

# MUDDY

## Muddy Ozone Generator 500

USER MANUAL PRE-FINAL DRAFT

### ENGLISH VERSION



- 200 mg/h standard output
- 300 mg/h boost 1 output
- 500 mg/h boost 2 output
- 10-minute clean cycle with auto shutoff
- 12 V / 5000 mAh rechargeable battery
- USB-C battery charging
- 3-button remote control with pairing mode
- Multi-position mounting system

**READ ALL INSTRUCTIONS BEFORE OPERATING**  
**OZONE IS A POWERFUL OXIDIZER AND MUST BE USED WITH CARE**

#### **CRITICAL DRAFT NOTE**

This manual intentionally highlights missing information, unresolved items, and source conflicts. Those sections must be completed and approved before this document is released to end users.

#### **OZONE EXPOSURE WARNING - INCOMPLETE SOURCE PACKAGE**

The source specification documents confirm that this product generates ozone, but they do not include a complete consumer-facing warning block for exposure limits, re-entry timing, occupied-space restrictions, or medical cautions. A final safety statement must be inserted before publication.

**OPERATOR MUST READ AND UNDERSTAND THIS MANUAL BEFORE USE**

## INTRODUCTION AND BOX CONTENTS

Thank you for choosing the Muddy Ozone Generator 500. This device is designed to help reduce odor by drawing in ambient oxygen, converting it to ozone through an internal corona-discharge process, and dispersing it with an internal fan. The product documentation also indicates intended mounting above the user position and use with prevailing airflow.

### Box contents

- Main unit
- Instruction manual
- Warranty information
- Rechargeable Battery
- Mounting accessories based on final packaged configuration
- Remote

### Product controls and indicators

| Control / Indicator | Function                                                                                 |
|---------------------|------------------------------------------------------------------------------------------|
| Power button        | Press and hold to power on. Press again to power off.                                    |
| Mode button         | Cycles Standard -> Boost 1 -> Boost 2 -> Clean.                                          |
| Battery button      | Press and hold to display battery level on battery LEDs.                                 |
| Green LED           | Indicates Standard, boost 1, Clean modes.                                                |
| Blue LED            | Indicates Boost 2 mode.                                                                  |
| Remote POWER        | Toggles power on / off.                                                                  |
| Remote NORMAL       | Short press sets Normal mode. Press and hold to start pairing mode.                      |
| Remote BOOST        | If not already in Boost, enters Boost 1. If already in Boost, toggles Boost 1 / Boost 2. |

### Output modes

| Mode     | Output / Behavior                               |
|----------|-------------------------------------------------|
| Standard | 200 mg/h nominal output                         |
| Boost 1  | 300 mg/h nominal output                         |
| Boost 2  | 500 mg/h nominal output                         |
| Clean    | 200 mg/h for 10 minutes, then automatic shutoff |

## GENERAL OPERATING INSTRUCTIONS

### Initial setup

- Remove the product and accessories from the package.
- Inspect the unit, battery pack, and mounting hardware for visible damage.
- Install the battery in the battery compartment. The compartment uses a drop-down door design for easier access while mounted overhead.
- Charge the battery if needed using the USB-C charging port on the battery pack.
- Mount the unit using the 1/4"-20 brass insert, snap-fit dovetail attachment point, and the applicable bracket or adapter for the final package configuration.

### Main unit operation

- Press POWER to turn the unit on.
- Press MODE to cycle through Standard, Boost 1, Boost 2, and Clean.
- Use Standard for routine operation.
- Use Boost 1 or Boost 2 for higher output in open-air environments.
- Use Clean in enclosed areas to quickly clean equipment. The unit will run for 10 minutes and then shut off automatically.

### Remote pairing

- Turn the main unit on.
- Press and hold the NORMAL button on the remote to send the pairing command.
- If pairing mode is accepted, the three mode indicator LEDs on the main unit flash slowly at the same time.
- Pairing mode remains active for 30 seconds.
- During that 30-second window, briefly press the NORMAL button once to save the remote ID and enter remote control mode.
- If a button other than NORMAL is pressed during pairing, pairing fails and must be repeated.
- If no remote command is received within 30 seconds, pairing mode times out, exits, and clears the previously paired remote ID.

### Remote operation

- Short press NORMAL to place the main unit in Normal mode.
- Short press BOOST: if the unit is not already in Boost mode, it enters Boost 1.
- Short press BOOST again while already in Boost mode to toggle between Boost 1 and Boost 2.
- Short press POWER to switch the main unit between power on and power off.

