



LAUNDRY 500



OZONEGUARD

Laundry 500 Ozonguard
For water treatment

User manual

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Ozoneguard

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User manual

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1. GENERAL INFORMATION

The manual is an integral and essential part of the device and must be given to the end user. This device must only be used for the purpose for which it is expressly intended, which is OZONE GENERATOR FOR WASHING MACHINES. Any other use must be considered improper and therefore dangerous. In case of doubt or uncertainty about the information provided, please contact the manufacturer. Any contractual and non-contractual liability of the manufacturer for damage caused by errors in installation and use and in any case caused by failure to comply with the instructions supplied by the manufacturer is excluded. The device must be installed in compliance with the standards in force and in particular those concerning the power supply, water supply and water discharge and any other standards, regulations and laws related to the installation of this type of device.



In the event of a failure and/or malfunction of the device, switch it off (disconnect the power supply and close the water supply tap). Any repairs to the products must be carried out only by a Service Centre authorised by the manufacturer, using only original spare parts.

Failure to comply with all of the above may impair the safety of the device. In order to guarantee the efficiency of the device and for it to work correctly, it is essential that any intervention be carried out by professionally qualified personnel, in accordance with the manufacturer's instructions. If the device is sold or transferred to another owner, always ensure that the manual accompanies the Laundry 500 Ozonguard device so that it can be consulted by the new owner and/or installer.



The manufacturer reserves the right to modify the product and the related technical documentation without incurring any obligation to third parties and assumes no liability for possible errors or inaccuracies in the contents of this manual. The present edition of the manual for use and maintenance describes the characteristics of the device in the series on the date when this publication is licensed for printing.

1.1. Premise

The manufacturer stays available for any technical problem and for the order of spare parts. The use of original spare parts is recommended for the replacement of parts of the device; the manufacturer declines any responsibility for possible deterioration of the device's performance due to damage caused by the use of non-original spare parts.

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2. INTRODUCING THE PRODUCT AND PRINCIPLE OF OPERATION

The Laundry 500 Ozonguard equipment uses the cleaning power of ozone to do your laundry in a more efficient way than soap, detergent or other ionising equipment, while remaining environmentally friendly. It eliminates pesticides, fungi, organic matter, contaminants and viruses. In addition, it is 100% toxic free, without adding pollutants to the water or the environment.

To achieve a higher concentration of ozone, the Laundry 500 Ozonguard equipment includes a carbon filter to remove chlorine, as this reduces ozone generation.

The Ozonguard Laundry 500 equipment helps to eliminate:

- Bacteria.
- Viruses.
- Odours.
- Sediments.
- Chlorine.

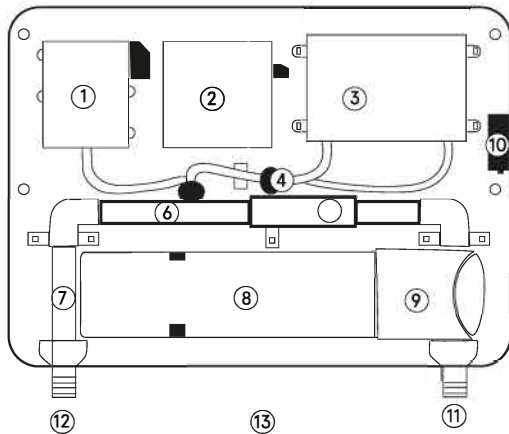
3. TABLE OF TECHNICAL SPECIFICATIONS

<i>FEATURES</i>	<i>DOMESTIC / COMMERCIAL OZONE GENERATOR</i>
MODEL	Laundry 500 Ozonguard
To be used with cold tap water	
Ozone generation in water	0,3 – 0,9 ppm
Maximum inlet chlorine	2 ppm
Maximum inlet TDS	1000 ppm to 2 ppm of free chlorine
Inlet pressure	2 – 8 bar
Inlet water temperature	5 – 38°C
Working environment temperature	5 – 50 °C
Sediment and chlorine retention	≥ 90%
Work flow	3 – 5 l/min
Power supply	Transformer input: AC 100-240V 50/60Hz Transformer output: DC 12V 3A
Maximum power consumption	36 W
Ozone generation method	Corona discharge
Type of installation	Wall mount with bracket included
Equipment size (length x width x height)	375 x 290 x 105 mm
Weight	Net: 3 kg; Gross: 3,5 kg

