

Ozone generator



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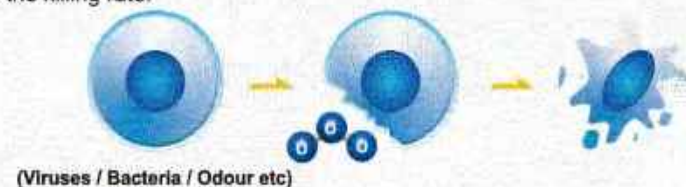
ADVANTAGES OF OZONE DISINFECTION

Ozone as an efficient and broad-spectrum gas disinfectant without residual pollution, has special advantages over disinfectants commonly used in food industry. Compared with chemical disinfectants such as peracetic acid, potassium permanganate, formaldehyde and sulfur dioxide, its bactericidal ability is equivalent to peracetic acid. Ozone can directly sterilize or prevent mildew and keep fresh food, which is dry disinfection, harmless to food and simple. Because of its strong gas permeability, disinfection is not easy to leave a dead angle and will decompose into oxygen by itself, and no residual pollution will be produced.

Ozone can be used to decolorize wastewater, and the chromophoric groups in colored substances are: vinyl, azo, oxidized azo, antelope, sulfur antelope, nitro, sub-brick, etc. Ozone can open their unsaturated bonds and make them lose their color rendering ability.

Ozone can also oxidize cyanide in electroplating wastewater. Ozone affects inorganic metal ions such as Fe^{2+} , M^{2+} and so on are all similar to chlorine gas, which is oxidized into stable precipitate. Ozone and activated carbon are used to treat wastewater at the same time. Activated carbon can catalyze ozone oxidation and reduce ozone consumption.

Ozone has a very bad odor removal performance. Its strong oxidizing performance oxidizes various odorous inorganic or organic substances to remove their odor. The main components of odor are strands, hydrogen sulfide, methyl mercaptan, dimethyl sulfide, dimethyl sulfide and so on. They can be oxidized by ozone in a few minutes to remove odor. The increase of humidity can improve the killing rate.



Ozone Sterilization Parameter Table

Type of Bacteria	CFU (10pcs / L)	Ozone Water	Working Time	Sterilization Rate
Total Bacterial Count	3.4×10	1 mg/L	1 min	100%
	N/A	1 mg/L	1 min	100%
Escherichia Coli	2.4×10	0.3 mg/L	0.5 min	100%
	1.1×10	0.23 mg/L	1 min	100%
Staphylococcus Aureus	N/A	0.3 mg/L	0.5 min	100%
	1.2×10	0.26 mg/L	1 min	100%
Aspergillus	N/A	1.5 mg/L	1 min	100%
Yeast Fungus	N/A	1.5 mg/L	1 min	100%
HBXAg: Hepatitis B Surface Antigen HBXAg	256 (++)	4 mg/L	1 min	100%

OZONE APPLICATION AREA OUTLINE



Aquaculture Water Treatment

- Deodorization
- Kill bacteria, inactivate virus
- Remove micro-pollutants, endocrine, etc.
- Remove algae, effectively kill or inhibit the growth and reproduction of algae



Swimming Pool Water Purification

- Reduce organic ingredients
- Kill bacteria, inactivate virus
- Reduce THM
- Reduce the dose of chlorine
- Enhanced clarification effect, high water quality transparency



Industrial Waste-water Treatment

- Improving biodegradability of organic matter
- Decolorization of wastewater
- Remove halides and decompose pesticide residues
- Removal of toxic components from wastewater
- Removal of surfactant and detergents discharged from washing
- Oxidation of AOX and COD after biological pre-treatment



Drinking Water Treatment

- Ozone can enhance the precipitation effect to avoid the conversion of organic matter into chloroform
- Improve the color and odor of the cited water
- Use ozone activated carbon technology to carry out in-depth purification of drinking water
- As a substitute for chlorine for drinking water disinfection



Paper Industry/Pulp Bleaching

- Substitute chlorine in pulp bleaching processing
- Avoiding environmental emissions of chlorides
- Increase the concentration of paper
- Decolorization of paper wastewater
- Reduce COD
- Reduce environmental emissions of surface activators



Food And Beverage Processing

- Disinfection of food and beverages
- Disinfection of packaging material and production lines
- Disinfection of storage and pesticides
- Fresh food preservation
- Space sterilization of food workshop
- Sterilization and disinfection of utensils, and uniform in food processing



Living-room Air Purification

- Remove odor and formaldehyde from air
- Kill mites, bacteria and virus
- Sterilization and mildew prevention
- Prevention of cross-infection of the virus



GMP Workshop

- Remove odor and sterilization for water
- Sterilization of raw material
- Sterilization of materials, tools, mold, and work uniform etc
- Disinfection of workplace space



Aquaculture Farming

- Deodorization
- Sterilization
- Growth promotion



Chemical Pharmaceutical Industry

- Oxidants in Chemical Engineering
- Strong COD oxidation
- Chemical synthesis in cosmetics and pharmaceutical industry
- Degradation of toxic and chemical components
- Sterilization and disinfection of working utensils, work uniform in pharmaceutical industry
- Sterilization of clean space in pharmaceutical industry



Aquaculture & livestock Water Treatment

- Disinfection of breeding equipment
- Drinking water (ozone water)
- Disinfection of feed
- Treatment of breeding sewage
- Remove odor from space



Exhaust Gas Treatment

- Molecular bond cleavage of bacteria in malodorous gas by strong oxidation
- To destroy the nucleic acid (DNA) of bacteria
- Strong oxidation decomposes oxygen molecules in the air to produce free oxygen
- It has an immediate effect on the removal of odor and other irritating odor
- The waste gas can be converted into harmless and odorless compounds, water and carbon dioxide by synergistic decomposition and oxidation reaction
- Odor in fur, casing and fish processing, and odor removal from rubber and chemical plants

SMALL OZONE GENERATOR



QLA-3G/5G-W PORTABLE OZONE GENERATOR

► Features

- Multi-functional, can be used for both air and water treatment
- Corona discharge technology
- 2 hours manual timer or continuous running
- Light weight compact design
- High ozone output , long service life time
- Easy to operate , portable design