### Battery level indication

| LEDs shown | Approximate charge state      |
|------------|-------------------------------|
| 4 LEDs     | 100% / approx. $\geq 11.54$ V |
| 3 LEDs     | 75% / approx. $\geq 11.26$ V  |
| 2 LEDs     | 50% / approx. $\geq 10.66$ V  |
| 1 LED      | 25% / approx. $\geq 9.60$ V   |

## SAFETY PRECAUTIONS

### **WARNING — OZONE IS A POWERFUL OXIDIZER**

This product generates ozone. Exposure controls, occupied-space restrictions, re-entry timing, medical warnings, and any maximum treatment duration must be finalized by the product owner, regulatory team, or safety reviewer before this manual is released.

### **General safety**

- Read and understand this manual before operating the product.
- Use only the specified rechargeable battery approved for this unit.
- Do not modify, disassemble, puncture, crush, or attempt to repair the product or battery.
- Do not use the unit if the housing, battery, charging port, or mounting hardware is damaged.
- Keep all fan openings and airflow paths free of obstruction.
- Do not expose the unit or battery to fire, excessive heat, or water immersion.
- Do not continue use if abnormal odor, overheating, or visible damage is observed.

### **Battery and electrical safety**

- Charge the battery only through the intended USB-C charging interface on the approved battery pack.
- Do not use damaged charging cables, damaged adapters, or visibly damaged batteries.
- Do not short battery terminals or substitute non-approved power sources.

### **Use limitations**

- Do not open the generator housing.
- Do not block the air outlet or fan intake.
- Do not immerse the product in water.
- Do not leave the unit installed insecurely where it can fall from height.

### **OPEN ITEM — FINAL SAFETY LANGUAGE STILL MISSING**

This draft should not be treated as the final consumer safety section. At minimum, the final release still requires ozone exposure statement, intended-use environment, prohibited-use environment, re-entry guidance, child safety statement, battery disposal warning, and any region-specific chemical or Proposition 65 text.

## BATTERY, MAINTENANCE, AND TROUBLESHOOTING

### Basic maintenance

- Turn the unit off before cleaning or inspection.
- Keep air inlets and outlets free of debris.
- Clean exterior surfaces with a soft dry cloth or a lightly dampened cloth.
- Do not use solvents, abrasive cleaners, or aggressive chemicals.
- Periodically inspect mounting hardware and battery condition.

### Quick troubleshooting

| Problem                  | Possible cause                                   | Direct action                                |
|--------------------------|--------------------------------------------------|----------------------------------------------|
| Unit does not turn on    | Battery is discharged or not installed correctly | Charge battery, reinstall it, and try again. |
| Unit shuts off by itself | Clean mode completed its timed cycle             | This is normal behavior in Clean mode.       |
| Mode does not change     | Unit is off or Mode was not actuated correctly   | Turn the unit on and press Mode again.       |

### Key specifications

| Item                  | Current draft value               |
|-----------------------|-----------------------------------|
| Product name          | Muddy Ozone Generator 300         |
| Power source          | 12 V rechargeable lithium battery |
| Battery capacity      | 5000 mAh                          |
| Operating current     | < 850 mA                          |
| Standby current       | < 10 $\mu$ A                      |
| Expected runtime      | 10 hours in Standard mode         |
| Operating temperature | -20 °C to 60 °C                   |

### Regulatory and disposal status

| Item                      | Status in source package         |
|---------------------------|----------------------------------|
| FCC                       | Referenced                       |
| ISED / IC                 | Referenced                       |
| UN38.3                    | Referenced for battery           |
| IP rating                 | Listed only as IPXX — not final  |
| California Proposition 65 | Referenced                       |
| RoHS                      | Not marked approved in the draft |
| Item                      | Status in source package         |
| WEEE                      | Not marked approved in the draft |

## REGULATORY AND RELEASE GAPS

### Compliance status reported in source draft

#### **SOURCE CONFLICT**

UN38.3 is not checked in the early compliance checklist, but it is listed later as the certification for lithium batteries. Verify final battery compliance status.

#### **INFORMATION REQUIRED**

IP rating is still shown as IPXX, not a final protection level. Do not publish a final water / dust claim until IP testing is closed.

### Pre-release completion checklist

- Insert approved ozone exposure warning language.
- Confirm exact retail box contents and mounting hardware list.
- Confirm remote specifications: range, battery, environmental rating, and pairing limits.
- Confirm final IP rating and compliance declarations.
- Close out battery transportation and recycling language.
- Add final warranty, customer support, and disposal text.

## FCC STATEMENT

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radiocommunications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

### IC warning

- English:

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference; and

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

- French:

Cet appareil contient des émetteurs / récepteurs exemptés de licence conformes aux RSS (RSS) d'Innovation, Sciences et Développement économique Canada. L'exploitation est autorisée aux deux conditions suivantes :

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radio électrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement."