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CLIMA**

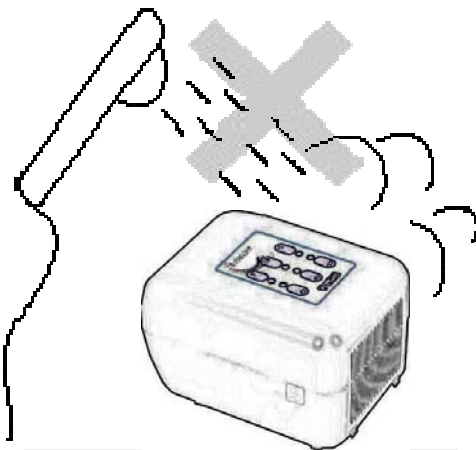
SANITIZER

USER'S MANUAL

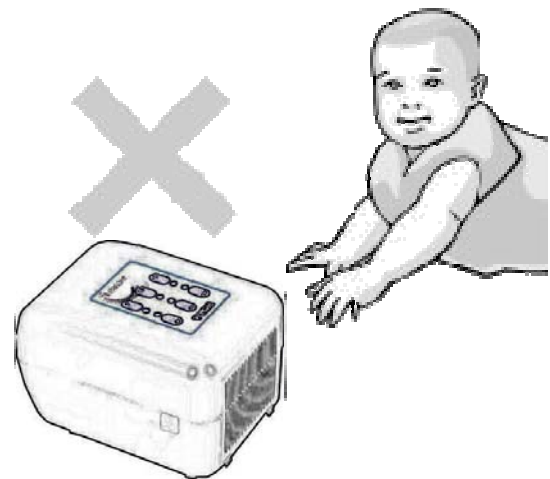


WARNING**SAFETY PRECAUTIONS**

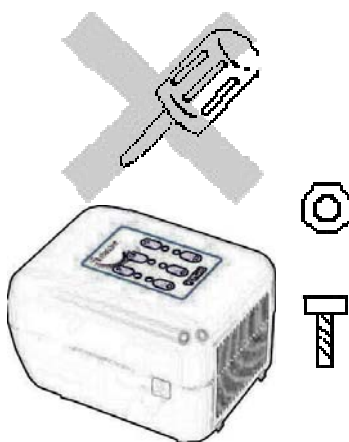
- This equipment is designed for trained personnel only.
- Carefully read the instructions contained in this manual; strict observance of the procedures described is fundamental to the operator's safety, the perfect state of the equipment and constant performances as declared.



Do not wash with water



Keep out of children's reach



Do not disassemble



Do not insert obstacles in the unit



1. INTRODUCTION

Sanitizer LOVAIR CLIMA is a professional ozone generator of high capacity (100 mg/h) which, thanks to the ozone strong oxidizing power, kills bacteria, moulds, and mites and dissolves all kind of smells.

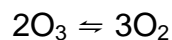
Perfect to sanitize the following places:

- environments with air-conditioners, fan coils and ventilation systems
- cold stores and refrigerators
- toilets
- houses, offices and gymnasias
- smoky rooms
- rooms where pets live
- bars and public places

BACTERICIDAL CAPACITY TEST EFFECTED BY THE LABORATORY R.Q.A. SRL – ENVIRONMENT QUALITY RESEARCH – OF RODANO (ITALY)

1.1 WHAT IS OZONE?

Ozone is a molecule of three oxygen atoms bound together (O_3), with negative electric charge. The ozone molecule is very unstable and has a short half-life. Therefore, it will decay after 10-15 seconds into its original form: oxygen (O_2), according to the reaction presented below:



In nature, ozone is produced by some physical reactions. The most well-known example is of course the ozone layer, where ozone is produced from the sun's UV rays. But ozone is also produced at thunderstorms and waterfalls. The special "fresh and clean spring rain" smell is a result of nature-produced ozone. Ozone derives from the Greek word "ozein", which means "to smell".

Ozone can also be produced artificially by means of ozone generators. These produce ozone with extremely high voltages or with UV light.

1.2 HOW DOES OZONE WORK?

The ozone operates according to the principle of oxidation. When the static loaded ozone molecule (O_3) contacts with something "able to oxidize", the charge of the ozone molecule will directly flow over. This is because ozone is very unstable and tends to turn back to its original form (O_2). Ozone can oxidize with all kinds of materials, but also with odours and micro organisms like viruses, moulds and bacteria. The extra oxygen atom releases from the ozone molecule and binds with the other material. In the end, only the pure and stable oxygen molecule remains.