4. USE AND SAFETY CONSIDERATIONS

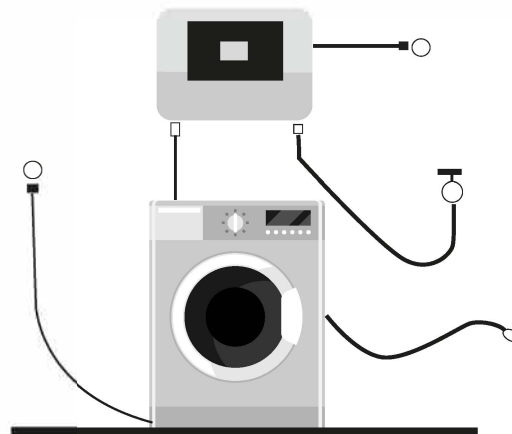
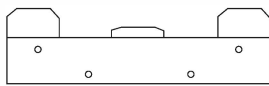
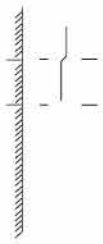
- Read this manual carefully before its use.
- Do not operate the device without the case.
- Unplug electrical and hydraulic power before manipulating.
- Do not install the equipment vertically or inclined.
- Do not use an extension cable or other transformer other than the one supplied with the equipment.
- Maximum hydraulic pressure is 8 bar.
- Use the included hose to connect the water inlet to the Laundry 500 Ozoneguard equipment.
- For domestic use, the carbon filter included inside the Laundry 500 Ozoneguard equipment has a life time of approximately 1 year or 9600 liters. Once the equipment reaches 0 days or 0 litres remaining, the filter change warning will flash and ozone generation will cease. Do not use detergents or other chemicals to clean your equipment. Use only a cloth moistened with water.
- The Ozoneguard Laundry 500 equipment is designed for home use, it should not be used in other industrial applications.

5. EQUIPMENT OVERVIEW



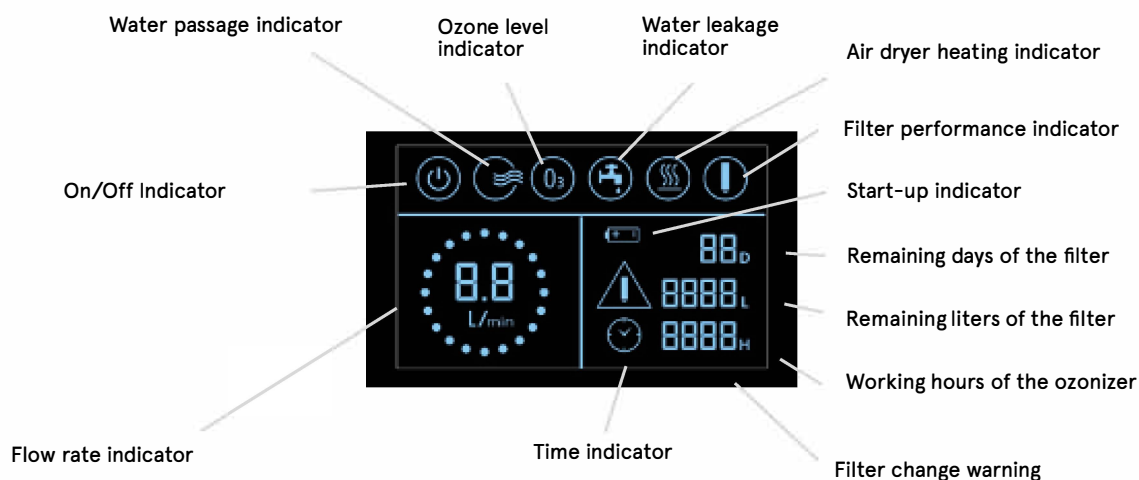
- | | |
|---------------------------|---------------------|
| 1. Air dryer | 8. Carbon filter |
| 2. Circuit control board | 9. Filter head |
| 3. Printed (PCBA) | 10. Electrical plug |
| 3. Ozone generator module | 11. Water inlet |
| 4. Non-return valve | 12. Water outlet |
| 5. Flow sensor | 13. Leakage sensor |
| 6. Venturi | |
| 7. Mixer | |