► Technical Specifications

Model	Ozone Output	Power	Purify Area	Ozone Concentration	Dimension (cm)	Packing Size (cm)	NW/GW	Cooling Way	Voltage	Gas Feeding
QLA-3G	3G	60W	20-50m ²	15-25mg/L	33*16*21	38*24*21 (Carton)	3.3/3.8kg	Air Cooling	220V/50Hz	Air Source
QLA-5G	5G	80W	30-70m ²				3.5/4kg			

► Applications



Remove Formaldehyde



Remove Odour



Remove Grease And Smoking



Purify Bedroom



Bathroom Kill Bacteria



Car Air Purify



Car Store



Taxi Company



Bus Company



Office

QLA-7G-10G-C CERAMIC PLATE OZONE GENERATOR



► Features

- Long life ceramic plate
- Manual 0-120 min timer
- Portable light weight design
- Over-heat, over-voltage protection
- Inside fan cooling
- High grade stainless steel



SS201



Spray With Painting

► Technical Specifications

Model	Ozone Output	Power	Purify Area	Ozone Concentration	Dimension (cm)	Packing Size (cm)	NW/GW	Cooling Way	Voltage	Gas Feeding
QLA-5G	5G	65W	30-70m ²	15-25mg/L	33*16*21	38*24*21 (Carton)	3.5/4kg	Air Cooling	220V/50Hz	Air Source
QLA-10G	10G	120W	80-120m ²				4/4.5kg			

► Applications



Remove Formaldehyde



Remove Odour



Remove Grease And Smoking



Purify Bedroom



Bathroom Kill Bacteria



Car Air Purify



Car Store



Taxi Company



Bus Company



Office



SS201



Spray With Painting

QLA-3G/5G

VERTICAL OZONE GENERATOR

► Features

- Mobile portable design
- The fuselage is made of stainless steel, anti-corrosion and anti-oxidation
- Space disinfection, sterilization of drinking water, sterilization of articles, etc
- The tube has high conversion efficiency, low energy consumption, continuous work and long service life
- Clean dry air feeding, CE certificate

► Technical Specifications

Model	Ozone Output	Power	Purify Area	Ozone Concentration	Dimension (cm)	Packing Size (cm)	NW/GW	Cooling Way	Voltage	Gas Feeding
QLA-3G	3G	60W	20-50m ²	15-25mg/L	23*18*46.5	32*25*51 (Carton)	4.5/5.3kg	Air Cooling	220V/50Hz	Air Source
QLA-5G	5G	80W	30-70m ²							

► Applications



Remove Odour



Hospital



Kindergarten



Purify Bedroom



Bathroom Kill Bacteria



Preserved And Cured Food



Car Store



Taxi Company



Bus Company



Water Tank Disinfection

WALL-MOUNTED OZONE GENERATOR

QLA-3G/5G/10G-B

Wall-mounted Ozone Generator

► Features

- Beautiful shape, small size, does not occupy space
- Long life of generator unit, high output, low energy consumption
- Air-cooled heat dissipation, with axial flow fan to assist in heat dissipation, can be stable and continuous work
- The body is made of stainless steel, anti-corrosion and anti-oxidation
- Fast permeability, sterilization without dead ends



► Technical Specifications

Model	Ozone Output	Power	Purify Area	Ozone Concentration	Packing Size (cm)	NW/GW	Cooling Way	Voltage	Gas Feeding
QLA-3G	3G	60W	30-60m ²	15-25mg/L	50*16*20	3.4/4.2kg	Air Cooling	220V/50Hz	Air Source
QLA-5G	5G	80W	50-80m ²						
QLA-10G	10G	140W	80-120m ²		60*23*27.5	8.5/9.8kg			

► Applications



School/Kindergarten



Entertainment Places



Food Production



Cold Storage/Warehouse



Aseptic Room

HOUSEHOLD OZONE GENERATOR



QLA-500MG-D DIGITAL

■ Gold ■ White

► Features

- MDigital display, intelligent timing
- Adopt epoxy resin, vacuum encapsulated high voltage module, moisture resistant, shock resistant
- Original ABD engineering plastic, high hardness, good cleanliness



QLA-400MG MANUAL

► Features

- MDigital display, intelligent timing
- Adopt epoxy resin, vacuum encapsulated high voltage module, moisture resistant, shock resistant
- Original ABD engineering plastic, high hardness, good cleanliness

► Functions

- Quickly decompose pesticides in fruits & vegetables.
- Remove a myriad of odors from smoke, pets, animals, cooking, mold, mildew, etc.
- Keep air fresher and cleaner for hotel, motel rooms, vehicles, cars, etc.
- Refrigerator sterilization and keep food fresh for longer time
- Remove hormone and other additives from meat, remove fishy smell, virus from seafood
- Skin care and facial for women, to clear away pore dirt, bacteria and prevent freckles, etc.



► Technical Specifications

Model	Timer	Timing	N.W	Dimension(cm)	Ozone Output	Power	Voltage
QLA-400MG	Manual Timing	0-30Min Digital	0.65kg	21.5*28*6	400mg/Hr	15W	220-240V/50-60Hz
QLA-500MG-D	Smart Timer	0-30Min Digital	0.9kg	27*16.5*5.5	500mg/Hr	18W	

COMMERCIAL AND INDUSTRIAL USE AIR SOURCE OZONE GENERATOR



AIR FEEDING OZONE GENERATOR



QLA-10G-M

SPACE DISINFECTION, WATER DISINFECTION

► Features

- Quartz glass tube, corona discharge technology
- Unique air-cooled technology
- High grade stainless steel housing, atmospheric and beautiful, durable
- High conversion efficiency, low energy consumption, long service life
- Compatible with air or external oxygen source
- Air compressor integrated, digital timer

► Technical Specifications

Model	Ozone Output	Power	Purify Area	Ozone Concentration	Dimension (cm)	Packing Size (cm)	NW/GW	Cooling Way	Voltage	Gas Feeding
QLA-10G-M	10G	140W	0-200m ²	Air Source: 15-25mg/L External Oxygen Source: 90-120mg/L	32*25*52	41*32*57.5 (Carton)	10/11.5kg	Air Cooling	220V/50Hz	Air Source (Accept External Oxygen Source)

