench to tighten the plug. Unit will work with ½ quart; it does not need to be full (½ qt. could last 64 hrs. of constant vapor). Use of any other fluids will void your warranty. Only add fluid when empty. Keeping fluid fresh promotes highest bird control response.
8. Test the machine again to see the vapor coming from the machine. If unable to see vapor output, place a light source behind vapor and look into the light, through the vapor. You should smell the scent. It should not be strong inside any room.
9. Next, unplug the machine power cord (bottom cord) and plug this cord into the front of the 24 hour timer. Plug in the timer to the power outlet.
10. Rotate the timer's dial clockwise until the pointer on the face of the dial points to the current time of day. Note: daytime hours (from 6:30AM to 6:30PM) are highlighted with a black background.

11. Set **TIMER / MANUAL** switch to the **TIMER** position. Make sure to push switch fully to **TIMER** position. You will feel the switch snap into place.

NOTE: It is important that you make sure the **TIMER / MANUAL** switch is in the **TIMER** position. The **MANUAL** position will leave the power to the device “ON” all of the time, even though the timer's dial will still show the current time of day.

12. The timer comes preset to a standard operating schedule. You may need to adjust the timer to operate for longer or shorter intervals, using these instructions. Set it to the proper time of day, keeping in mind any change of daylight savings. In case of power failure; reset the time of day as explained in step 10.
13. Moving the tiny sensors to the outside turns on the machine. If bird pressure is highest at noon, then increase to all “ON” during and before that time. On slower periods, have the unit turn off for 15 minutes each hour to save fluid and fool the birds.



Figure 8- shows timer set to turn appliance ON at 10 AM and OFF at 2 PM. Notice ALL segments between 10 PM and 2 AM have been pushed out. Current time is 8:00 AM.

4.9 Vapor Fluid Storage

1. Store vapor fluid only in the original container apart from pesticides, fertilizers, food or feed that may cause cross-contamination from odor.
2. 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.



#820064
Roof Stand
3' x 4' x 20"H
Powder Coated
bolt on stand

When Mounting on a Roof:

4.10 Roof Protection

1. Use the Cover #820052 for outdoor use, the Drip Pan #820034, and the chemical Absorbent Mat #820057 to protect the roof surface from the legs and any chemical spills.
2. Rooftop Protective Feet #820045 hold the Bird Buffer Q2 up about 6" on a larger base, soft material to protect the roof and give height to stay out of snow.

4.11 Use of additional Magnetic Heater

1. When the temperature drops below 32° F, the heater built in to the Bird Buffer Q2 cannot maintain the warmth necessary. Attach the Magnetic Heater #820030 to the bottom of the front of the machine (if hanging or accessible) or the front fill hatch where the tank is exposed to the cold.
2. When filling you may need to remove it temporarily, then replace when full and close the hatch.



4.12 Cover for outside #820052

1. Use of the Bird Buffer Q2 outdoors requires a nylon or metal cover to protect it from rain and snow. After setting the timer and testing the unit, simply slide the cover over the top of the unit and set down on the legs.
2. Using the Bird Buffer® Q2 without a cover outdoors will void the warranty and could possibly damage the electronics as well as motors.

4.13 Summary

The *BIRDBUFFER Q2*® produces a fine vapor using Rejex-It® Fluid Bird Repellant. The vapor is very repellent to birds but non-harmful to humans, animals, or even the birds. After several exposures to the vapor, birds generally leave the area. The vapor is not harmful to target or non-target birds or other animals. The repellent formulation is based on Methyl Anthranilate, a constituent of concord grapes. Methyl Anthranilate, or MA, has been used by the food and drug industry for more than forty years to flavor candy, sodas, gums, and drugs; and it is on the U.S. Food & Drug Administration's "Generally Recognized as Safe" (GRAS) list. A sweet grape scent may be present up to 500' away. This is normal.

5. Frequently Asked Questions

5.1 How Does Vapor Work?

To be effective, the birds must be exposed to the vapor. The fine nano-particles irritate their eyes and mucous membranes with minimum risks to them. Vapor works on all active birds. They must breathe the vapor in order for it to be effective. It may take several exposures to the vapor for the birds to learn to leave the area. Smaller birds respond slower and may need higher concentrations to activate them to fly more.

5.2 Do I Have to Dilute the Vapor Fluid?

Rejex-it® Bird Repellent is used without any dilution. It is a natural grape concentration formulation which does not mix with water. **USE FULL STRENGTH.** Check date to be certain product is fresh within one year.