6. INSTALLATION GUIDE



1. The Laundry 500 Ozonguard equipment includes a metal support, a power adapter, 4-1/4" plugs, a hose, a wrench and a screwdriver as accessories.
2. The equipment must be installed on the wall, above the water connection. First, place the metal bracket on the wall. The bracket has three fixing holes together with its 3 anchor screws. Secure the bracket to the wall with the anchor screws to place the equipment.
3. Make sure that the bracket is completely horizontal. Bad positioning can affect the operation of the equipment.
4. After installation, do not open the equipment. There are 3 slots on the back of the equipment. Align the 3 slots over the 3 ledges on the stand and let the equipment rest quietly on them.
5. Connect the water tap to the inlet of the equipment with the hose provided. Make sure that the rubber seals are correctly positioned before connecting. Tighten the connection firmly, but do not exceed the tightening, as this may damage the seals.
6. Plug the transformer into the power outlet and connect the other end to the equipment.

7. OTHER INSTALLATION RECOMMENDATIONS



7.1 Electrical connection

4 indicators are shown:

- On/Off Indicator
- Flow rate indicator
- Remaining liters of the filter
- Working hours of the ozonizer



7.2 Forced heating of the air dryer

The first time the equipment is used or after 7 days of non-use, the air dryer must be heated by force.

To do this, press the "Filter" button for 1 second.

The air dryer will start to warm up and the indicator will appear on the display. To stop the process, press the "Filter" button again. The heating time is 2 hours.

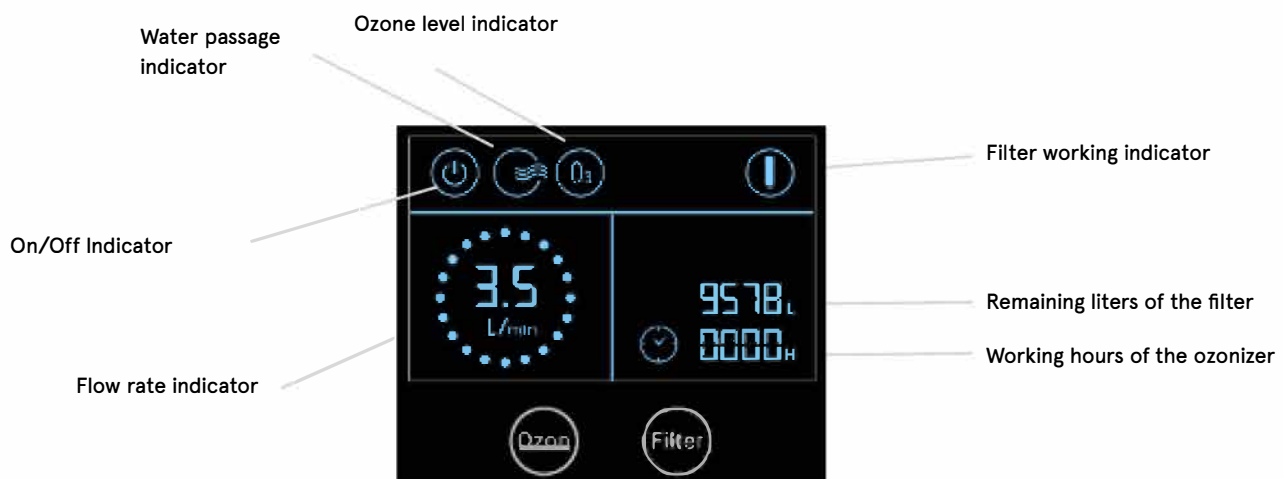
Generally, the air dryer will warm up automatically every 7 days under normal operating conditions.



