



INSTALLATION, OPERATION & MAINTENANCE

INFECTION CONTROL FOR ICE MACHINES



ICE



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Congratulations on purchasing a LoBact ICE Product

Thank you for purchasing a LoBact ICE product and we hope you will have many years of trouble-free service from this product.

Lobact ICE utilises advanced cleaning technology developed by the University of Manchester, UK. Unlike most products in the marketplace which simply mask the problem, LoBact ICE act by effectively destroying microbes, helping to dramatically improve quality, leaving your ICE machine clean.

Before you start to enjoy the benefits of your LoBact ICE product, please read this manual carefully and in particular the Safety Precautions section. Once you have read the information, please keep this manual safe for future reference.

If you have any questions, please do not hesitate to contact LoBact we will be only too happy to help,

Thank you,

The LoBactAir Team

Section 1: Safety Instructions & Warnings

The manufacturer does not accept any liability for the damage to the product or personal injury caused by non-observance of the safety instructions in this manual, or by negligence during installations, use or maintenance.

Everyone working on or with the product must be familiar with the contents of this manual.

Always keep the manual with the product.

The user of the product is fully responsible for observing local safety instructions and regulations.

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1.1 General Safety Precautions

The unit is intended for commercial use only.

This air cleaner is built to CE standards and must be operated in strict accordance to this manual.

This air cleaner is designed for indoor installation only and must be protected from excess moisture.

Do not install in explosion risk areas.

Always ensure that good access is provided for system maintenance.

Do not remove cover during operation.

Do not place the unit, plug or mains cable in direct contact with any liquids.

As with any electrical equipment, do not let the device be manipulated by children and always ensure adequate supervision if operated in the vicinity of children or pets.

Do not place near flammable, explosive or toxic products. Do not operate near open flames, fires or heating appliances.

Do not open, or disassemble the unit other than as specified in the cleaning instructions under Care and Maintenance.

Do not touch any internal components as this may result in an electrical shock.

Do not touch the fan (where installed), or insert any item through the fan grills.

Do not insert any objects into the unit as this may result in an electric shock.

Do not operate with pre-filter or covers removed.

Do not operate if mains cable or plug is damaged.

Do not operate if unit malfunctions.

Do not operate if unit has been dropped or is damaged. If the plug or mains cable are damaged or require replacement, this must be undertaken by your Plasma Clean representative or a similarly qualified individual.

1.2 Working Safely with Ozone

⚠ Exposure limit value: 0.1PPM (V/V) 8 hour weighted average according to EH 38 (UK).

⚠ Ozone is an irritant and a powerful oxidising agent.

⚠ Ozone has a half-life of around 20 minutes.

⚠ In an emergency use an activated carbon filter breathing mask to gain access to the area.

The UK Health and Safety Executive (HSE) have issued Health and Safety Guidelines concerning ozone:

EH38 'Ozone: health hazards and precautionary measures'
EH40 'Occupational Exposure Limits'

A Materials Safety Data Sheet is available from Plasma Clean on request.

How it works

The LoBact Ice is designed to keep ice machines clean and free from mold and other microbes. It does this by treating both the water and air in the ice machine. As such it will dramatically reduce the number of manual cleans, when installed correctly.

Quick Guide (factory pre-set)

Ozone output setting – between Low and Medium

Pump setting – High

Timer – Constant (see appendix for timer programming, if required). Ozone concentration inside ice machine – 0.2ppm (measured during commissioning)

Specification

Voltage (Vac)	85-260
Frequency (Hz)	50-60
Power (W) - Max	14
Ozone output (mg/hr)	0-40
Programmable timer	365 day 24-Hour Automatic Clock Timer LCD Control Panel (Auto-Timer)
H x W x D (mm)	287 x 237 x 107
Mains lead (m)	1.8
IP rating / splash cover	55
Safety	prevent accidental adjustment

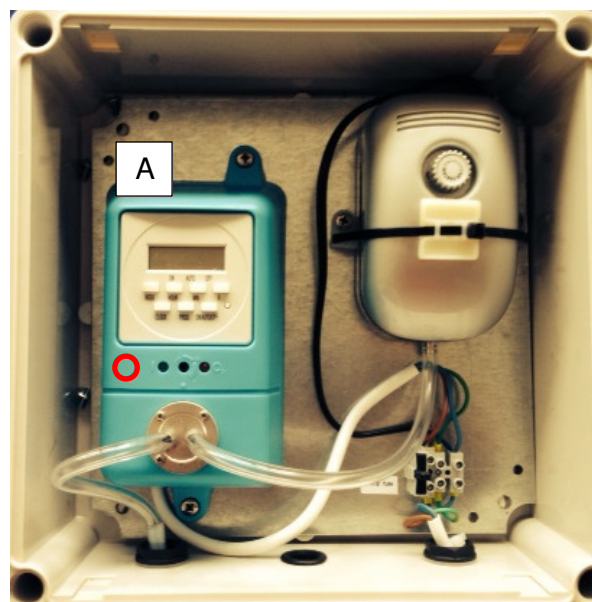
Operation

Remove the cover ensuring the generator is not plugged in. The ozone generator (A) has a timer display that will be visible. The generator can run continually or for a programmed time. If people are present in the room and there is an ozone smell, it is recommended the timer is used so the generator operates when there is minimal occupation.

