

# LoBact IONISER



## INSTALLATION, OPERATION & MAINTENANCE

### ODOUR CONTROL UNIT



**Kitchen  
Flow  
Solutions**

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## **Congratulations on purchasing a LoBact Air purifier**

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

LoBact Air air purifiers utilise advanced air cleaning technology developed by the University of Manchester, UK.

Unlike most products in the marketplace which simply mask the problem, LoBact Air purifiers act by effectively reducing bacteria & odours in the air, helping to dramatically improve air quality, leaving your environment smelling fresh and hygienically clean.

Before you start to enjoy the benefits of your LoBact Air air purifier, 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 your LoBact Air representative, who will be only too happy to help,

Thank you,

The LoBact Air Team



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## 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.

### Plasma Clean Air Ambion Units Are Designed For Indoor Use Only

The unit is easy to install and will provide satisfactory operationsubject to 'good housekeeping' i.e. regular cleaning and inspection.

### 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

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

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

As with any electrical equipment, do not let the devicebe manipulated by children and always ensure adequate

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 the event that high levels (>0.1PPM) of ozone is accidentally released into the room, evacuate immediately.

Ventilate the room by opening all external doors and windows. Do not attempt to enter the room until sufficient time has elapsed for the ozone concentration to be at a safe level

 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 Healthand 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.***

### 1.3 Technical Information

|               |   |
|---------------|---|
| Model:        | Ambion Ioniser C / T  |
| Dimensions:   | 225H x 165W x 110D mm                                       |
| Weight:       | 1kg   |
| Electrical:   | 100-240V / 1ph / 50-60 Hz                                   |
| Power         | 14 W  |
| Case:         | Food safe plastic   |
| Ozone Output: | 40mg/hr   |
| Output        | AMB C standard- Continuous                                  |
| Control:      | AMB T timer – ON (Continuous)<br>– AUTO (Timed) – OFF (Off) |

## 2.1 Preparation for Installation

**⚠ Before installation make sure that the unit is not damaged. Ensure that your electrical supply matches that of the unit and observe all building and electrical codes before proceeding.**

Refer to the enclosed "Location Guide for Installation of Ozonisers", for further information.

The AMB wall mounted unit must be secured using stainless steel screws provided.

The AMBH portable unit must be placed on a firm level surface prior to use.

Depending on the model the unit may be supplied in a pre-wired condition with a standard plug or with a cable having bare ends for connection to a 5A fused double pole switched spur. Hard wired installations should be carried out by a qualified electrician.

Leave at least 2m of space from televisions and radios to prevent electrical interference

Do not obstruct the inlet or outlet of the unit with fabrics or furniture. This will cause overheating and affect efficiency of operation.

Do not allow the ioniser to blow directly into the face of humans or animals

Install above head height

Keep out of reach of children and animals

Two wall plugs and screws are required for wall installation

The screws must be 380mm apart.

## Section 3: User Operation, Maintenance & Service

### 3.1 Operation

Connect to electrical power to activate the unit.

#### Operating Instructions for Optional Integral Timer (AMBT)

**⚠ Prior to setting the timer the unit must be connected and powered with the cover closed for a period of up to 15 mins to charge the back-up battery.**

The unit is fitted with an internal rechargeable back-up battery that powers the timer and allows the time and any stored programs to be maintained in the event of power failures. This internal battery will maintain the time and any programmes stored for up to 30 days without external power. If the unit is left disconnected from the electrical supply for more than 30 days, the time and any programmes stored will be lost. Should this occur simply

reconnect the power supply for the battery to recover its charge. Then reset the time and reprogram any required stored programs.

The timer has the facility for 8 programmes a day or group of days. A programme is a pair of on/off settings that will dictate when the unit will switch on and off. If the rechargeable battery has been completely discharged the display on the timer will not be present. Once the unit has been connected to supply for a few minutes briefly press the MASTER RESET button (the small white circular button) on the timer using a suitable implement (e.g. a pen). The timer should then start working normally and the clock display should be present.

#### 1. Setting the Time:

Before use the present time must be set as follows.

**1.1 Setting hours** – Hold down the CLOCK button whilst briefly pressing the HOUR button to advance the time by one hour. Repeat pressing of HOUR button to advance the time by one hour. Holding the HOUR button down for more than approximately 1 second will cause the hours to advance until the HOUR button is released. Release the CLOCK button when the hour displayed is correct.

**1.2 Setting minutes** – Hold down the CLOCK button whilst briefly pressing the MIN button to advance the time by one minute. Repeat pressing of the MIN button will advance the time by one minute. Holding the MIN button down for more than approximately 1 second will cause the minutes to advance until the MIN button is released. Release the CLOCK button when the minutes displayed are correct.

**1.3 Setting the current day of the week** – Hold down the CLOCK button and briefly press the WEEK button to advance the day of the week. Repeat pressing the WEEK button until the correct day of the week is indicated. Release the CLOCK button.

#### 2. Setting a Program:

You can set up to eight timer settings (on and off) in one day or group of days.

This will give you the same on and off 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 selected and given a timer setting so that each day within the group has the same timer setting.

