REPA
THE SPARE PARTS GROUP

OZONE MACHINE CH-T

Instruction manual

OZONE MACHINE
CH-T

SAFETY ATTENTIONS AND PRECAUTIONS

Please read safety warnings and precautions provided in this instruction manual carefully in order to use the equipment safely. Do not try to use it in any way which is not described in this instruction manual

Installation Location	Never put this equipment near a flammable solvent such as alcohol or thinner. It might cause fire or electric shock if electrical parts within the equipment come into contact with flammable material.
	Do not try to block or cover ventilation port or any opening of the equipment. Otherwise it may lead to overheat within the equipment, resulting in machine damage and no ozone produced.
	Install this equipment onto a steady plane which can withstand earthquake and support its weight. It might damage the equipment if it is tilted over.
	Never install this equipment at a place where has high humidity, dust, under direct sunlight, near a heat source or outdoor.
	It might lead to fire, electric shock and no ozone produced if installed in such a place.
	The ambient temperature should be 0 - 35° to avoid the risks of fire or electric shock.
	The equipment should be installed at a place with a humidity of 10 - 80% (with no frost).
Power supply	Do not damage, modify, stretch, bend or twist the power supply cord. Do not put heavy goods on it. These behaviors might cause fire or electric shock.
	It must use the type of power supply specified on the label of the equipment to operate it. Otherwise it might lead to fire, electrical shock or machine failure. You may consult a local power company if it is not sure which type of power supply can be used.
	The shape of plug and socket may be different based on products purchased at different countries.
Maintenance	It is equipment with high-voltage. It should not be dismantled by maintenance persons who are not from COEA in order to avoid unexpected dangers.The power supply must be turned off and the plug be removed from the socket before cleaning the equipment.
	It might lead to personnel injury or damage the equipment during its cleaning if it is not turned off or it is turned on carelessly.
Operation	Never try to dismantle or modify this equipment. There is no any parts and components within it which can be repaired by user himself.
	This equipment has high-voltage components in it. Never try to operate or maintain it by ways which are not indicated in this instruction manual.
	Improper ways of maintenance and operation of this equipment might lead to its damage or fire and electrical shock.

Operation	Please check if the power supply meets the requirement of this equipment and if cooling water is turned on (for water cooling type) before its use.
	It is prohibited to let the ozone outlet be idle or face persons.
	Space sterilization should be carried out with nobody in it. It is only after 40 minutes are people allowed to enter it.
	The installation location of the equipment with water-cooling (its lowest bottom) should be higher than the plane level.

INTRODUCTION TO THE EQUIPMENT

High ozone concentration at the outlet: Ozone concentration at the outlet can reach up to 30- 60mg/L and maximum to 110mg/L (oxygen source). It uses high dielectric composite ceramic with 80 - 90 high dielectric constant, resulting in high ozone concentration at the outlet.

Corrosion-resistant which is suitable for an ozone environment: It uses ozone corrosion- resistant materials. It can be used in an ozone environment for long term.

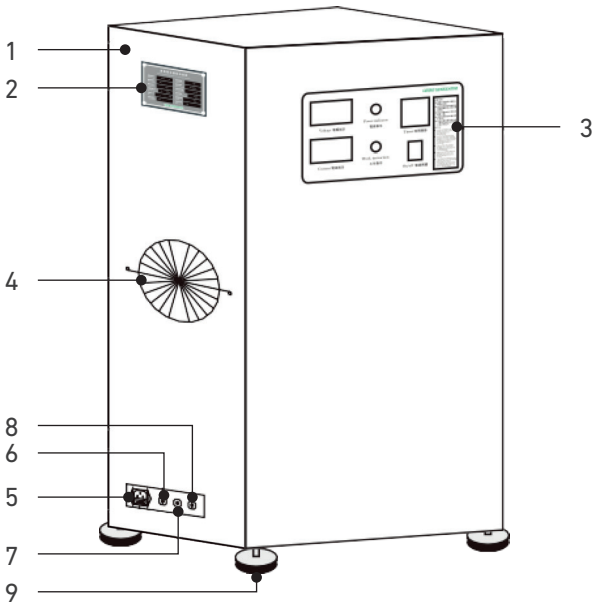
Stable ozone production: The built-in air-cooled system ensures that heat produced during ozone generating will be dispersed quickly, thus resulting in stable ozone production.