To switch the unit ON continuously, firmly press the lower right-hand side button on the auto-timer marked "ON / AUTO / OFF" until the LCD panel shows "ON". This function overrides the auto-timer until required.

See Appendix 1 to set the programmable timer.

The ozone output can be adjusted by rotating the ozone output control, highlighted in the image with a red circle.



Installation

Ideally the unit should be fixed to a vertical surface but it can also be placed on a horizontal surface. The unit is to be placed with a clearance of 10cm from the air inlet of the housing.

The generator is supplied with 2m length of flexible PVC pipe and a rigid PTFE diffuser. Attach the PVC pipe to the ozone generator. The ozone outlet has a short PVC pipe connected to identify where the 2m PVC pipe can be connected. Remove this pipe and replace with the longer length cut to the required distance. Conduit is provided for the pipe to be contained for protection and aesthetics.

A hole will need to be cut in the ice machine approx. 10mm diameter. When cutting the PVC pipe entry hole any ice within the ice machine should be removed to ensure no metal contamination. The ice can be returned after the hole is drilled. The position of the pipe entry hole varies with each ice machine and also dependant upon the location of the ice machine.

The PTFE diffuser pipe should be connected to the PVC pipe inside the ice machine. The PTFE diffuser should be placed in the water sump of the ice machine. The water sump varies with different ice machines. The mechanical action of the ice machine, when it is making ice, should be observed to ensure the pipe does not snag during the mechanical movement of the ice making process.

Close the lid and plug in the generator and it will work (if in the ON position or when the programmed time occurs).

Commissioning:

Initially some adjustment may be required to achieve an ozone concentration of 0.2ppm inside the ice machine. The flow of the ozone can be adjusted by turning up or down the pump air flow. The amount of ozone can also be adjusted via the ozone output control.

Refer to the attached risk assessment for the safe setting of the Ambion Ice.

CAUTION – OZONE SAFETY:

Long-term exposure to excessive airborne ozone concentrations can cause irritation to the mucous membrane and should be avoided.

If you smell ozone in the room, the ozone output is set too high and must be reduced in accordance with this manual. If the smell persists turn the unit off and, when it has disappeared, restart the unit at a lower output setting.

Note: this unit is non-submersible.

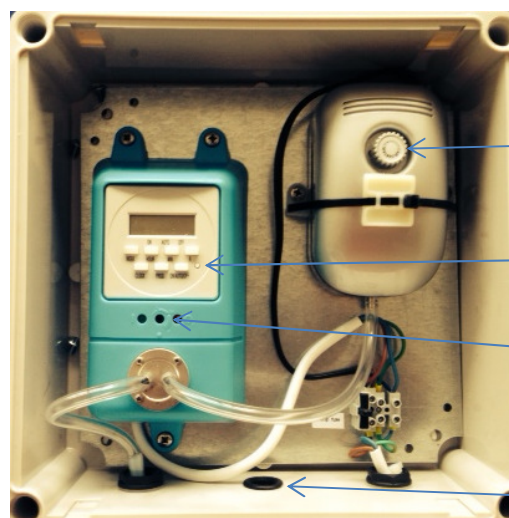
Consumable Parts

The only consumable part in the unit is the ceramic ozone production disk (located under the stainless-steel chamber cover), this will last for many years of standard use.

The warranty does not cover any use of the unit outside that for which it was designed, nor does it cover breakage due to disassembly, or any other misuse or tampering.

A broken ceramic ozone production disk is outside the scope of this warranty, as these can only be broken if mishandled.

Inside the LoBact Ice



Airflow control

Timer

Ozone output control

Air inlet

Appendix 1: Setting the Timer

Before using the auto-timer, set the present time as follows:

HOURL: Press "CLOCK" and "HOURL" at the same time.

MINUTE: Press "CLOCK" and "MINUTE" at the same time.

DAY: Press "CLOCK" and "WEEK" at the same time.

Setting a Program.

You can set up to 8 auto-timer settings (ON and OFF) in any one day or any group of days within the week.

This gives you the same times every day in that group.

Alternatively, you can have one different on and off time for every day of the week.

Combination Weekly Settings:

Set groups of days can be easily selected and given time settings so each day within the group can have the same timer setting.

Set groups means ANY combinations you want 365 days of the year!

Setting a Timer Program:

Press "PROG" to enter into the setting mode. The display will show "1 ON".

Press "WEEK" to scroll through the individual days and combination groups of your chosen days, then press "HOURL" and "MIN" for the auto-timer TO SWITCH ON.