The set groups are as follows:

Mo Tu We Th Fr Sa Su Mo

Tu We Th Fr

Sa Su

Mo Tu We Th Fr Sa Mo

We Fr

Tu Th Sa

Mo Tu We

Th Fr Sa



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### Setting a timer program:

- 2.1 Press 'PROG' to enter into the setting mode. The display will show '1 on'.
- 2.2 Press 'WEEK' to scroll through the individual days and combination groups of days. Then press 'HOUR' and 'MIN' to set the hour and minute for the timer to switch on.
- 2.3 Press 'PROG' again for setting the off time. The display will show '1 off'.
- 2.4 Repeat 2.2 to set the off time. (Select the same 'WEEK' setting as in 2.2).
- 2.5 Press 'PROG' again to enter into the second on/off mode.
- 2.6 Repeat 2.1 to 2.4 for setting all eight programs if required.

### 3.2 Maintaining Your Unit

Ensure that the mains supply is disconnected before cleaning the unit. The exterior of the unit requires an occasional wipe with a damp cloth to maintain its appearance.

At daily or weekly intervals, check that the fan is running and that there is a light blue glow on the plate.

**⚠ This procedure will not work under the following conditions. 1) The Cover is lifted unless the GREEN Switch Button is depressed. 2) The unit is an AMBT and the Timer is not calling for Ozone – Need to use the ON/AUTO/OFF button on the Timer to select ON. Following testing, return the Timer to its previously selected operating mode.**

### 3.3 Service and Maintenance

The unit should be serviced as necessary, at 3 – 6 month intervals depending on the site and usage.

- Switch off the electrical supply and open the cover;
- Check the overall condition inside the unit and remove any debris, use a cleaning wipe (Pt. No. 010-069-00) to clean highlighted surfaces (see Figs 1 & 2) ensuring that all deposits are removed;
- Disconnect the in-line connector to the fan assembly, then remove the fan by pressing on the two plastic retaining clips (see Fig 3);

### 3.4 WEEE Compliance

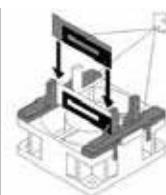
LoBact operates a WEEE compliance scheme and electrical products can be returned to the following address for disposal:  
Kitchen Flow Solutions Limited, 75 Fox Hollies Road, Jasmine House, SUTTON COLDFIELD, B76 2RN.

**⚠ It is Recommended that the Fan Assembly be replaced annually**

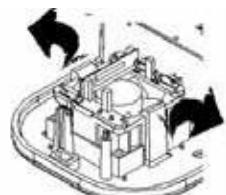
**Fig 1**



**Fig 2**



**Fig 3**



### Available Spare Parts

The following spare parts are available from Plasma Clean Air :

|                |  |
|----------------|--|
| Ceramic Plate: | Part Number: 110-015-00                            |
| Fan Assembly:  | Part Number: 400-069-03 (Includes 1 Ceramic Plate) |
| Alcohol Wipe:  | Part Number: 010-069-00                            |

### Fault Finding

If the unit is suspected of not working the following checks should be carried out:

- Check the fuse in the plug or in the switched fused spur and replace with 5 Amp fuse if necessary.

**⚠ Switch off the Electrical Supply. Remove the cover and:-**

- Check the fan assembly is properly located.
- Check that the in-line plug connector to the fan assembly is correctly connected
- Check the ceramic plate is properly fitted in the fan assembly.
- Check the plate orientation and ensure electrical contact is made, see Fig 2

### Close cover and switch on the electrical supply.

Check that the fan is working and that the ceramic plate is operating, i.e. that a light blue corona discharge can be seen on the plate. If the unit is an AMB15/25/T the Timer will need to be set so as to call for ozone.



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## Section 4 Contact Information

### LOCATION GUIDE FOR INSTALLATION OF AMBION UNIT

**DO INSTALL** ✓

Away from washbasins

Away from urinals

Away from windows and other ventilation

At least 30cm below the ceiling

Above pipework (This avoids condensation dripping on to unit)

Out of reach from the public

**DO NOT INSTALL** ✗

Over washbasins

Over urinals

Near windows or other ventilation

Touching ceilings (must be 30cm below ceiling height)

Below pipework



## WARRANTY

Bullshift Sales Limited (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 installed 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 (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 24 months after the installation 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 the fan or ceramic plate, 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:
  - a. 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.
  - b. 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.
  - c. any products that have not been adequately maintained.
  - d. products in respect of which the product serial number (or equivalent) has been removed, erased, defaced, altered or made illegible.
  - e. defects caused by employing the Product to other than its intended use.
  - f. defects caused by a non-LoBact product being connected or used in conjunction with the Product.
  - g. products rented on a periodical basis.
6. All defective parts or Products, which have been replaced by Kitchen Flow Solutions (or its authorised representative) during the warranty period, shall become the property of Kitchen Flow Solutions.
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:
  - a. contact the retailer or dealer from whom you purchased the Product; or, call the number in this document
  - b. 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 to Kitchen Flow Solutions (or its authorised representative) for repair or replacement; and
  - c. if requested, send to Kitchen Flow Solutions, 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 will pay the cost of delivering any repaired or replaced Product back to you provided that the warranty is valid.



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