► Applications



Food Processing Industry



Beverage Processing



Cold Storage



Pharmaceutical Industry



Pharmaceutical Industry



Farming



Drinking Water



Fruit And Vegetable Processing



Swimming Pool



Germ-free Room



QLA-10G-D(SMART)

INTELLIGENT PORTABLE OZONE GENERATOR

► Features

- Corona discharge with quartz tube, 20,000 working hours
- High grade Stainless steel housing
- Multi-line screen LCD, micro-computer automatic control
- Remote controller operation
- Adjustable ozone output, 10-100% 0-24 Hours intelligent time-control design
- Automatically fan delay shutting down control for protecting ozone tube

► Technical Specifications

Model	Ozone Output	Power	Purify Area	Ozone Concentration	Dimension (cm)	Packing Size (cm)	NW/GW	Cooling Way	Voltage	Gas Feeding
QLA-10G-D	10G	140W	0-200m ²	Air Source: 15-25mg/L External Oxygen Source: 90-120mg/L	32*25*54	41*32*57.5 (Carton)	8.2/10kg	Air Cooling	220V/50Hz	Air Source (Accept External Oxygen Source)

► Applications

Fruit and vegetable preservation, food workshop, cosmetics workshop, pharmaceutical factory, cultivation of bacteria and so on.



Food Processing Industry



Beverage Processing



Cold Storage



Pharmaceutical Industry



Pharmaceutical Industry



Farming



Drinking Water



Fruit And Vegetable Processing



Swimming Pool



Germ-free Room



QLA-15G/20G/30G/40G AIR FEEDING OZONE GENERATOR

► Features

- With ozone concentration regulation function
- The fuselage is made of stainless steel, anti-corrosion and anti-oxidation
- Multifunctional disinfection of space and drinking water
- The tube has high conversion efficiency, low energy consumption, continuous work and long service life
- Air cooling + water cooling double cooling system ensures long time stable operation of main engine

► Technical Specifications

Model	QLA-15G	QLA-20G	QLA-30G	QLA-40G
Ozone Output	15G	20G	30G	40G
Power	250W	280W	350W	400W
Purify Area	50-100m ²	150-250m ²	200-300m ²	250-350m ²
Ozone Concentration	Air Source:15-25mg/L / External Oxygen Source:60-120mg/L			
Dimension(cm)	40*30*62	40*30*62	40*30*72	50*40*88
Packing Size(cm)	49*37*67.5(Carton)	49*37*67.5(Carton)	40.5*51*77(Wooden Box)	50*60*95(Wooden Box)
NW/GW	14.2/16.4kg	15/17.1kg	16.4/25kg	39/44kg
Cooling Way	Air Cooling	Air Cooling	Water-cooling	Water-cooling
Voltage	220V/50Hz			
Gas Feeding	Air Source(Accept External Oxygen Source)			

► Applications



Food Processing Industry



Beverage Processing



Cold Storage



Pharmaceutical Industry



Pharmaceutical Industry



Farming



Drinking Water



Fruit And Vegetable Processing



Swimming Pool



Germ-free Room



QLA-50/60/80/100/150/200G(CTO) AIR FEEDING OZONE GENERATOR

► Features

- With ozone concentration regulation function
- The fuselage is made of stainless steel, anti-corrosion and anti-oxidation
- Multifunctional disinfection of space and drinking water
- The tube has high conversion efficiency, low energy consumption, continuous work and long service life
- Air cooling + water cooling double cooling system ensures long time stable operation of main engine

► Technical Specifications

Model	QLA-50G	QLA-60G	QLA-80G	QLA-100G	QLA-150G	QLA-200G
Ozone Output	50G	60G	80G	100G	150G	200G
Power	600W	650W	950W	1040W	1700W	2300W
Purify Area	300-400m ²	350-450m ²	400-500m ²	500-700m ²	500-700m ²	500-700m ²
Ozone Concentration	Air source:15-25mg/L / External oxygen source:60-120mg/L					
Dimension(cm)	50*40*91	50*40*91	50*40*123	50*40*123	60*50*138	60*50*138
Packing Size(cm)	50.5*61*99	50.5*61*99	60.5*51*132	60.5*51*132	75*60*150	75*60*150
NW/GW	39/44.3kg	39/44.3kg	42.9/60kg	44/61kg	/	95/108kg
Cooling Way	Water-cooling	Water-cooling	Water-cooling	Water-cooling	Water-cooling	Water-cooling
Voltage	220V/50Hz					
Gas Feeding	Air Source(Accept External Oxygen Source)					

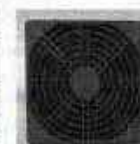
► Detail display



Control Panel



Ozone Board System



Cooling Fan

OXYGEN SOURCE HIGHT CONCENTRATION OZONE GENERATOR



QLO-10/15/20/30/40/50/60G OXYGEN SOURCE OZONE GENERATOR

► Features

- The machine has built-in oxygen generating unit, high ozone concentration, ozone generating unit, no oil and air pressure, The machine is filtered and the equipment can be powered on.
- The operation is convenient and simple. With the use of the system, ozone is continuously generated and ozone concentration can be adjusted.
- The machine adopts stainless steel case, beautiful, corrosion resistant and oxidation resistant.
- The tube has high conversion efficiency, low energy consumption, continuous work and long service life.
- Air cooling + water cooling double cooling system ensures long time stable operation of main engine.