Stainless steel shell: The entire machine uses stainless steel shell which is easy to clean and ozone resistance.
Compactness with low noise level

INTRODUCTION TO CERAMIC OZONE GENERATOR TUBE:

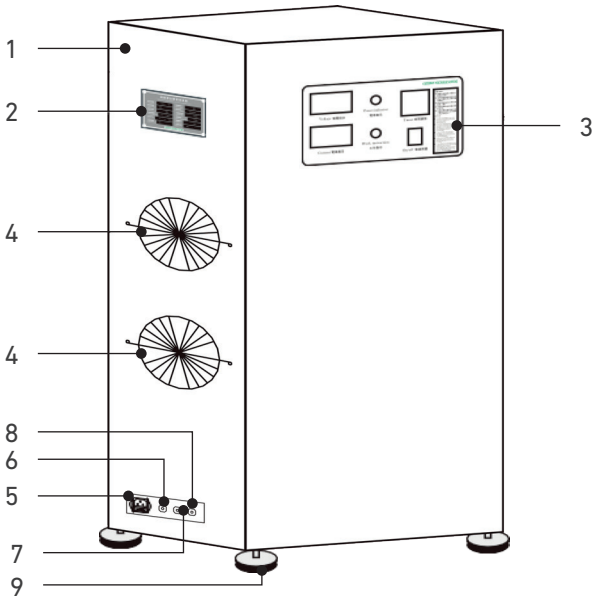
- High-efficiency: 40-110mg / L, which is 4 ~ 5 times higher than that produced by using conventional technology;
- Low power consumption: Corona is discharged by high-frequency with a power consumption rate of 8 ~ 10KW.h/kgO3;
- Compactness: It effectively saves space. The unit volume of high-purity ceramic ozone generators produced by COEA is 1/3-1/4 smaller than the products with the same output made by other producers;
- Heat resisting: It is made of imported high-purity sintered ceramic materials with internal electrode and fasteners made of 316 stainless steel. It uses PTFE and high-purity silicone rubber materials. It will not be damaged under normal operation conditions;
- No breakdown: The working voltage of the generator tube is only 10% of its breakdown voltage. It has high dielectric constant with low loss;
- Cooling: The generator tube has low temperature rise. It uses: a. internal pole is cooled by water and external pole by air, b. both internal and external poles cooled by air. It has a very low rate of ozone output decay during continuous working;
- Wide adaptive voltage: Ozone is produced at 50V and it reaches effective point at 200V with easy adjustment of ozone output (with open type of high-frequency power supply);

EXTERNAL VIEW OF THE MACHINE



CH-T

1. Machine case
2. Nameplate
3. Control panel
4. Radiator fan mesh enclosure
5. Power supply interface
6. Air output
7. Air input
8. Ozone output
9. Machine feet (height adjustable)



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2. Nameplate
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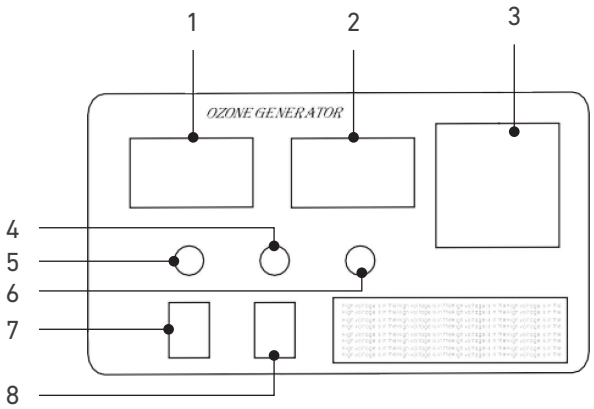
OPERATION INSTRUCTIONS



