



Guardian Ice

Ice Machine Treatment



Table of Contents

SAFETY PRECAUTIONS	3
WARNING	3
INSTALLATION INSTRUCTIONS	4
TROUBLE SHOOTING GUIDE	7
LIMITED WARRANTY	8
LIMITED WARRANTY COMMON QUESTIONS.....	9
WARRANTY REQUEST FORM.....	11

SAFETY PRECAUTIONS

The advanced Oxidation gases produced by the **Guardian Ice** are powerful oxidizer and must be used cautiously. All instructions, warnings and safety precautions set forth in this manual must be followed. The manufacturer will not be held liable for the consequences of any actions by the purchaser and/or applicator while using or applying the **Guardian Ice**. The following safety precautions should be followed:

- **DO NOT** operate the unit until thoroughly familiar with this Operations Manual.
- **DO NOT** look into or at the blue ultraviolet light.
- **DO NOT** use in an overheated or explosive atmosphere.

**NOTE: DO NOT USE UNIT IF POWER CORD IS DAMAGED.
PLUG MUST BE ACCESSIBLE AT ALL TIMES.**

WARNING

ALL SAFETY PRECAUTIONS DESCRIBED IN THIS MANUAL MUST BE FOLLOWED, ALONG WITH COMMON SENSE. DO NOT ATTEMPT TO OPERATE THE GUARDIAN AIR ICE WITHOUT FIRST READING AND UNDERSTANDING ALL INFORMATION PROVIDED IN THIS MANUAL.

Due to the variety of operational conditions and applications for these systems, the user, through his or her own analysis and testing, is solely responsible for making the final selection as to the type of system, and assuring that all performance, safety and warning requirements of the application are met.

1. Do not look directly into the unit, or directly at the blue ultraviolet (UV) light as this may cause permanent eye damage, or burns to your eyes or skin.
2. Do not use in an overheated (over 120° F.) or an explosive atmosphere.
3. Always use a GFI protected outlet in damp or wet locations.

INSTALLATION INSTRUCTIONS

The Guardian Ice should be protected from extreme temperatures for longer product life. The Guardian Ice will operate best in dry, cool environments.

Manufacturer's Liability is limited to the operation of this equipment as per the Limited Warranty (see back of this manual). The Purchaser assumes all responsibility for any damages, which results from operation or negligence.

Installation

The Guardian Ice unit is supplied with a switching power supply that will accept voltage from 110 to 240 volts. In accordance with the specifications of the National Electrical Code and for safety measures, a three-prong grounding plug is standard to the equipment. Do not, under any circumstances cut, remove or replace the electrical cord. RGF recommends use a GFI outlet.

Determine a suitable location to mount bracket. Use appropriate fasteners to securely mount bracket to wall near ice machine. Slide unit down onto tab on bracket. Install thumb screws at bottom of unit on both sides. Plug transformer into a standard electrical outlet.



Wall bracket



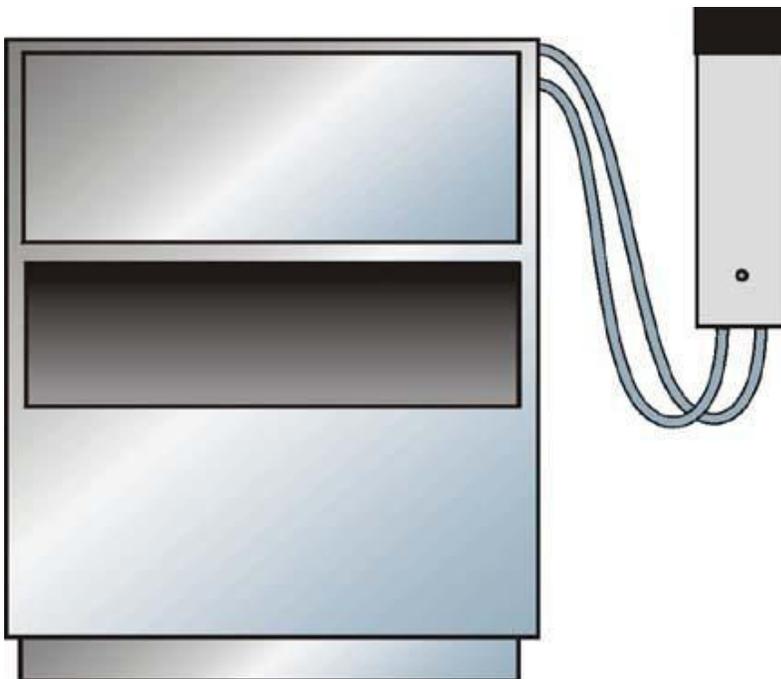
Tab of wall bracket slides into back of unit