► Technical Specifications

Model	Ozone Output	Power	Ozone Concentration	Dimension (mm)	NW/GW (kg)	Oxygen Flow Rate	Ozone Output Pressure	(m³/h)	Voltage	Cooling Way	Gas Feeding
QLO-10G	10G	510W	60-80mg/L	50*40*73	32/44.4	2-3L	0.03-0.05	1-3	220V/50Hz	Air Cooling	Oxygen Source
QLO-15G	15G	630W	60-80mg/L	50*40*73	35/48	3L	0.03-0.05	3-5			
QLO-20G	20G	730W	60-80mg/L	50*40*91	42.4/51	4L	0.03-0.05	5-10			
QLO-30G	30G	750W	60-80mg/L	50*40*91	44.4/53	6L	0.03-0.05	10-15			
QLO-40G	40G	860W	60-80mg/L	50*40*103	48.1/59	8L	0.03-0.05	15-20	220V/50Hz	Water Cooling	Oxygen Source
QLO-50G	50G	945W	80-120mg/L	50*40*115	52/65	10L	0.05-0.06	20-30			
QLO-60G	60G	1100W	80-120mg/L	50*40*115	55/69	12L	0.05-0.06	30-40			

► Applications



Large Workshop



Beverage Processing



Waste Water Treatment



Rinse Factory



Paper Mill



Jeans Faded



Swimming Pool Water Treatment



Silks And Satins Bleaching



Fish Farming



Beverage Water Treatment



QLO-80/100/150/200G(CTO) OXYGEN SOURCE OZONE GENERATOR

► Features

- Technology corona discharge quartz ozone cell
- Adjustable Ozone output : 0-100%
- Cooling way : air cooled or water cooled
- Inner air compressor and condenser , water filter
- Inner PSA oxygen generator unit .
- Over heat , over temperature , over voltage protection
- Back water prevented solenoid valve
- Ultra-low rate of ozone decay
- Plug and play
- High ozone concentration output

► Technical Specifications

Model	Ozone Output	Power	Ozone Concentration	Dimension (cm)	NW/GW (kg)	Oxygen Flow Rate	Ozone Output Pressure	Voltage	Applicable (m³/h)	Cooling Way	Gas Feeding
QLO-80G	80G	1700w	80-120mg/L	80*55*140	69/100	16L	0.05-0.06	220V/ 50Hz	40-50	Water-Cooling	Oxygen Source
QLO-100G	100G	1900w	80-120mg/L		86/107	20L	0.05-0.06		50-70		
QLO-150G	150G	3200w	80-120mg/L	/	/	30L	0.06-0.08		70-100		
QLO-200G	200G	3600w	80-120mg/L	/	/	40L	0.06-0.08		80-100		

► Applications



Large Workshop



Beverage Processing



Waste Water Treatment



Rinse Factory



Paper Mill



Jeans Faded



Swimming Pool Water Treatment



Silks And Satins Bleaching



Animal Water Treatment



Beverage Water Treatment

INDUSTRIAL OZONE GENERATOR

QLO-200G-1000G

INDUSTRIAL OZONE GENERATOR



► Features

- With ozone concentration adjustment
- Adopting honeycomb ozone unit design, the structure is extremely stable in use, long in service life, high in discharge efficiency, and difficult to damage in case of returning water
- The body is made of stainless steel, anti-corrosion and anti-oxidation
- Large-area space disinfection, water treatment and disinfection, bleaching and bleaching (option of air source or oxygen source according to demand)
- The stable running time is long, the discharge tube of the generator is stainless steel tube, the tube wall is smooth and does not store heat, which is beneficial to stabilize ozone production and has a service life of more than 20 years.
- Air-cooled and water-cooled dual cooling system ensures long-term stable operation of the host
- External high-power oil-free air compressor, cold dryer, gas storage tank, adsorption dryer and other ancillary equipment (can be selected according to demand)

► Applications



Large Workshop



Beverage Processing



Waste Water Treatment



Rinse Factory



Paper Mill



Jeans Faded



Swimming Pool Water Treatment



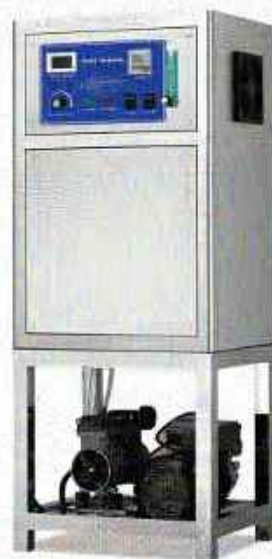
Silks And Satins Bleaching



Animal Water Treatment



Beverage Water Treatment



QL-OWS-10/20/30G(CTO) OZONE WATER SYSTEM

► Features

- High ozone water production
- Advanced air-cooling water cooling
- Easy and simple control, compact design
- Very efficient with excellent mass transfer of ozone
- Over-temperature over current protection
- Integrate ozone generators, oxygen concentrator, gas liquid mixing pump
- Ready to use upon delivery
- Back water protection

► Technical Specifications

Model	Ozone Output	Power	Ozone Concentration	Treat Water Flow Rate	Dimension (cm)	NW/GW (kg)	Voltage	Gas Feeding
QL-OWS-10G	10G	800W	1-3ppm	0.4~2.8m³/h	50*40*110	52/66	220V/ 50Hz	Oxygen Source
QL-OWS-20G	20G	1.2KW	1-4ppm	1~3.5m³/h	50*40*131	64/84		
QL-OWS-30G	30G	1.3KW	1-5ppm	1~3.5m³/h	50*40*140	70/92		

► Applications



Vegetable Processing



Silks And Satins Bleaching



Alcohol Production



Food Processing Factory



QL-OWS-10/20/30G

SPRAY OZONE WATER SYSTEM(WITH MIXING TANK)

Prepare high concentration ozone water and clean the breeding ground. Eliminate the odor of the space and reduce the growth of bacteria. Provide environmental sanitation in farming sites.