7.3 Opening the water passage through the equipment

When the user opens the water flow or the washing machine requests water, the equipment ozonates at high level. The indicators shown are:

- On/Off Indicator.
- Flow rate indicator.
- Remaining liters of the filter.
- Working hours of the ozonizer.
- Filter working indicator.
- Water passage indicator.
- Ozone level indicator.



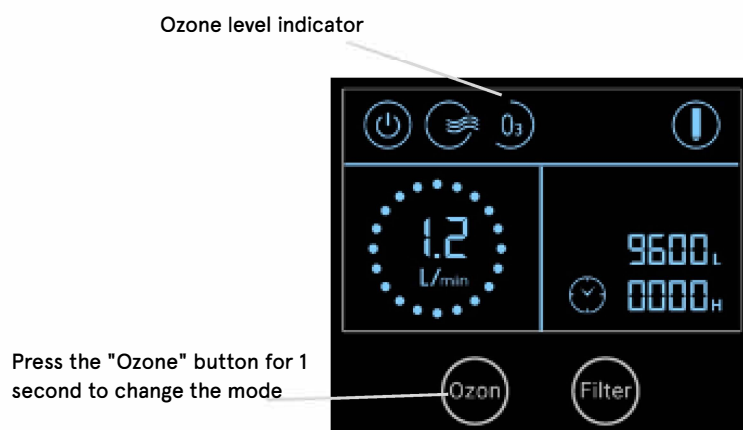
7.4 Ozone level selection (high/low)

To change the ozone level of the equipment from high to low or vice versa, press the "Ozone" button for one second.

High ozone level indicator:

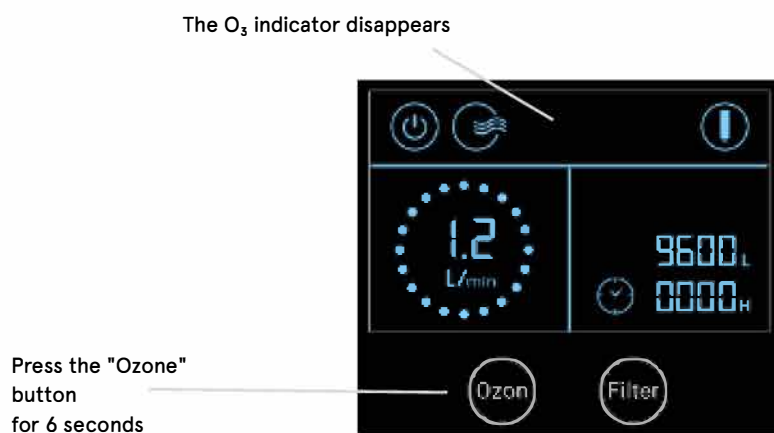


Low ozone level indicator:



7.5 Stopping the production of ozone

To stop the ozone production, press "Ozone" for 6 seconds until the indicator disappears.



7.6 Filter indicators

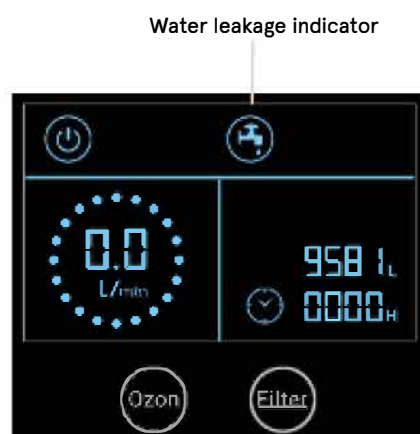
- A. The filter must be replaced annually. When the remaining life time is 30 days or less, display will show the days starting at 30 to 0. In the meantime, the filter change indicator will blink.
- B. The filter capacity in remaining litres will start at 9600 and decrease with use. When this value reaches 1000 litres, the filter change indicator will start blinking.
- C. When the 0 days or 0 remaining litres are reached, the filter change indicator will blink, an acoustic alarm will sound and the equipment will stop ozonizing the water. The filter should be replaced.