Thumb screws

Connect the provided 3/4" I.D., 1" O.D. flexible hose to the ice machine unit outlets. Drilling a 1-1/16" hole into the ice machine is required. Be sure that there are no wires or plumbing on other side of drill area. RGF recommends taping a plastic bag to the inside of ice machine in the area of the penetrations to catch any metal or plastic particles. Caution must be taken to not penetrate the ice bin wall. Doing so may void factory warranty. Penetrations should be made through the back wall of unit. Once the penetration has been made one hose can be routed to enter the ice bin through the floor of the ice head compartment. After installation is complete RGF recommends the ice bin is emptied and cleaned to insure no contaminants are present.

Turn equipment on. Equipment is designed to run 24 hours per day.



Typical Installation

PHI CELL REPLACEMENT

ALWAYS BE SURE TO DISCONNECT POWER FROM UNIT BEFORE ATTEMPTING TO SERVICE UNIT

It is suggested the PHI Cell be replaced after 3 years of service to maintain peak performance.

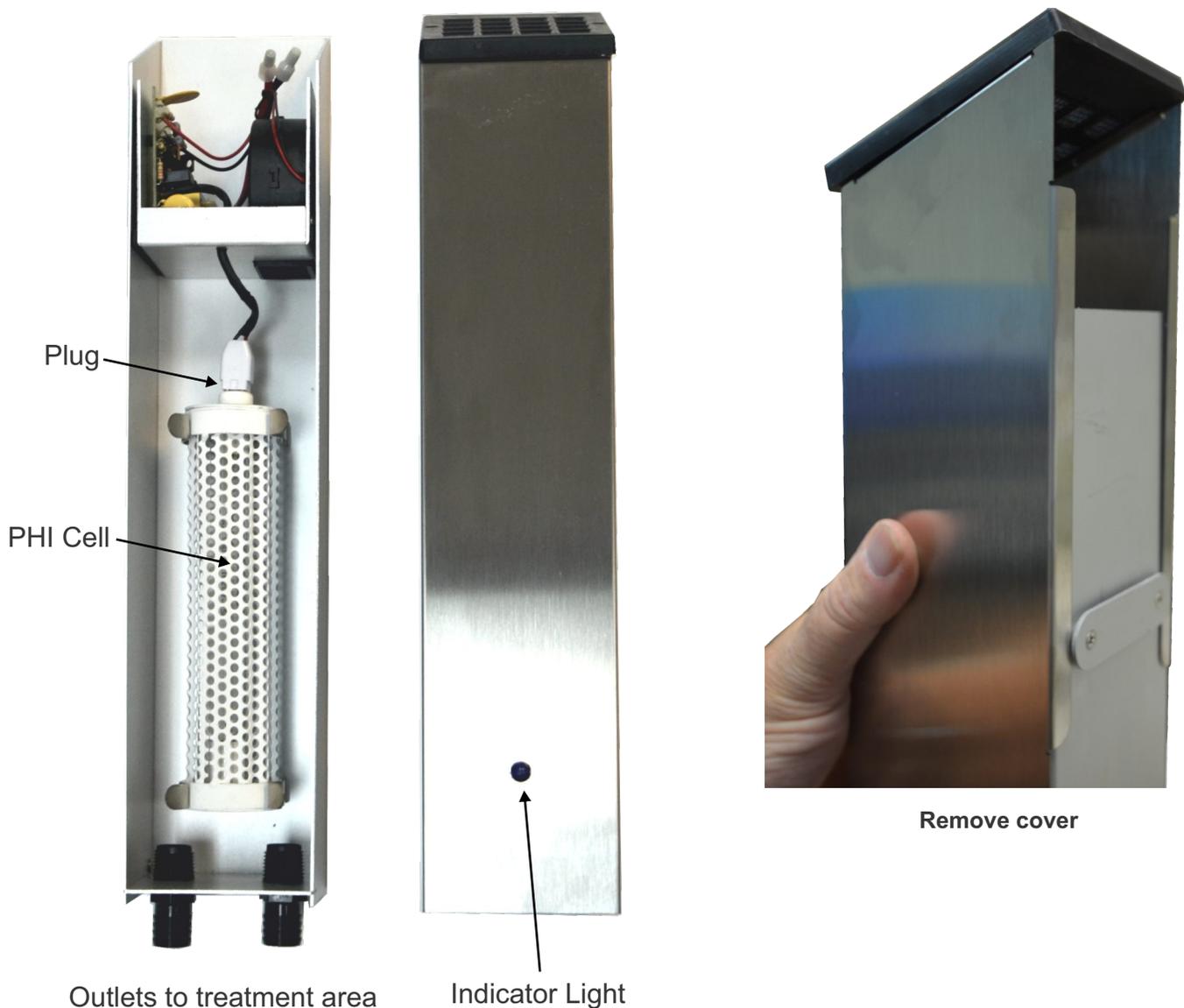
To replace the PHI Cell loosen the two (2) thumb screws on each side of bottom of unit.

