

PORTABLE OZONIZER

Instruction manual



PORTABLE OZONIZER

CH-KTA/CH-KTB/CH-KTM

CH-BP/CH-BT/CH-BS/CH-ZTW/CH-DP

INSTRUCTION MANUAL

VERSION:1.2

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DEVICE CONFIGURATION FUNCTION

Chuanghuan portable ozonizer is widely used to sterilize, disinfect and eradicate odours from places such as households, businesses, offices, hotels, food processing stations, etc. Operating the device is simple and practical. Stable ozone output is a necessary condition for the machine to operate. The various models of portable ozonizer feature the following functional configurations:

MODELS	KTA	KTB	KTM	BS	BT	BP*	ZTW*	DP*
CONFIGURATION								
Ship type power switch	•	•	•	•	•	•	•	—
Film power switch	—	—	—	—	—	—	—	•
Compressor switch	—	—	—	—	—	•	—	—
Ozone output adjustment	•	•	—	•	•	•	•	—
Mechanical timer	•	•	•	•	•	•	—	—
Electronic time controller	—	—	—	—	—	—	•	—
Circulating time control module	—	—	—	—	—	—	—	•
Power indicator light	•	—	•	•	•	•	•	•
Ozone indicator light	•	—	•	•	•	•	•	•
Compressor working indicator light	—	—	—	—	—	•	—	—
Ozone output	•	•	•	•	•	•	•	•
External gas source input	—	—	—	—	—	•	•	—
External airflow meter	—	—	—	—	—	—	•	—
Ampere meter	—	—	—	—	—	—	•	—
Remote control	—	—	—	—	—	—	—	•
Anion function	—	—	—	—	—	—	—	—

Note: Ozone generation output settings (oxygen source calibration) are: 3 g, 5 g, 6 g, 7 g. Customers can choose according to their requirements.

GENERAL OPERATING INSTRUCTIONS

TO CONSIDER BEFORE PROCEEDING


Location	Make sure this device is placed more than 10 cm from walls and/or other equipment. Do not use block or cover the ventilation system or the other openings of the equipment. Doing so may cause internal overheating, damage the equipment or prevent it from producing ozone.
	Place the equipment on a stable and shock-resistant surface, strong enough to support its weight. Overturning the device may damage its internal components.
	Do not use this equipment in high humidity, excessive dust, direct sunlight, outdoor or near sources of heat. Using this equipment in such locations may result in fire and/or electric shock and may affect the production of ozone. The suitable humidity for ambient temperatures of 0-35 degrees Celsius is 10%-80% (no frost)
	Do not use this equipment on thick mats or rugs. If fibers or dust get into the device, a fire could occur.
	Please do not place this equipment device next to equipment containing magnets or magnetic field generators.
	Do not use flammable sprays near this equipment or place this equipment next to flammable solvents such as alcohol, thinners, etc. Should the electrical parts inside the appliance come into contact with flammable substances, fire or electric shock could occur.
	Place your device out of children's reach
Cleaning and maintenance	Before cleaning the device, first turn off the power and unplug the power plug from the electrical outlet. Accidentally starting the device during cleaning may result in personal injury or damage to your equipment.
	Please use a dry cloth to clean the device. Do not use flammable solvents such as alcohol, benzene or thinner to clean the equipment. If the device's internal parts come into contact with flammable solvents, this may result in a fire or electrical shock.
	Periodically unplug the device's plug and use a dry cloth to wipe any dust from the power plug and dirt from the socket.
	Do not attempt to repair, disassemble or modify the device. The device does not have any user-serviceable parts. This equipment contains high-voltage parts, please do not attempt any maintenance actions not stated in this manual. Inappropriate maintenance actions may damage the device or cause a fire, electric shock, and personal injury.
	Do not repair the equipment on their own. When a device fails, please contact your local dealer.
	Inserting metal objects (such as staples, pins,...) or dropping water, liquids or flammable substances inside the appliance may cause injury to persons, electric shock or fire. Therefore, in case of accidental insertion of such objects or spillage of such liquids, switch off the device immediately making sure your hands are dry, disconnect the power cord and contact your local dealer.

Power supply	Check on the plate the type of power source required to use the device to prevent fire, electric shock or mechanical failure. If you cannot determine the type of power available, consult your local power company. * Based on the country of the purchased products, the shape of the socket and plug may be different.
	Please do not plug this equipment to the electrical outlet plug when wet. This may result in electric shock.
	Be sure the plug is fully inserted into the power supply socket. If the plug pins come into contact with metal objects, this may result in fire or electrical shock.
	Do not damage, modify, stretch, bend or twist. Do not place heavy objects on the power cord. These actions could result in a fire or electrical shock.
	Please do not share the outlet with other devices (such as extension cords or 2-way or 3-way adapter). This may result in a fire or electrical shock.

OPERATING INSTRUCTIONS

1. Unscrew the bolted cap on "ozone output"



connect with the equipped corrosion resistance hose .

Then screw the bolted cap back, lead the hose to the place where ozone is needed.

Attention: Make sure the ozone output hose is smooth, without knots. Do not direct the ozone output directly towards people.

2. Connect power.



3. Turn on "power switch" (The power supply and ozone indicator lights up).

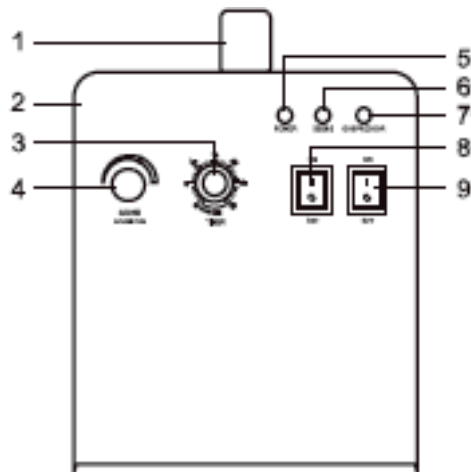


4. Set the "timer" according to need time. Rotate clockwise to set the time from 0 to 30 minutes. When the time is up, the machine will stop working automatically. Rotating anticlockwise to ON will make the machine will work continuously. Shutting the power off will stop the machine.

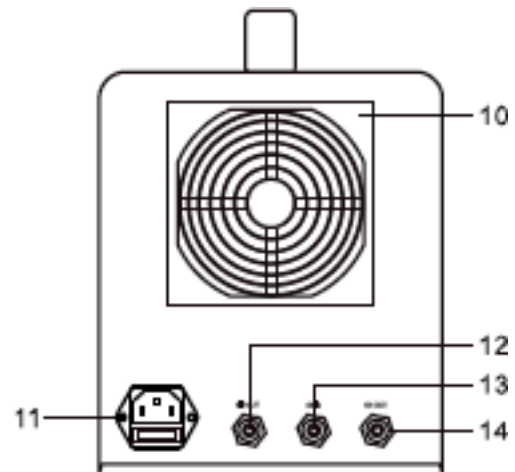


5. Adjust the "ozone output" according to the needed of ozone production. The equipment is set to maximum output before delivery, customers can adjust the ozone output according to their needs. For example, the machine with 3 g ozone output is set to 100% output before delivery. Customers can rotate the knob anticlockwise to adjust the ozone output to 20%

BP SERIES OPERATION INSTRUCTIONS




2-1 Front panel




2-2 Rear panel

1. Handle
2. Box
3. Timer
4. Ozone adjuster
5. Power indicator
6. Ozone indicator
7. Gas source indicator

8. Ozone on/off
9. Gas source on/off
10. Dustproof filter
11. Power Line
12. Gas outlet
13. Gas inlet
14. Ozone outlet

1. The machine uses its own air source before delivery. In addition to operating the machine in accordance with the “general instructions”, you also need to turn on the air source switch . Connect as in this picture: .


If you need to use external air source (oxygen generator or oxygen tanks), as the picture shown,  connect the silicone tube with the oxygen generator or oxygen tanks, and turn off the air source switch.

2. If an external air source is used, the oxygen flow cannot be interrupted or stopped when the machine is in normal operation. Use the oxygen pressure reduction valve when using oxygen tanks. It is forbidden to use the industrial pressure reducing valve for high pressure as a result of 18Mpa oxygen pressure. In order to avoid cases of oxygen cylinder explosion, a test instrument should be installed in the oxygen supply pipe to test the alarm system.

Note: see other operating methods in the related “general instructions” section.

ZTW MANUAL

1. ZTW series of external gas source type. Gas supply should be clean, dry air or oxygen.

As shown , O₂ IN connection with the use of silicone hose with oxygen or gas cylinders, the export of ozone O₃ OUT and silicone tube connected to the desired place.

2. In a device under normal operating conditions, oxygen is not interrupted or stopped when the oxygen source is used. The design and operation of the safety standards must comply strictly with safety regulations. In case of using oxygen, what is in the oxygen cylinder is considered as the gas source. When using the oxygen cylinder, please use the oxygen pressure reduction valve. It is forbidden to use the industrial pressure reducing valve for high pressure as a result of the 18Mpa oxygen pressure. In order to avoid cases of oxygen cylinder explosion, a test instrument should be installed in the oxygen supply tube to test the alarm system.

3. Set the working time:

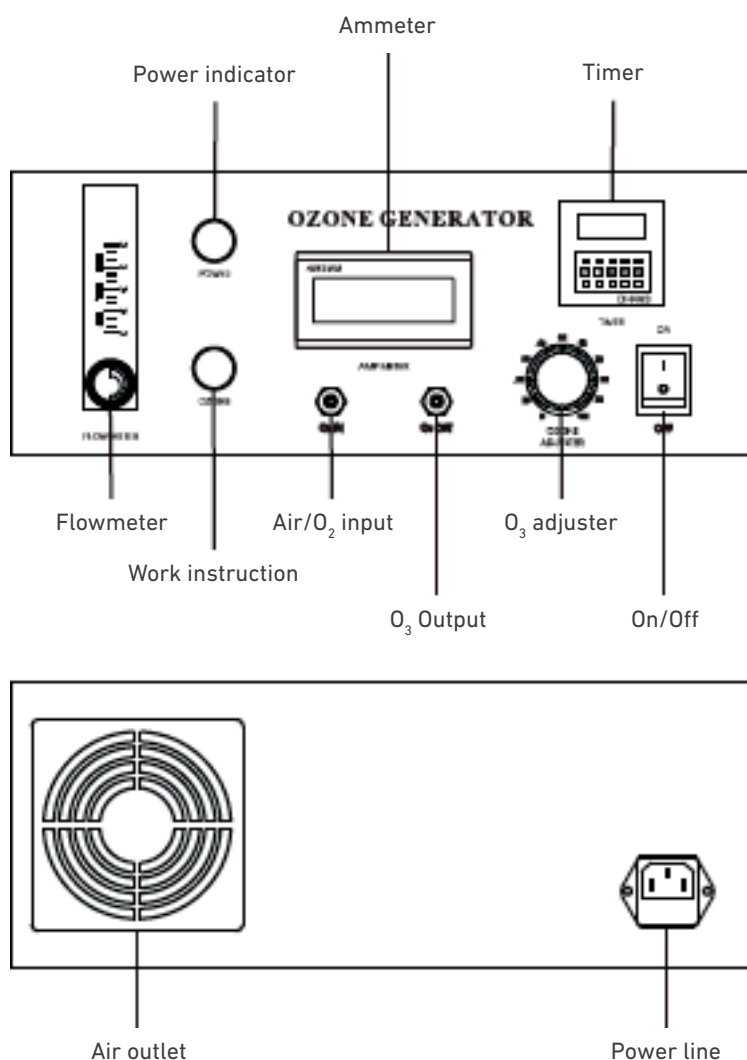


The letters in the middle of timer H/M/S, represent the hour / minute/second respectively.

The longest time you can set is 99h 99m. When the intermediate letter is H, it will show the number of hours on the left, and the number of minutes on the right; when the letter is M, it will show minutes on the left, and seconds on the right.

Working time is preset 30 minutes out of the box customers can reset the needed working time following the steps described above.

Note: for other operating methods please refer to the “general instructions” section.



DP SERIES MANUAL

Panel Operation Instruction:

1. "MODE" 3 kinds of working model. F1, F2-1 and F2-2.

Mode F1 = set a limit work time

Mode F2-1 = work - downtime cycle

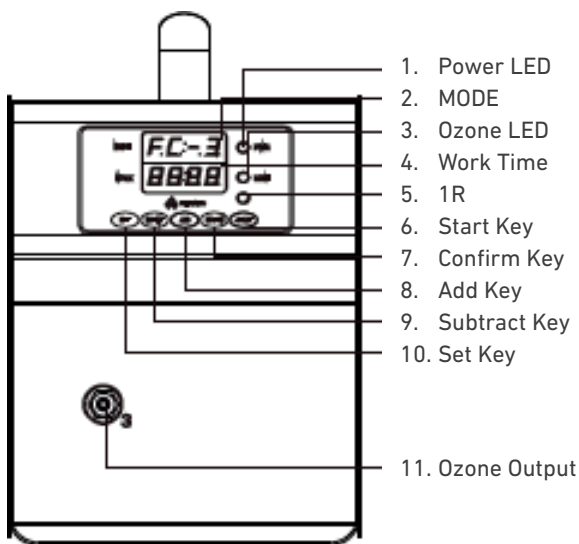
Mode F2-2= downtime-work cycle

2. "Time" Show the running time of each working mode.

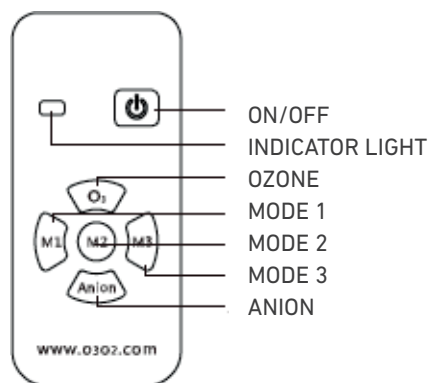
3. The power indicator: Work status - lamp always being on;

Downtime status - lamp flashing.

4.Ozone indicator: Downtime status - lamp off, work status - lamp on, stop work status - lamp flashing.

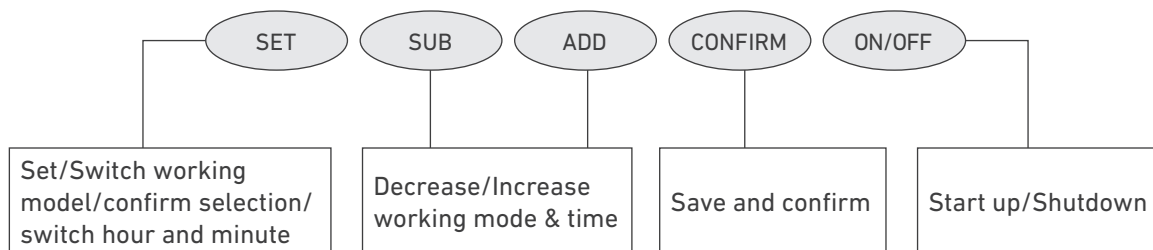


REMOTE CONTROL



DP models are equipped with the first generation of the remote control. You can select the device remote control mode that corresponds to F1 operation mode MODE1, MODE2 F2-1 corresponding operating mode, MODE3 F2-2 corresponding operating mode. O3 and Anion function keys above applies to the DP Series II models on the remote control.

PANEL FUNCTION KEYS INSTRUCTION:



1. Checking status: automatic checking voice (slower beeping); Ozone indicator ("OZONE" Lamp flashing)

2. From 00:01 to 99:59 hours of operation can be set freely.

3. Press optional key to exit and shutdown status.

4 Start up delay time:15 seconds after start up, ozone output, Ozone indicator light on. Shutdown delay time:30 seconds before shutdown, no ozone output. Ozone indicator light flashing.

Noted: If the machine has been running for less than 15 seconds, briefly press the ON/OFF key. The machine stops working, the ozone indicator light goes off.

WORKING MODE OPTION AND SETTING

1. Working mode option

Briefly press the "SET" key to cycle through three working modes.

Eg: the system default working mode is F1 (working limited):

1) Briefly press "SET" key to switch to F2-1

2) Briefly press "SET" key to switch to F2-2

3) Briefly press "SET" key to switch to F2-1

Press "confirm" key to choose the working mode you want. After finishing the setting, the current working mode is the machine's

2. Working mode setting

Step 1: mode option

Power on, short press "SET" to choose the three working mode(F1\F2-1\F2-2),then short press "confirm" key.

Step 2: time setting

Long press "SET" key, then after hearing a long beep:

Setting hour: short press "SET" key, the nhouT light is flashing. You can press "ADD" or "SUB" key to set hour.

Setting the minutes: short press "SET" key, the "minutes" light is flashing. You can press "ADD" or "SUB" key to set the minutes.

After finish setting, then short press "confirm" key.

Step 3: working

Short press "on/off key, machine works as the mode setting.