5.3 How Much Do I Need?

Vapor requires very little product. Generally 1 gallon lasts 1 month when the cycle-timer and 24 hour clock are set to work as instructed. Longer duration settings may use more fluid. Check usage more often.

5.4 How Often Do You Have To Vapor?

Usually during 4 hours after sunrise and 4 hours before sunset of vapor applications are sufficient to repel established flocks of birds from the treated area. It takes time for the birds to find a new home and new feeding grounds. Nesting birds will continue to nest until younglings are ready to fly. New flocks will not join them while *BIRDBUFFER Q2®* is working.

5.5 What Is The Best Time To Vapor?

Apply vapor in the area of bird flight during their highest activity. If birds are present be certain the birds have an exit and can leave the area. For best repellent effect, the birds must fly through an established vapor. For best results, have the vapor present when the largest amount of flying activity will take place, normally after dawn and before dusk.

6. Service and Maintenance

Care of your *BIRDBUFFER®* will give you years of service. Note: cleaning your unit is going to pay off in constant good performance. Your *BIRDBUFFER Q2®* will provide years of reliable service with proper care and maintenance.

1. Each month, take out the filter in the door and check vents outside in order to remove accumulated dust and dirt. Keep the vents clear and wash the filter with soap and water, then replace. If you are using the *BIRDBUFFER Q2®* in a high dust area, you will need to change the filter (or wash it) more frequently. You may need to order additional dust covers to keep clean. A separate finer dust cover is available for fine dust.
2. Check in the fluid tank for dirt or debris. Clear fluid should be visible. Allow the tank to run completely dry before adding new fluid. This keeps fresh fluid in the tank and keeps it fresh for best bird control. Do not top off as this dilutes the freshness of the fluid.
3. Check the drain plug for leakage. If you notice any leaking from the drain plug, use the provided wrench to tighten the plug. After tightening, observe to make sure leaking has stopped.
4. Check the electrical connections to be certain they are not becoming brittle or weak. Push all connections in to be certain all are not loose.
5. Adjust the timer for your area and bird pressure. Use higher outputs when first starting; then adjust downward as the birds leave the area. You will be able to shorten the "ON" time and lengthen the "OFF" time.

6. Be certain to change the clocks for daylight savings time and adjustment of daylight hours when the birds are active. Coming on 30 minutes before sunrise and going off 30 minutes after sunset is the best setting. If the birds are active, use more time. After dark it is not advised to waste fluid as the birds cannot relocate in the dark.
7. Do not transport or ship the *BIRDBUFFER*® with fluid in the tank. To drain the tank, refer to the instructions in the section Shipping Preparation (11). This can void your warranty.

7. Troubleshooting

7.1 If the fuse blows, the indicator light on power switch will not illuminate

- If vapor stops working, first check fuse located under the plug. Remove the plug. With a screwdriver, slide drawer straight out (completely removing drawer); the fuse is located on the end. If blown, a replacement fuse is located inside the box next to it. Use old fuse to push out new fuse and snap into position.
Note: Replace only with the spare provided or an exact equivalent: 5 x 20mm 8A 250V time-lag.
- Inadequate extension cords can result in low line voltage, which causes the fuse to blow. Check cords for proper size and condition (see section 4.5). Cord must be 12AWG 3 wire if 100'. Replace cord with heavier duty if warm. Check to see circuit of outlet is not overloaded with other equipment.

7.2 If the compressor starts to work, then stops and pops the fuse

- You may have a cold unit. Below 50° F is too cold and it will not start due to sluggish lubricant in the pump. Replace the fuse (see section 9.1 above) and let the unit warm up in a warmer environment or be certain the heater is working. Once it is warmed up, try again.
- Add the thermostatically controlled magnetic heater to the front of the unit for colder weather than 35° with the internal heater. This is an easy add on. Just plug it in.

7.3 If there is no vapor

- If compressor is running, but no vapor is coming out, be sure you have used the correct vapor fluid and fluid is inside.
- Check the fluid level to be certain there is fluid in the tank. Fill as necessary
- Also, ***Water-based vapor fluid causes clogging of the tiny arteries and will cause the unit to stop working.*** Replacement of tank may be necessary if this occurs.

7.4 If you notice Rejex-It fluid leaking from the drain plug

- Use the provided adjustable wrench to tighten the plug. After tightening, observe to make sure leaking has stopped.

7.5 If the birds have stopped responding,

- Check the clock/timer to see the time is correct
- Check the opening on the output to see if anything is blocking it
- Check the "ON" times to be certain the digital display is showing the correct times.
- Check the Clock/timer to see the 15 min slots are "ON" 45 mins. each hour
- Check the fluid: open the fill cap and inspect the inside tank with a flashlight for clean
- Note: walking birds do not respond. You must get them flying.