Slide cover up and off of unit chassis.

Firmly grasp chassis of unit and remove PHI Cell from clips.

Remove plug from PHI Cell and replace with new cell.

Replace cover and tighten thumbscrews.



SPARE PARTS

Item	Qty	Part Number
Replacement PHI Cell	1	PHIC-9A
Additional Hose 6'	2	HF-098

Guardian Air Ice
TROUBLE SHOOTING GUIDE

SYMPTOM	PROBABLE CAUSE	SOLUTION
MACHINE NOT OPERATING	PLUG NOT IN RECEPTACLE	RE-INSERT PLUG
	“HOUSE” POWER FUSE OR CIRCUIT BREAKER TRIPPED	REPLACE “HOUSE” FUSE OR RESET CIRCUIT BREAKER
LOW OR NO GAS OUTPUT	LOOSE ELECTRICAL CONNECTION	RETURN TO FACTORY FOR REPAIR
	FAN MOTOR NOT RUNNING	RETURN TO FACTORY FOR REPAIR
	BROKEN OR INOPERATIVE PHI CELL	REPLACE
	BLOCKED AIR PASSAGE	REMOVE OBSTRUCTION FROM AIR INTAKE – CLEAN AIR FILTER

Guardian Ice LIMITED WARRANTY

This warranty supersedes and replaces any warranty statements made orally by the Sales Person, Distributor, or Dealer, or contained within the written instructions or other Brochures or informational documents in relation to this product.

The Manufacturer warrants the new **Guardian Ice** equipment to be free from defects in material and workmanship under the normal use and service when operated and maintained in strict accordance with the manufacturer's instructions, for a period of twenty four (24) months from the date of receipt of equipment. **(For international orders twelve (12 months parts only. Shipping not included.)**

This Warranty is void if sealed **Guardian Ice** is opened or tampered with.

The Manufacturer's obligation under this warranty is limited to repairing or replacing any part found to its satisfaction to be so defective. This warranty does not cover parts damaged by action, humidity, moisture, or wear caused by abrasive materials, nor does it cover any damage resulting from misuse, abuse, accident, neglect, or any use other than its intended use, or from improper operation, maintenance, installation, modification or adjustments.

This warranty does not cover parts or equipment used with the **Guardian Ice** that are not made by The Manufacturer. These items are covered by warranties of the respective manufacturer. The Manufacturer will process the claim and install the part.

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF

To obtain warranty service and return authorization number, contact your supplier.

Include a copy of your Bill of Sale, Invoice or Receipt of Purchase, with an explanation of the problem or defect.

Hg- LAMP CONTAINS MERCURY Manage in accord with disposal laws. See: www.lamprecycle.org

LIMITED WARRANTY COMMON QUESTIONS

How long is the warranty?

- For two (2) years from initial start up.

How do I contact the Manufacturer about my warranty, a question or complaint?

- Your local Sales Representative may answer a question or complaint.
- If they cannot answer the warranty question or complaint, you can contact your local supplier and request the warranty department.

Are there any parts not covered by this warranty (that the manufacturer will not repair or replace)?

- Yes. Parts damaged by decomposition from chemical action, humidity, moisture, or wear caused by abrasive materials. It does not cover damage resulting from misuse, abuse, or any other use other than its intended use. This warranty does not cover accident, neglect, or from improper operation, maintenance, installation, modification or adjustments.
- Parts not made by Manufacturer. However your supplier will process the claim with the other manufacturer.

What do I do in the event the equipment is damaged in shipping?

- Immediately upon receipt of the unit, you as the purchaser should inspect the unit and test it to make sure it is operational.
- If there is visible damage to the equipment:
 1. Notify the carrier shipping office immediately and write on the Bill of Lading the visible damage or part(s), which are broken or missing.
 2. Call your local supplier immediately to specify the damage.
 3. The supplier should refund the unit at the suppliers cost.
 4. Your unit will be replaced or repaired as soon as possible.

What if I find damage to the equipment after the carrier leaves?

- Claims for concealed shipping damage must be reported to the carrier and a copy sent to your supplier in writing via telefax or certified U.S. Mail within fifteen (15) days from the date of delivery.

Note: Please take note that the carrier will not cover the damages if these steps are not adhered to.