1.3 TECHNICAL DATA OF LOVAIR CLIMA

Capacity: 100mg/h

Power supply: 230-50Hz

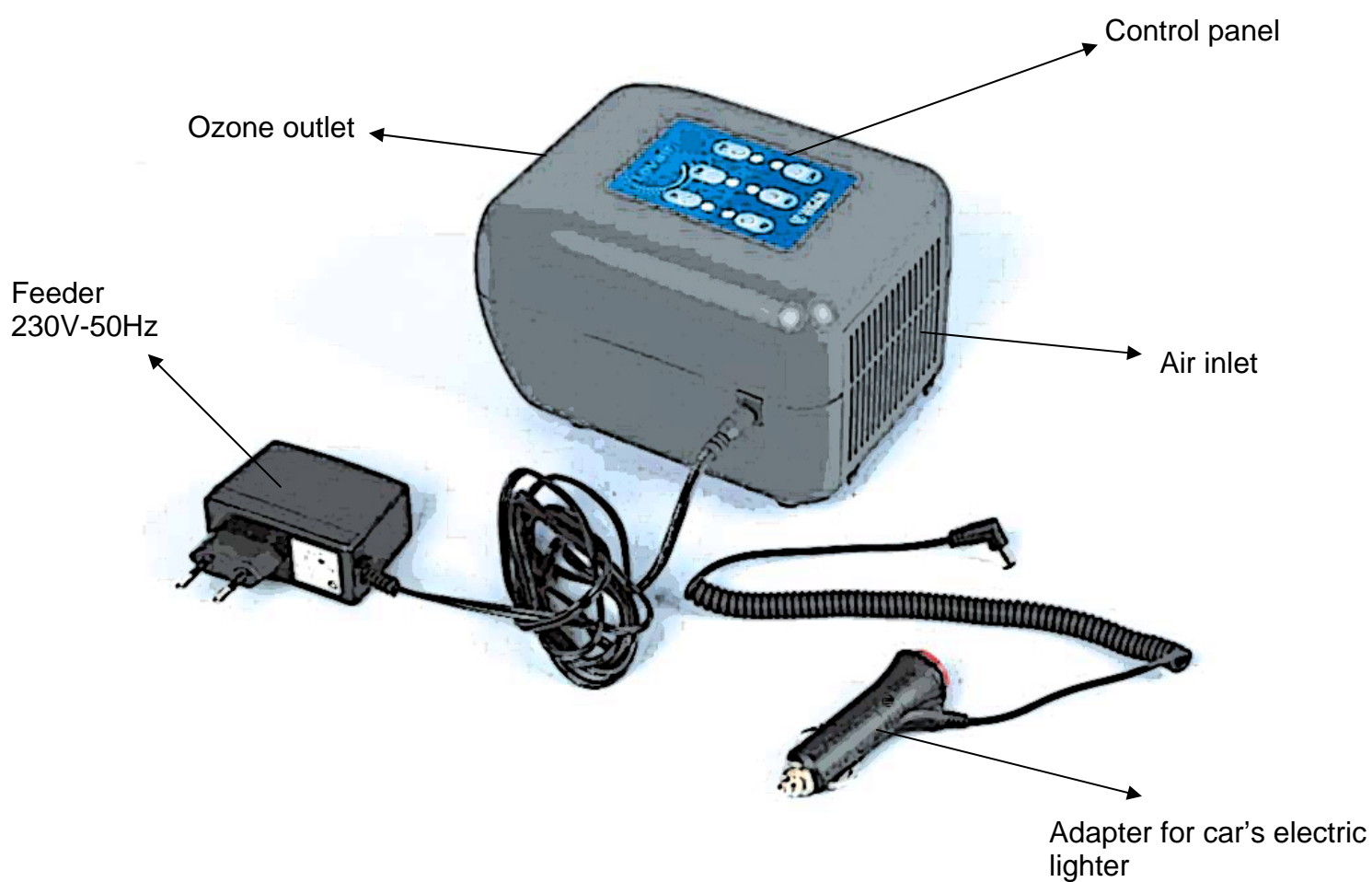
Timer: 5 selectable programmes (5'-15'-30'-45'-60')

Working temperature : 0 ÷ 50° C

Weight: 1,2 kg.