APPLICATION

Space sterilization Reference Table

No.	Ozone output	Suggested space	Working time
1	3g/h	10m ²	20-30 minutes
2	5g/h	10-15m ²	20-30 minutes
3	6g/h	15-20m ²	20-30 minutes
4	7g/h	15-20m ²	20-30 minutes

Water sterilization Reference Table

No.	Ozone output	Water volume	Working time
1	3g/h	10L	10-20 minutes
2	5g/h	10L	10-20 minutes
3	6g/h	10L	10-15 minutes
4	7g/h	10L	10-15 minutes

Note:

- 1 .When using aeration stone for water sterilization, put aeration stone sink to the bottom, moving the stone make water aeration uniform.
2. For meat, vegetable or fruit to the water sterilization, the items should be placed in the aeration zone.
3. When using the ejector, this should be installed in the rear end of the waterway ejector valve water through the valve first and then through the ejector

Other space sterilization Reference Table

No.	Ozone output	Shoe Cabinet	Wardrobe	Bookshelf
1	3g/h	5-8 minutes	8-12 minutes	5-6 minutes
2	5g/h	5-8 minutes	8-12 minutes	5-6 minutes
3	6g/h	3-5 minutes	5-8 minutes	3-5 minutes
4	7g/h	3-5 minutes	5-8 minutes	3-5 minutes

AFTER-SALES SERVICE

Warranty is one (1) year from the date of purchase

This product undergoes a rigorous test before ex-works. Any showing under normal operation conditions will be repaired or replaced free of charge by our company with this warranty card after it is checked by our company as the case start from the date of purchase.

Following conditions are not covered by the warranty:

Dismantling by user and operating not in accordance with instruction listed in instruction manual. Altered power supply or voltage leading to the damage of the machine. Damages caused by human factors or natural disasters are not covered by the warranty.

If any part is replaced during repair process, only its material cost is charged and no labor cost is charged after warranty ends.

The final interpretation rights of the after-sales service and the instruction manual belong to our company.

PACKING LIST

- 1 Silicon tubing 2M (Including model: KTA\KTB\KTM\BS\BT\BP\DP); Teflon tube 2M (ZTW);
- 2 Air stone 2 PCS (Including model: KTA\KTB\KTM\BS\BT\DP);
- 3 Power line 1 PC;
- 4 3A Fuse 2 PCS;
- 5 Instruction Manual 1 PC.

APPENDIX

Portable ozonizer parameter

Model	Gas flow rate L/mim	Ozone output g/h	Power ff	Output gas tube mm	Fuse A	Voltage V/Hz	External Size mm	Net kg
CH-KTA	10	3	80	ø 6	3	220/50	320x175x265	5.3
CH-KTB	10	5	90	ø 6	3	220/50	320x160x275	4.8
CH-KTM	10	5	90	ø 6	3	220/50	320x170x270	5.5
CH-DP	10	5	85	ø 6	3	220/50	340x175x275	5.8
CH-BS	10	6	110	ø 6	3	220/50	370x160x295	5.6
CH-BT	10	6	110	ø 6	3	220/50	365x165x275	6.1

CH-BP - Portable ozonizer

Model	Gas flow rate L/mim	Ozone output g/h	Power ff	Output gas tube mm	Fuse A	Voltage V/Hz	External Size mm	Net kg
CH-BP3G	45	3	no	ø 6	3	220/50	390x230x310	8.6
CH-BP5G	45	5	120	ø 6	3	220/50	390x230x310	8.6
CH-BP6G	45	6	140	ø 6	3	220/50	390x230x310	8.8
CH-BP7G	45	7	150	ø 6	3	220/50	390x230x310	8.8

CH-ZTW - Desktop Lab ozonizer

Model	Gas flow rate L/mim	Ozone output g/h	Power ff	Output gas tube mm	Fuse A	Voltage V/Hz	External Size mm	Net kg
CH-ZTW3G	1	3	80	ø 6	3	220/50	400x370x150	6.5
CH-ZTW5G	1	5	90	ø 6	3	220/50	400x370x150	6.5
CH-ZTW6G	2	6	110	ø 6	3	220/50	400x370x150	6.6
CH-ZTW7G	2	7	120	ø 6	3	220/50	400x370x150	6.6

1. Above ozone capacity were tested under oxygen source

2. Net weight will be 10% different for different plug. The specific parameter configurations are subject to the real object.



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