8. Specifications

The BIRDBUFFER Q2® developed and patented by BIRDBUFFER LLC Everett, WA USA P/N 800045 w/htr 120vac P/N 800046 w/htr 230vac	
Weight	73 lbs / 33.1 kg
Shipping Weight	93 lbs / 43 kg
Size	20.5" x 12.25" x 22.25" (52cm x 31cm x 56.5cm)
Shipping Box Size	25" x 25" x 25" (63.5 cm x 63.5 cm x 63.5 cm)
Outlet size	2" x 2".
Fluid	*Rejex-It® Fluid (must be dated fresh) BIRDBUFFER LLC Label
Type of Vapor	MA, Grape like scent, even, transparent, long-lasting
Fluid Consumption	½ oz (30ml) per ½ hour or 1 qt (0.95 liter) per 32 hours
Output speed	60mph velocity
Warm Up Time	None; with heater 3 mins.
Operating Temperature	35°F – 104°F
Continuous Vapor	Can run continuously, recommend use with cycle timer & 24 hr timer
Duration indoors	Vapor lasts 2 - 3 hours per 30-45 sec output use
Digital Control	Included: adjusts 0-4 min 15 sec both "on " and "off"
24 hr. Timer	Included: "On" and "Off" settings
Fuse 120 VAC	5x20mm:8A / 250vac time-lag (P/N 600257 for 110vac units)
230 VAC	5x20mm 5A / 250vac time lag
Heater Fuse	5 x 20mm, 2A, 250vac P/N 704051 (good to 35°F)
Electrical Supply	120 VAC, 8amp, 60 Hz P/N 800045 w/htr 120vac 230 VAC, 5amp, 50 hz P/N 800046 w/htr 230vac
Electrical Supply w/Heater	120-230 VAC, 200 watt fused connection
Limited Warranty	One year limited warranty on tank and compressor, 90 days on electrical components
Accessories not included:	Floor mat for chemicals Thermostatic magnetic heater for colder than 35° Drip pan for catching pouring fluids Thermal fogger for smaller birds Rejex-It Fluid® Fog Force
Accessories included:	2 x power cords (optional) 4 x hanging cables with snap hooks 24 Hour Timer
Fluid:	Rejex-It® Fluid is a registered trademark of Ceannard, Inc

9. Shipping Preparation

1. If shipping by a common carrier, **you must empty all fluid from the unit** by draining. Remove the cover hatch over the fluid tank fill. Place a container under the drain plug, then remove plug to allow fluid to drain out. Gently tilt the machine upward. This will allow all of the fluid to drain from the unit. Do not tip backwards when full of fluid. This will cause fluid to fill the vaporization head and causes damage.
2. Reusing this fluid requires filtering through a nylon filter. Always check used fluid for clarity and date. Never use old or outdated fluid. If the fluid is dark, discard according to directions.
3. Return unit upright and wipe up all spills or drips.
4. Put unit in a plastic bag to prevent other dripping in box while being shipped. Standard carriers may decide not to deliver the box if a leak is detected. Always send an MSDS sheet with the fluid or machine that has touched the fluid for carriers to have this information and not discard the machine.
5. Discard fluids according to local instructions as listed on the MSDS sheet or return to the original marked container.
6. Mount unit on a plywood base and attach using bolts or screws. Surround the unit with heavy duty cardboard boxes with at least 2" space. Set the machine inside the box in the upright position. Never ship the unit on its back.
7. If you are returning the unit for repair, follow the steps on the RMA authorization under warranty.

10. 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 one year from the date of purchase shown on the sales receipt. This warranty covers parts and labor providing the product is returned to BIRDBUFFER LLC 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.

Please have the following information available when you call:

Model and Serial Number

Where and when the product was purchased

Nature of the problem

Subject to the following conditions, BIRDBUFFER LLC will repair any defect or fault in the unit if it is caused by a proven factory defect within one year 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 will be repaired or replaced (manufacturer's choice) with correct parts. Faulty units must be shipped to BIRDBUFFER LLC at customer's expense. RMA # must come with the unit. A slight drip is not covered under warranty or replacement.
2. 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 LLC. 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 full of fluid.
3. Freight costs to and from BIRDBUFFER LLC 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 30 days of receipt, BIRDBUFFER LLC will cover the cost of returning the repaired unit to the customer.
4. Limited warranty services do not cause an extension of the limited warranty time or the start of a new limited warranty time. The warranty of replaced parts ends with the limited warranty time of the whole unit.

5. If a defect/fault can not be repaired by us in a satisfactory time, we will, within 30 days after sale of the unit, either:

 Replace the whole unit for free or take back the whole unit and refund the purchase price.
6. Further claims, especially for damages, losses etc. outside the unit are excluded.
7. Your limited warranty coverage is based on completion of the warranty card and returning it with your proof of purchase within 30 days of purchase.

Your limited warranty coverage is based on completion of the warranty card and returning it with your proof of purchase within 30 days of purchase. If you should send the unit for service, do not forget to remove any liquid from the fluid tank, and place unit in original box. Obtain your RMA# by calling BIRDBUFFER LLC. Payment arrangements for repair must be made before receiving RMA # in case unit is not covered under Limited Warranty.

Send unit to:

BIRDBUFFER LLC
RMA # XXXXXXXX
1420 80th ST. SW
Everett, WA 98203
Tel: (866) 557-4274 or (425) 697-4274
Fax: (425) 776-5129
E-mail: info@birdbuffer.com
www.birdbuffer.com

Part numbers and descriptions for Bird Buffer products. Includes machines, accessories, and replacement parts.

	Description
Machines	
80045	BirdBuffer® Q2 w/heater, 24 hour timer, cycle-timer 120VAC (heater necessary when operating below 55 degrees F)
800046	BirdBuffer® Q2 w/heater, 24 hour timer, cycle-timer 230VAC (heater necessary when operating below 12 degrees C)
800055	Double Output BirdBuffer® w/ heater, w/ 24 hour timer, cycle-timer 120VAC
800056	Double Output BirdBuffer® w/ heater, w/ 24 hour timer, cycle-timer 230VAC
800060	BirdBuffer® Jr. Spray System- w/ CO2
800050	BirdBuffer® TF Quiet Thermal Fogger- (Includes 1 gallon Rejex-It Fluid)
Fans / Tubing Assemblies (not required for large area coverage)	
810000	Tube Distribution Fan - 3 spd, .6hp rotational, 3250 rpm. Incl: hang bracket and hanging harness w/safety cable (covers over 550,000 cu ft for 18" tubing)
810020	Tube Assembly w/Fan 18" x 200' Includes additional 18" fan bracket, hanging harness with safety cable and ducting with defined custom outlets (covers over 800,000 cu ft) 120' x 200' x 40' h
810030	Tubing Assembly - Includes: 18" tubing, brackets and hanging hardware, per foot
810160	Hurricane II Fan - 1 hp (3 speed) black w/adjustable hanging bracket (covers over 800,000 cu ft)
Accessories for all models	
820051	BirdBuffer® Q2 Outdoor Hard Cover- Sheet Metal for Q2 only
820052	BirdBuffer® Q2 Outdoor Soft Cover- Gray Coated Nylon for Q2 only
820011	Windicator Smoke-in-a-Can
	Box of 48 - Free Freight
820030	Thermostatically Controlled Magnetic Mount Heater. 120v 200w
820034	Drip Pan
820040	24hr Timer
820045	Foam Footing For Rooftop Installation
820057	3' X 5' Absorbent Mat for Roof Top Protection
820060	Hanging Harness - over 38"-12' (4 Cables w/ Locking Hooks)
820062	Pole Mounting Bracket - attaches BirdBuffer® to wall or maximum 8" pole
820063	Pole Mounting Bracket - 32" x 40" plywood, attaches BirdBuffer® & Hurricane II fan to platform, may be mounted on wall or pole

820064	Roof Stand - freestanding, powdercoated steel
820070	External Air Filter Cover for BirdBuffer® Q2
Fluid	
840000	Rejex-It Fluid® - Available by the gallon, case of 4 gallons, or 55 gallon drum
Replacement Parts	
830345	BirdBuffer PCB w/ Timer 120v
830267	Power Cord - Down Angle 18awg 7'6" (120 v) For Q2
830046	Foam Replacement Air Filter For Q2 (6"x8-1/4"x1/2")
830052	2' Applicator Extension Nozzle
830026	Drain Plug with gasket for Q2
830037	Nylon Fill Cap for Q2
830038	6" Crescent wrench
830148	Safety Cable, 3/32 x 36" ea. (4 Cables w/ Locking Hooks)
830057	Fuses - 5mm x 20mm, 8Amp, 250VAC, Slow Blow (5 / pack)
830051	Heater Fuses - 5mm x 20mm, 2amp, 250VAC (5 / pack)
830264	Power Cord Euro Plug - 3' (230 v)