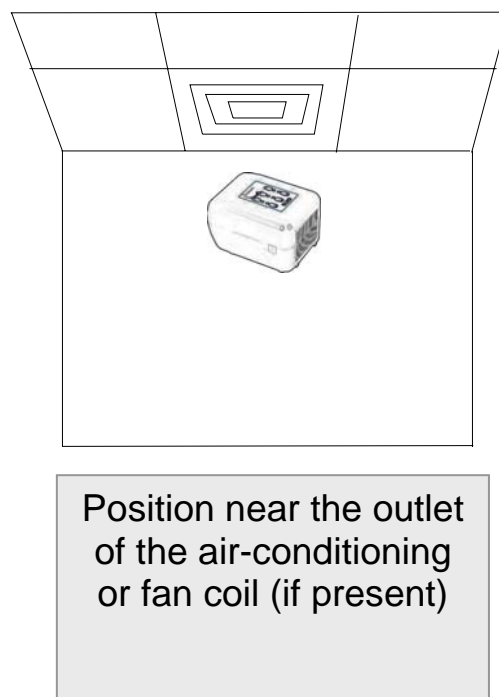
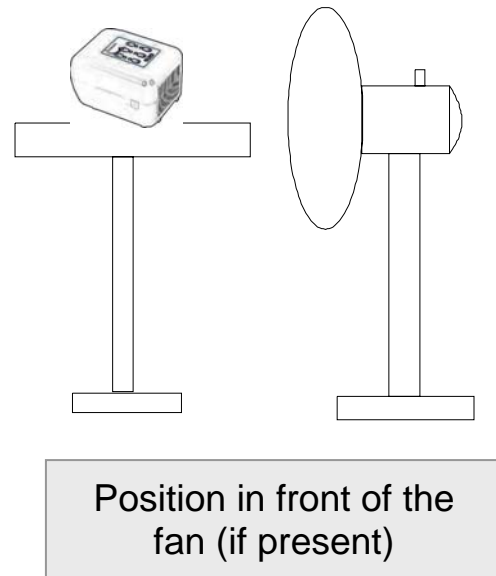
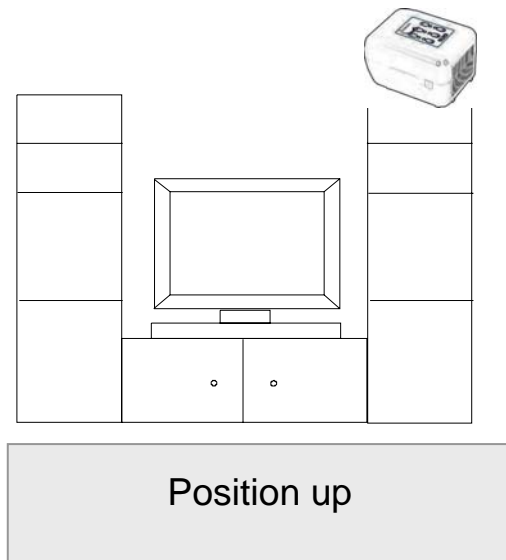
Dimensions: 50x70x45 mm

2. DESCRIPTION OF LOVAIR CLIMA COMPONENTS





3. HOW TO POSITION LOVAIR CLIMA





4. INSTRUCTIONS FOR USE

1. Place LOVAIR CLIMA on a solid and level surface, following the directions given in section 3.
2. If there is an air conditioner, a fan coil or a fan, activate the ventilation system at the maximum power.
3. Close all windows and possible air inlets with the outside.
4. Connect the unit to the power supply.
5. Select, on the control panel, the functioning time suitable to the room/place you want to treat (please see table in section 5).

WARNING

The operator must leave the room/place as soon as the ozone generator has been activated.

WARNING

Nobody (persons or animals) must stay in the room/place during the treatment.



6. Hang the special cardboard label with hook indicating “works in progress” on the door and close the room/place.
7. The unit will stop automatically when the selected time is over.
8. As soon as the treatment is completed, ventilate the room/place opening doors and windows for at least 15 minutes.

WARNING

Ventilate the room/place at least 15 minutes before staying in it again.

5. TABLE OF FUNCTIONING TIMES

The below table shows the suggested times of use for the sanitization of rooms/places:

Time in minutes	Surfaces up to
5'	15 m ³
15'	45 m ³
30'	90 m ³
45'	135 m ³
60'	180 m ³
60' x 2 **	180-360 m ³

** It is necessary to use two LOVAIR units, to place at both ends of the room/place to treat.



WARNING

In case the presence of pollutants in the room is high, it is suggested to increase the time or to repeat the treatment.

6. MAINTENANCE

The only maintenance LOVAIR CLIMA needs is cleaning the filter and replacing the ozone generator chip.

6.1 CLEANING THE FILTER

1. Remove the lid (see picture) situated on the rear of the unit, by pressing the two plastic fins.
2. Remove the filter and wash it with water.
3. Carefully wipe the filter before placing it back into LOVAIR CLIMA unit.
4. Reposition the plastic lid.



WARNING

For a proper functioning of LOVAIR CLIMA, we suggest to clean the filter regularly.

6.2 REPLACING THE CHIP

The chip supplied with the LOVAIR CLIMA lasts about 2500 hours. Anyway, it should be replaced every 2 years or if you do not smell the strong smell of ozone any longer when you turn on the unit.

1. Remove the lid situated on the front of the unit LOVAIR CLIMA by pressing the two plastic fins and sliding the lid upwards.
2. Remove the chip and insert a new one
3. Reposition the lid correctly, sliding it into the tracks.

7. SPARE PARTS

Description	Part number
Spare chip	09019006
Feeder 230V-50Hz	09019004
Adapter for car's electric lighter	09019005



WIGAM S.p.A - Loc.Spedale 10/b - 52018 Castel San Niccolò (AR) ITALY
Tel. ++39-0575-5011 Fax. ++39-0575-501200
www.wigam.com - info@wigam.com