1. Voltage
2. Ammeter
3. Timer
4. Pump instruction
5. Ozone instruction
6. Power indicator
7. Ozone On/off
8. Pump On/off

INTRODUCTION TO CERAMIC OZONE GENERATOR TUBE:

1. The ozone generator should be installed onto a steady plane which can withstand earthquake and support its weight before its use.
2. Connect “air output” and “air input” by hoses and open the “air switch” (light is ON). If the oxygen source is used, “air source input” should be connected with oxygen output by a hose and turn off the “air switch” (light is Off).
3. If it is a water-cooling type, please connect the water inlet” with the “water outlet” of the circulating water and pay attention not to connect in a wrong way. Turn on the circulating water to let it circulate normally.
4. Check the equipment’s correction connection: Check whether the air source is correctly connected (with no hoses twisted, knots and suffocated), whether the circulating water flows and to ensure that there is no leakage. The hose at the “ozone output” outlet has twist, knot and suffocation as that for water treatment. Check whether the “ozone output” tube is connected with the air inlet of the ejector.
5. Turn on the power supply switch after its running time is set up and the machine starts to work and generates ozone.

Note: The oxygen source and the circulating water can not be interrupted or shut down if it uses oxygen as its air source and the way of water-cooling.

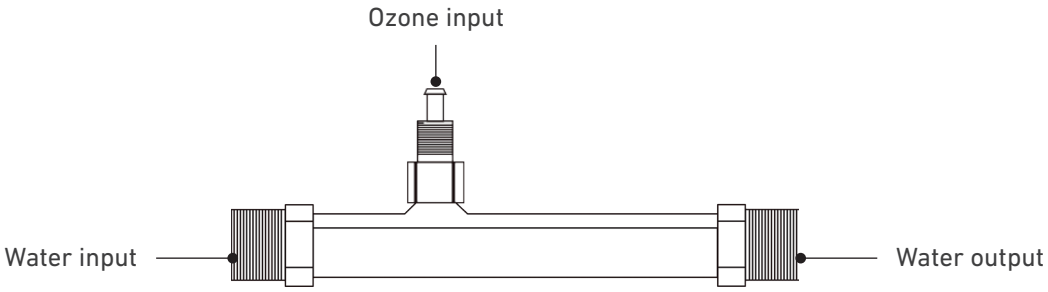
SPECIFICATIONS

Number	Ozone output	Dimensions (mm)	Power	Cooling	Ozone
CH-T-2G	2g/h	360x260x610	110W	Air cooling	Ceramic Ozone Generators
CH-T-3G	3g/h	360x260x610	120W		
CH-T-5G	5g/h	360x260x610	140W		
CH-T-6G	6g/h	360x260x610	150W		
CH-T-10G	10g/h	360x260x610	240W		
CH-T-12G	12g/h	400x280x800	270W		
CH-T-15G	15g/h	400x280x800	400W		
CH-T-20G	20g/h	400x280x800	550W		

AFTER-SALES SERVICE

1. Warranty is one (1) year from the date of its purchase.
2. This product undergoes a rigorous test before ex-works. Any fault 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 its purchase.
3. Following conditions are not covered by the warranty.
4. Dismantled by user himself and did not operate in accordance with instructions listed in instruction manual. The power supply or voltage is altered at will which leads 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 charged after warranty ends.
5. The date on the warranty card and the date of purchase invoice will be the certificate for one (1) year warranty with free of charge repair.
6. The final interpretation right of the after-sales service and the instruction manual belong to our company.

ANNEX MATCHING EJECTOR



Note: Air and water mixing auxiliary for water treatment is available per the choice of customer's needs.

ADDING OZONE TO DIFFERENT WATER QUALITIES

Purified water	Treatment: add2-3g/h ozone/ton water.
Drinking water	Treatment: add2g/h ozone/ton water.
Neutral water	Treatment: add4-5g/h ozone/ton water.
Sewage	Treatment: add4-5g/h ozone/ton water.
Sterilized water	Treatment: add8-10g/h ozone/ton water.

Please read the instruction manual carefully before using the machine.
Please keep it in a safe place for future reference.

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