Steps to take when you have determined that your equipment is malfunctioning within the warranty period.

- Call your distributor and notify them of the problem or malfunction. (It may be a simple problem or oversight with a simple solution – See Trouble Shooting Chart).
- If it is determined that a part is malfunctioning due to a defect, ship unit to your supplier or call supplier for other means of return. The Equipment Warranty Form should be completed and included.
- Your supplier will repair or exchange the defective unit with a working replacement.

Things I should do to avoid problems or injuries when running my *GUARDIAN Ice* Equipment.

- Read thoroughly and understand all Operating Instructions, Warnings and Precautions before commencing application.
- Place unit in a dry area when possible.

What service can I expect from my distributor?

- Your distributor will assist you with any problems or questions you may have.
- Sell you optional parts or equipment as needed.
- Assist you with any warranty problems and provide you with a Warranty Request Form (which is required when sending a warranty unit back to the manufacturer for repair or replacement).

**WARRANTY REQUEST FORM
(INCOMPLETE FORMS WILL NOT BE PROCESSED!)**

RETURN AUTHORIZATION NO. _____

CUSTOMER:

NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIPCODE _____

CONTACT _____ PHONE _____ FAX _____

DISTRIBUTOR:

NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIPCODE _____

CONTACT _____ PHONE _____ FAX _____

UNIT:

MODEL # _____

SERIAL # _____

INVOICE # _____

DATE OF PURCHASE _____

SERIAL # FOR EXCHANGE UNIT: _____

ITEM(S) SUBMITTED FOR WARRANTY:

1) _____

2) _____

REASON(S) FOR RETURN:

(FOR MANUFACTURER USE ONLY)

DATE ITEM(S) RECEIVED: _____

RECEIVED BY: _____

REPLACEMENT UNIT OR PART SENT

COMMENTS: _____

NOTE: THIS COMPLETED FORM MUST ACCOMPANY ALL RETURNED ITEMS.

SHIP TO:

RGF Environmental Group, Inc.
ATTN: CUSTOMER SERVICE DEPARTMENT
1101 WEST 13TH STREET
RIVIERA BEACH, FL 33404 USA

Tel: (561) 848-1826 • (800) 842-7771 • Fax: (561) 848-1160

About RGF



Customer Service Award.

Innovation

Since 1985 RGF has maintained a steady flow of award winning innovative purification products. RGF has been awarded national recognition as a recipient of the Inc./MCI



design, and environmental law. Our 3D printers give us rapid design ability.

Design

Our R&D technical staff consists of the following specialists: Advanced oxidation, biological, mechanical, chemical, water treatment engineering, electrical, nuclear, fabrication,

Patented Technology

RGF has been a leader in patented Environmental sanitation / purification technology and products for air, food and water.



Lab

RGF maintains four fully equipped labs. R&D - Mechanical, Electrical (UL approved), R&D Food and a wet lab.



Manufacturing

RGF is a fully vertical manufacturer. Our 100,000 square foot facility has electrical/mechanical assembly, injection molding, assembly line, custom engineering, welding, painting, mold

making, machining and marine fabrication



RGF manufactures over 500 environmental products

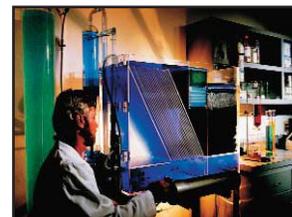
Validation

RGF first developed its Advanced Oxidation Technology over 20 years ago. Over 1 million RGF Cells are in use around the world. RGF has licensed its technology to many Fortune 500 companies for use in the medical, food, military, residential, commercial, marine, hospitality and government, etc.



R & D

RGF maintains a Research and Development staff that is involved in EPA / USDA / FDA / EPRI and University Environmental Studies. Our staff continuously develops system improvements and new products. RGF personnel have been published in over 70 national journals and textbooks.



Custom Applications & Components

RGF's award winning engineering team custom designs systems for air, food, water and marine purification technology and products



Advanced Oxidation

RGF has been a leader in Advanced Oxidation technology since 1985. We developed an advanced catalytic oxidation system for total organic oxidation. Our Photohydroionization process has been approved by the USDA / FDA / FSIS for food processing and air purification systems.



Envision

The "World's First Environmentally Friendly Mega Yacht" serves as a working showroom for RGF's Advanced Oxidation products. Envision uses and displays over 50 RGF products.



RGF[®]
ENVIRONMENTAL GROUP, INC.

1101 West 13th Street (Port of Palm Beach Enterprise Zone)
Riviera Beach, Florida 33404

800 842-7771 • 561 848-1826 • Fax 561 848-9454 • www.rgf.com