Press "PROG" again for setting the "OFF" time. The display will show "1 OFF".

To set the OFF time, repeat as per setting ON time.

Press "PROG" again to enter a further ON/ OFF program.

Repeat the foregoing procedure as required up to a maximum of 8 programs.

Pressing "R" once will cancel the setting at any time during the program setting mode,

Pressing "R" twice will recall the previous setting.

TIMER ON/ AUTO/ OFF MODES:

Pressing "ON"/ "AUTO"/ "OFF" will show either "ON", "AUTO" or "OFF" in the display.

Selecting "ON" will permanently switch the unit ON.

Selecting "OFF" will permanently switch the unit OFF.

Selecting "AUTO" will switch on the auto-timer modes.

Notes:

The time tolerance of the clock-timer is 2 minutes per month, the auto-timer has a 24hour display.

WEEE Compliance

LoBact operates a WEEE compliance scheme and electrical products can be returned to the following address for disposal: Kitchen Flow Solutions Limited, 75 Fox Hollies Road, Jasmine House, SUTTON COLDFIELD, B76 2RN.

WARRANTY

Kitchen Flow Solution (who is called "LoBact" in this warranty) warrants that, for the warranty period set out in paragraph 2 below, the enclosed Product will be free from defects in material and workmanship, and agrees that it will, at its sole discretion, either repair or replace any defective Product subject to the following terms and conditions:

1. This limited warranty extends only to you, the customer, as the end-user of the Product. You may have additional rights under applicable law. This limited warranty does not affect such rights.
 2. The warranty period is 12 (twelve) months from the date on which you purchased the Product. You are required to register the product to validate the warranty. If you do not register your product, it will invalidate your warranty and will only be covered against defect at the discretion of the manufacturer for a period not exceeding 12 months from date first supplied by the manufacturer. You must notify your reseller, dealer or Kitchen Flow Solutions Limited (or its authorised service company) of any defects as soon as possible after you have become aware of them. Please be aware that claims made 12 months after the purchase date will not be valid.
 3. This limited warranty is valid and enforceable in the countries of the European Union.
 4. This limited warranty does not cover general cleaning and maintenance, nor does it cover the performance or costs of any modification or adjustments which may be necessary to adapt the Product to meet any local technical or safety standards which are applicable in the country in which the Product is intended to be operated.
 5. This limited warranty shall not apply in respect of the following:
 - Any deterioration due to normal wear and tear including all surfaces and all other externally exposed parts that are scratched or damaged due to normal customer use.
 - defects caused by the Product being subjected to any of the following: use in contradiction with the user guide, rough handling, exposure to moisture, dampness or extreme thermal or environmental conditions or rapid changes in such conditions, corrosion, oxidation, unauthorised modifications or connections, unauthorised opening or repair, use of unauthorised spare parts, misuse, improper installation, accident due to forces of nature, spillage of food or liquid, influence from chemical products or other acts beyond Kitchen Flow Solution's reasonable control unless the defect was caused directly by defects in materials or workmanship.
 - any products that have not been adequately maintained.
 - products in respect of which the product serial number (or equivalent) has been removed, erased, defaced, altered or made illegible.
 - defects caused by employing the Product to other than its intended use.
 - defects caused by a non-Kitchen Flow Solutions Limited product being connected or used in conjunction with the Product.
 - products rented on a periodical basis.
 6. All defective parts or Products, which have been replaced by Kitchen Flow Solution Limited (or its authorised representative) during the warranty period, shall become the property of Kitchen Flow Solution.
 7. A repaired or replaced Product(s) will be warranted for the balance of the original warranty period or for ninety days from the date of repair or replacement, whichever is the longer.
 8. You are requested to keep your original proof of purchase, such as the receipt. You will need it to prove the date of purchase in respect of any warranty claims.
 9. To make a claim pursuant to this limited warranty, please:
 - contact the retailer or dealer from whom you purchased the Product; or, call Kitchen Flow Solutions Limited, number below, follow the instructions given to you in respect of the Product, which may include the method of returning the Product to your reseller or dealer or its authorised representative for repair or replacement; and
 - if requested, send to Kitchen Flow Solutions Limited, or present to the reseller or dealer from whom you purchased the Product either a legible and non-modified original warranty card which clearly indicates the name and address of the retailer or dealer from whom you purchased the Product, the date and place of purchase, the product type and the serial number (or equivalent) or a legible and non-modified original purchase receipt containing the same information.
 10. In the event of a return or repair, please ensure that the unit is well protected preferably inside its original packaging to prevent further damage.
 11. You may be required to pay the cost of returning any defective Product to Kitchen Flow Solutions, or the reseller or dealer from whom you purchased the Product. However Kitchen Flow Solutions Limited will pay the cost of delivering any repaired or replaced Product back to you provided that the warranty is valid.
- This limited warranty is granted to you by Kitchen Flow Solutions Limited, contact below.



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