7.9 Water leakage alarm

In the event of a water leakage, the water leakage indicator will appear on the display and an alarm will be heard. In the meantime, the ozonizer will stop working. Disconnect the machine, find and fix the leak and dry the sensor before restarting it. If you are unable to correct the warning, contact Technical Service.

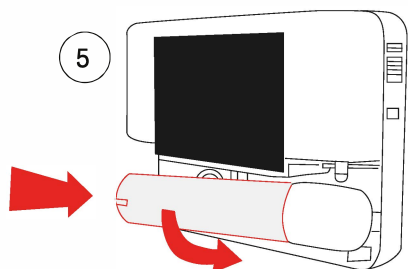
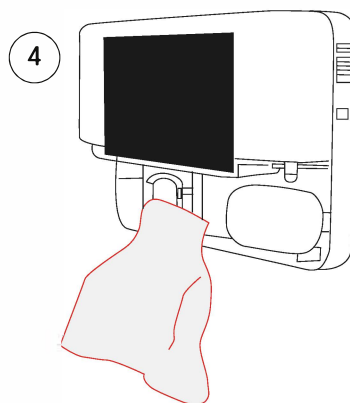
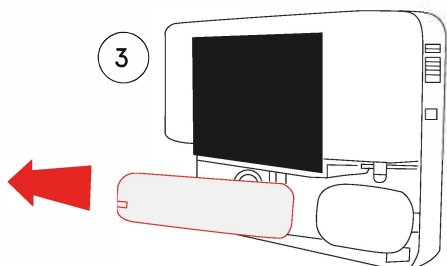
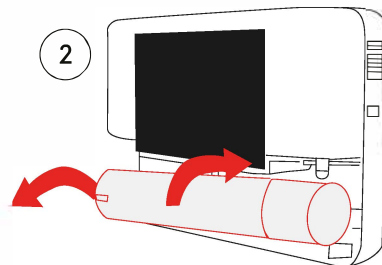
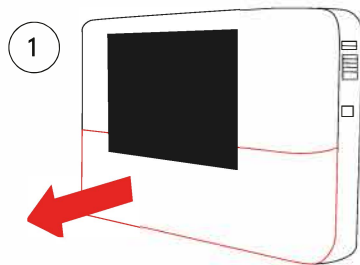


8. FILTER CHANGE



The filter should be replaced annually or every 9600 litres. The equipment will warn when the remaining life time is less than 30 days. Before changing the filter, disconnect the power supply and close the water inlet of the equipment. It is recommended to depressurize the equipment to prevent the leak sensor from getting wet.

- ① Opening the body manually
- ② Grasp the filter by its body and rotate it counterclockwise to remove it.
- ③ Remove it from the anchorage by pulling gently.
- ④ Use a dry cloth to remove any water droplets that may remain inside the equipment.
- ⑤ Install the new filter and rotate clockwise against the header.



9. MAINTENANCE

- Before carrying out any maintenance work, check that the device is unplugged from the electrical mains.
- In the event of a malfunction, never attempt to repair the device yourself. Repairs made by non-competent persons can cause damage and accidents.
Check the contents of this manual. If you do not find the information you are interested in, contact your nearest service center. Assistance must be provided by an Authorised service centre. Do not allow unauthorized personnel to perform the repair.
- Always request the use of original spare parts. Only original spare parts guarantee the functional reliability and the optimization of the device's performance.
- Maintenance of the device must be carried out by technical, authorized and qualified personnel.

THIS DEVICE MUST BE SUBJECTED TO MAINTENANCE IN ORDER TO MAINTAIN
CONSTANT THE EFFICIENCY PERFORMANCE DEFINED BY THE MANUFACTURER

During the warranty period, no intervention may be carried out without the prior authorisation of our Technical Support department. If this is not respected, the guarantee will automatically cease.

- If maintenance work is not carried out regularly, the manufacturer declines any responsibility for the declared performance.
- The Laundry 500 Ozoneguard equipment uses components that are subject to periodic replacement.
- If the power cable is damaged, it must be replaced by the manufacturer or its technical support service or a similarly qualified person, to prevent any risk.

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