► Features

- Movable, easy to operate, just connect water inlet
- High pressure, reducing labor costs
- Safe and hygienic, no secondary pollution, no chemical disinfectants
- Integrate ozone generators, oxygen concentrator, gas liquid mixing pump
- Back water protection
- Ozone water can provide a clean environment and kill bacteria

► Technical Specifications

Model	Ozone Output	Power	Ozone Concentration	Treat Water Flow Rate	Dimension (cm)	NW/GW (kg)	Voltage	Gas Feeding
QL-OWS-10G	10G	800W	1-3ppm	0.4~2.8m³/h	90*40*110	70/84	220V/ 50Hz	Oxygen Source
QL-OWS-20G	20G	1.2KW	1-4ppm	1~3.5m³/h	90*40*131	82/104		
QL-OWS-30G	30G	1.3KW	1-5ppm	1~3.5m³/h	90*40*140	96/118		

► Applications



Pig Farm



Dairy Cow Farm



Chick Farm



Sheep Farming



Duck Farming



Garden



Greenhouse Planting



Orchard

PIPELINE TYPE OZONE GENERATOR



QLC-20/40/60G

PIPELINE TYPE OZONE GENERATOR

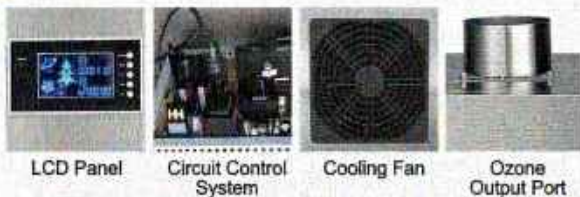
Features

- Intelligent remote control, 0-24Hr intelligent timing.
- Easy installation and maintenance, simple operation and cost saving.
- Adopting air cooling technology, it can work continuously for a long time.
- The ozone delivery distance is far away, the distribution is uniform, and the sterilization efficiency is high.
- The external case is made of stainless steel, corrosion resistant and cost saving.

Technical Specifications

Model	Ozone Output	Power	Ozone Concentration	Dimension (cm)	NW/GW (kg)	Air Blower Flow	Treat Air Flow	Applicable Area	Voltage	Cooling Way	Gas Feeding
QLC-20G	20G	180W	42-50ppm	40*30*62	17.6/19.8	300m³/h	7000+	400-600m³	220V/ 50Hz	Air Cooling	Air Source
QLC-40G	40G	350W	70-85ppm	40*30*62	17.8/20	300m³/h	10000+	800-1200m³			
QLC-60G	60G	380W	125-130ppm	40*30*62	18/20.2	300m³/h	15000+	1200-1800m³			

Detail Show



Applications

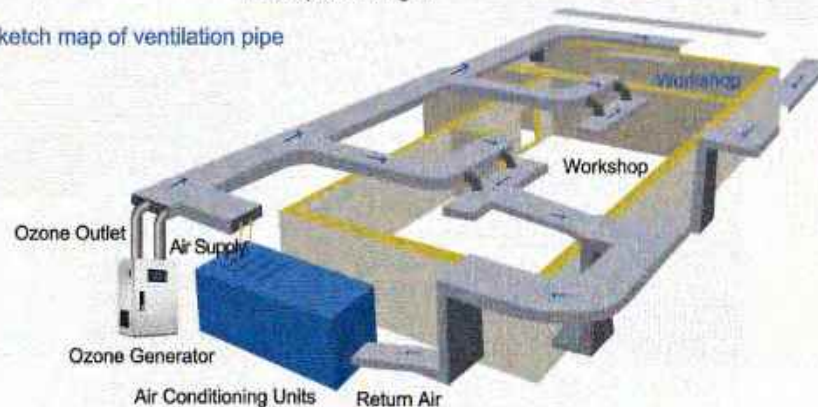


Piping organization system diagram

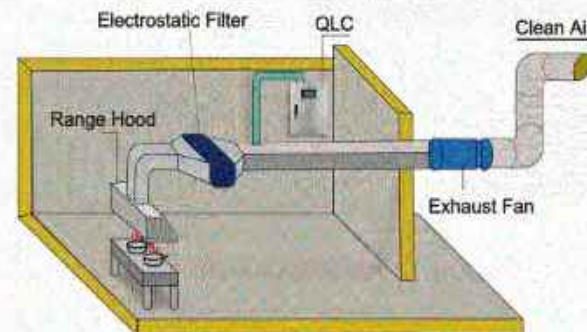
Pipeline ozone disinfection:

The ozone produced by the ozone generator is piped into the air duct or air duct of the central air conditioning system, and the ozone is transferred to the workshop which needs to be disinfected by the wind of the space. Then it is sent to the clean areas, or the ozone is added directly to the sterilized space. The ozone is dispersed in the clean areas by multi-point design.

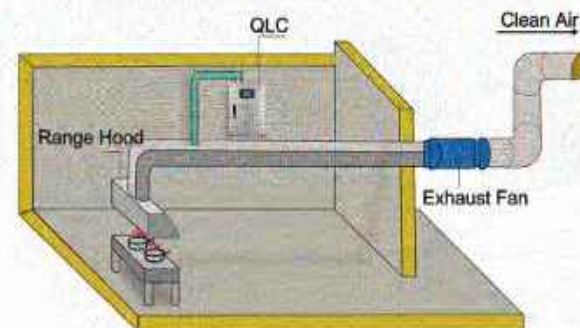
① Sketch map of ventilation pipe



② Schematic diagram of kitchen fume pipe



Wall-mounted installation, easy to operate, just connect the ozone outlet pipe to the fume pipe, in order to extend the life of the machine, as far as possible to install the machine in a dry and ventilated environment.



Wall-mounted installation, easy operation, ozone machine before the plug-in static filter effect is better, in order to extend the life of the machine, as far as possible to install the machine in a dry and ventilated environment.

QZONE DISINFECTING CABINET



QL-S-40/60/80/100/500L(CTO) OZONE + UV (CUSTOM TYPE)

► Features

- Customizable timing function
- Customizable UV / high temperature / ozone three effect one
- Customized high temperature + ozone dual disinfection
- Customizable ozone concentration regulation
- Customizable disinfection cabinet and ozone separation design or integrated design
- Customizable cabinet separates and all kinds of large combined cabinets
- The custom fuselage is made of stainless steel

► Technical Specifications

Model	Ozone Output	Power	Ozone Concentration	Dimension (cm)	NW/GW (kg)	UV Lamp	Layer	Opening Time	Voltage	Cooling Way	Gas Feeding
QLC-40L	3g/h	60W	15-25mg/L	40*30*60	14/15	1pc	2				
QLC-60L	3g/h	60W	15-25mg/L	40*30*75	18/19	1pc	2				
QLC-80L	5g/h	80W	15-25mg/L	45*30*90	21/22.5	2pc	2	30min	220V/50Hz	Air Cooling	Air Source
QLC-100L	5g/h	80W	15-25mg/L	45*35*100	23/24.5	2pc	3				
QLC-500L	7g/h	120W	15-25mg/L	85*50*160	100/115	4pc	4				

► Applications



Product Packaging



Food Packaging Bag



Food Samples



Disinfection Of Food Containers



Operation Room Tools



Cosmetic Bottle



Workshop Dust-Free Clothing



Record Room Documents



Precision Instrument Components



Laboratory Uensils

PSA OXYGEN CONCENTRATOR



QLY-3/5/8/10/20/30/40L PSA OXYGEN CONCENTRATOR

► Features

- Used imported oxygen molecular sieve
- Domestic patent product
- Oxygen output stable and continuously
- High output pressure
- Working Voltage 110V / 220V is available
- High concentration up to 95%
- Silence working , low noise

► Aeration Product Matching



QL100
Usable area:50m²



QL113-0
Usable area:90m²



QL310-1
Usable area:180m²



QL300-48
Usable area:180m²



QL100-25
Usable area:60m²

► Technical Specifications

Equipment	Model	Dimension (cm)	Net Weight	Power	Gas Source	Oxygen Flow Rate
Oxygen Generator (Inner built-in air filter+condenser+oil free compressor.)	QLY-3L	40*30*57	22kg	300W	Built-in Gas Source	1-3L/min
	QLY-5L	40*30*62	24kg	450W		3-5L/min
	QLY-8L	42*30*62	27kg	700W		5-8L/min
	QLY-10L	52*37*105	28.5kg	750W		10-12L/min
	QLY-20L	52*37*110	60kg	1400W		20-25L/min
	QLY-30L	81.5*50*125	110kg	2000W		30-38L/min
	QLY-40L	/	145kg	2700W		40-50L/min

► Applications



Fish Farming



Agriculture



Ozone Production



■ 3G air-cooled ozone tube + 40W un-adjustable power supply



■ 5G air-cooled ozone tube + 60W un-adjustable power supply



■ 20G double cooling ozone tube + 200W un-adjustable power supply



■ 30G ozone tube (air cooling water cooling available) + 450W adjustable power supply



■ 5G double cooling ozone tube + 60W un-adjustable power supply



■ 10G double cooling ozone tube + 80W adjustable power supply



■ 50G air cooling ozone tube + 450W adjustable power supply



■ 50G water cooling honeycomb tube + 450W adjustable power supply



■ 10G double cooling ozone tube + 80W un-adjustable power supply



■ 15G double cooling ozone tube + 200W adjustable power supply



■ 100G water-cooled honeycomb tube + 1000W adjustable power supply + high voltage package



■ Oxygen concentrator (3L/5L/8L/10L)

PORTABLE OZONE TESTER

DOZ-30

DISSOLVED OZONE TESTING METERS

► Features

- No more material, low maintenance. Measured value is not affected by low temperature and turbidity
- Can replace CS6930 dissolved ozone electrode. Precision stability. Easy cleaning and maintenance
- MHX4 component structure design, strong waterproof, grip comfort
- Maintenance is simple, without any tools can easily replace the battery and the electrode
- Boat fuselage design, make sure that floating up, the screen electrode contact water completely



Tip: in order to ensure the stability of data measurement, it is suggested that match the uniform circular groove sample use

Measurement Range	0-10 mg/L	Screen	22*30mm Multi-line LCD screen
Precision	0.01 mg/L	Protection Level	IP67
Accuracy	±1%F.S.	Automatic Power Off	1min
Adjust way	2 point (0, any point)	Power Supply	1×1.5V AAA Battery
Lock Function	Manual or automatic	Size	185×40×48mm(H×W×D)
Electrode	CS6930 dosage ozone electrode	Weight	95g
Temperature Measurement Range	0-100°C / 32-212°F		
Operating Temperature Range	0-60°C / 32-140°F		

► Applications



Purified Water



Sewage Disposal



Boiler Water



Laboratory

QL-O₃-2059 / DOZ6000

ONLINE DISSOLVED OZONE MONITORING



(Panel Mounting)



(Wall Mounting)

	Model	QL-O ₃ -2059	DOZ6000
Dissolved Ozone	Measuring Rate	0~2mg/L or 0~20mg/L	
	Resolution	0.001mg/L or 0.01mg/L	
	Measurement Accuracy	1%±LSD	
Temperature	Measurement Range	-10~110°C	
	Resolution	0.1°C	
	Measurement Accuracy	±0.3°C	
	Temperature Input	Thermistor 22K/PT1000	
	Temperature Compensation	Automatic-5~+100°C	
Current Output	Output Range	4~20mA(Adjustable)	
	Current Accuracy	1%FS	
	Output Load	<500Ω	
Switch Control	Control Method	High and low independent design SPST relay	
	Output Load	2.5A 230VAC	
Data Transmission	RS-485 Output	RS-485 output	
Other Parameters	Working Power Supply	85-260VAC or 12-36VDC	
	Ambient Temperature	0~60°C	
	Ambient Humidity	Relative Humidity<90%	
	Waterproof Grade	IP65	
	Installation Method	Dial Mounting	Wall Mount
	Dimension	108×108×156mm (H×W×D)	158×188×108mm
	Hole Size	94.5×94.5mm	/
	Weight Of Meter	0.6kg	0.7kg



QL-800-O3

PORTABLE OZONE TESTER

► Features

- Imported high precision electro chemical sensors
- USB high speed data transmission, data down loadable(optional)
- LCD dot matrix display technology, display gas type, gas unit, gas density, maximum test value, local time, ambient humidity
- Chinese/English control interface
- Inner suction pump
- Explosion-proof conformity certification, Exia II CT4

Gas Detected	Ozone(O3)	Recovery Time	≤10S
Detection principle	Electrochemical principle	Display	Digital LCD backlit display
Sampling Method	Pump suction type, Flow rate up to 1L/min, 10 adjustable gears.		
Measure Range	0-1ppm/0-5ppm/0-10ppm/0-20ppm/0-50ppm/0-100ppm/0-200ppm/0-500ppm/0-1000ppm(CTO)		
Gas unit	Multiple gas units to switch the display	Humidity	0-95%RH
Precision	2%FS-3%FS	Degree of protection	IP68
Response Time	≤10S	Operating time	100 Hr (Pump off)
Linearity error	≤±1%	Weight	300g
Zero shift	≤±1% (F.S / year)	Explosion-Proof	Exia II CT4
Operating language	Chinese/English	Alarm mode	Sound, light, vibration
Operating temperature	-20°C~50°C	Dimensions	205*75*32mm



QL-DN

TITANIUM ALLOY AERATOR

► Features

- Micropore diameter: 4μm~10μm
- Porosity: 35%~50%.
- Diameter for disc: Φ100/Φ150/Φ180mm
- Thickness: 3mm
- Aerated bubble: 0.1~2mm
- Connector can be 4" or 6" with female or male screw, tower type



Model	External Diameter	Disinfection Area	Material	Air Inlet Diameter	Max Pressure	EA	Micropore Diameter
DN-125(Plate)	125mm	0.15m²	SS304+Titanium	1/2" (Can customize)	Internal withstand pressure ≤ 0.3MPa External pressure ≤ 0.6MPa	≥20%~30%	4μm~10μm (Can customize)
DN-180(Plate)	180mm	0.35m²					
DN-245(Plate)	245mm	0.5m²					
DN-100(Round)	100mm	0.15m²	Pure titanium	1/2" (Can customize)	Internal withstand pressure ≤ 0.3MPa External pressure ≤ 0.6MPa	≥20%~30%	4μm~10μm (Can customize)
DN-150(Round)	150mm	0.35m²					
DN-180(Round)	180mm	0.5m²					

MIXING OF GAS AND WATER

OZONE VENTURI INJECTOR

Venturi is designed to be used with an ozone generator for water treatment. Made of anti-ozone material, PVDF. Connected to your existing filtration system it allows an ozone injection point, where the vacuum effectively sucks the ozone gases into the water flow.



► Technical specifications

Model	Size	Water Pressure	Inspiratory Capacity	Overall Length	Water Flow	Material
A12057	1/4in	0.1-0.2Mpa	1-3m³/hr	57mm	0.05-0.2m³/hr	PVDF
A25100	1/2in	0.25-0.4Mpa	4-7m³/hr	100mm	0.2-1m³/hr	PVDF
A25152	3/4in	0.25-0.5Mpa	7.5-10m³/hr	152mm	1-3m³/hr	PVDF
A32235	1in	0.25-0.5Mpa	11-15m³/hr	230mm	3-10m³/hr	PVDF
A48275	1.5in	0.25-0.6Mpa	22-30m³/hr	275mm	10-25m³/hr	PVDF
A58295	2in	0.3-0.7Mpa	37-49m³/hr	295mm	25-50m³/hr	PVDF

MIXING PUMP

Mixing system is simple and it intakes ozone gas to the pump and mix ozone with liquid in the pump, while conventional system needs additional equipment like "ejector" and "static mixer" to make ozone water. It can work stable performance, High efficiency, low noise, simple in instruction and operation



► Technical specifications

Model	Flow Rate	Water Input Size	Water Output Size	Power	Voltage	Head Of Delivery	Speed
20QY-1	0.4-2.8T/Hr	19.1mm	12.7mm	0.55Kw	220V/50Hz	40M	2900r/min
25QY-2SS	1-3.5T/Hr	25.4mm	19.1mm	1.1Kw	220V/50Hz	40M	
40QY-6SS	3.5-8T/Hr	38.1mm	30.5mm	3Kw	380V/50Hz	50M	
50QY-12	18T/Hr	50.8mm	38.1mm	5.5Kw	380V/50Hz	50M	

Reference concentration of ozone used in the air:

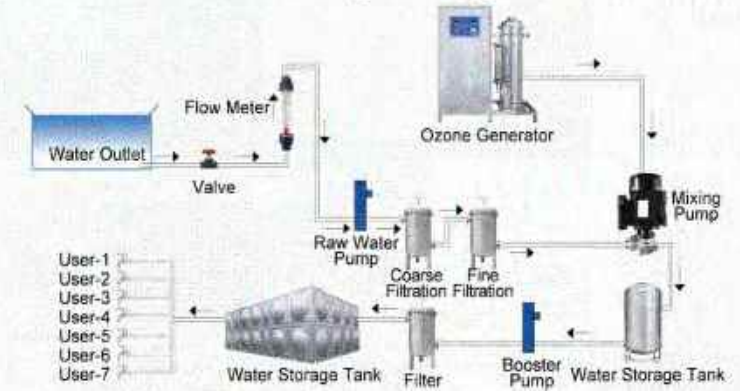
Application	Category	Concentration ppm	Ozone Per m ³ /h	Method Of Use
Disinfection	Medical Instruments	20	50-100	20ppm disinfection time 60min (International YY0214.296)
	Cold Room	6-10	15-25	Continuous start according to storage capacity and level of contamination, mainly to kill moulds
	Food Workshop	1-1.5	2.5-3.5	O ₃ gas delivery after daily work off
	Wards, Operating Theatres	2.5-5	5.5-15	Turn on the machine when disinfection is required and check the total number of bacteria according to the standard
	Workwear Disinfection	10-20	25-50	Relative temperature around 90%, clothes hung on hangers
Anti Poisoning Preservation Freshness	General Premises	1-2	2.5-5	Regular start-ups
	Eggs	2-2.5	5-5.5	Intermittent supply of O ₃ gas, 2-3 times a day
	Banana	2.5-3.5	5.5-8	
	Apple	2	5	
	Vegetables With Little Chlorophyll	1.5-1	3.5-2.5	
	Fish Cheese	0.5-1	1.5-2.5	
Deodorization Slink Purification	Morgue	3	7	Deodorise when there is an odour
	Fish Processing Plants	3	7	
	Slaughterhouse	2-3	5-7	The polluted gas enters the treatment pipeline, and O ₃ gas is put into the pipeline to oxidise and deodorise. If the odour in the workshop is serious, O ₃ gas should be put in the inlet of the workshop so that O3 gas cannot be smelled.
	Fatty acid Plants	10	25	
	Rubber Factory	3-10	7-25	
	Rubbish Waste Disposal	10	25	
	Sewage Treatment Plant	1-2	2.5-5	

Calculation method for ozone dosage in water treatment:

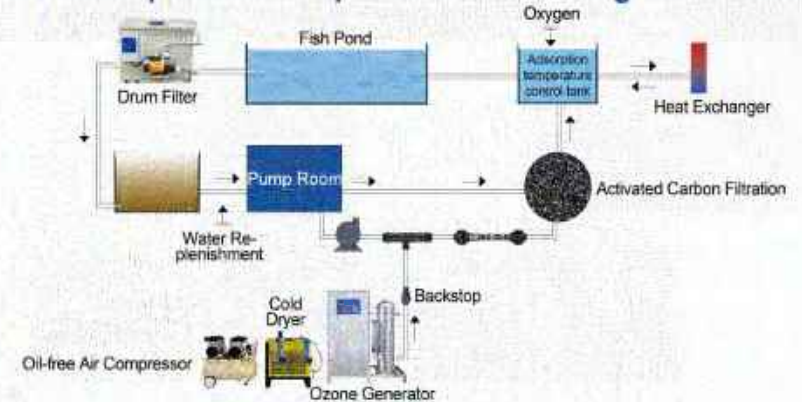
Application Industry	Ozone Dosage g/m ³	Purpose
Drinking Water	3	Ozone is used for drinking water. In addition to sterilization, it also has decolorization, deodorization and removal of iron and manganese, removal of chloride, control of algae, improvement of taste, water quality, and no secondary pollution. Food and beverage factories can also use ozone to make ozone for other disinfection
Pure Water	3	
Mineral Water	5	
Tap Water And Secondary Pressurized Water Supply	5	
Beverage	3-10	Disinfect and sterilize, decompose humus in water, improve water quality, make water more blue, stabilize pH value, decompose organic compounds in water, eliminate chloride side effects, effectively prevent and eliminate eye discomfort caused by chlorine treatment, stimulate skin and irritating odor, and reduce the use of chemical reagents
Swimming Pool	1-2	
Hospital Sewage	10-20	High efficiency, rapid disinfection and sterilization, kill all kinds of microorganisms, remove the color, smell and chlorine and other pollutants in the sewage, increase the dissolved oxygen in the water, improve the water quality, decompose the refractory organic matter and three pathogenic substances, improve the biochemical property of the sewage, easy to decompose, and will not cause secondary pollution.
Water Reuse	5-10	Sterilization, disinfection, purification, decolorization, deodorization, no secondary pollution
Industrial Waste Water	(Depends on the industry)	It rapidly decomposes organic fuels such as fluorine and phenol in wastewater, deodorizes and deodorizes, removes harmful substances, and reduces COD
Industrial Cooling Water	0.5-1	Sterilize, Kill algae, Remove scale

Note: Calculation of ozone demand: the amount of ozone required for water treatment g/h = 1.06 coefficient × ozone dosing amount g/m³ × water volume m³/h

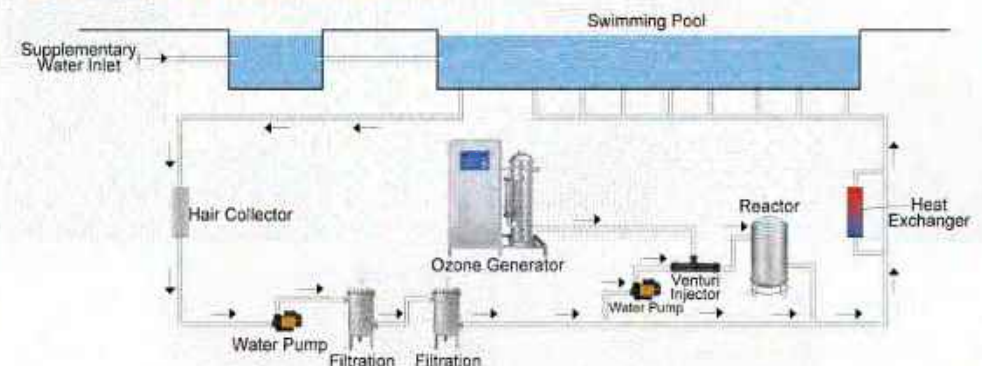
Process flow of ozone in direct drinking water system treatment



Ozone treatment process in aquaculture circulating water treatment



Swimming pool process flow

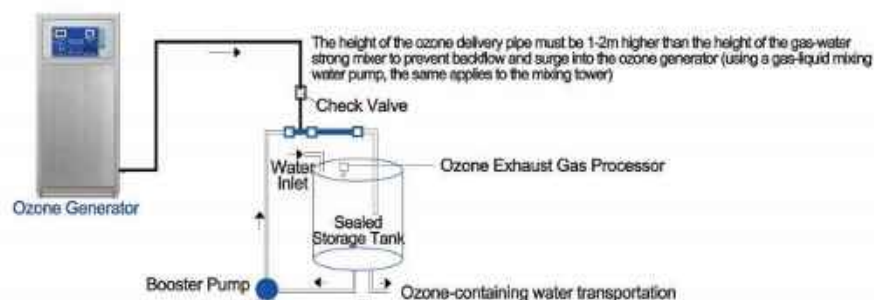


QZONE APPLICATION IN SEWAGE TREATMENT

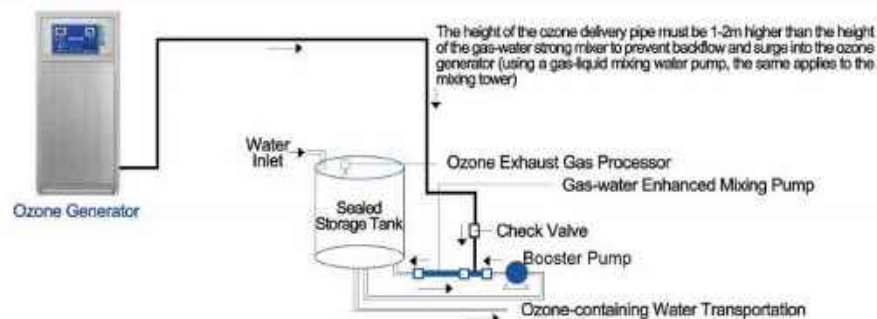
At present, ozone disinfection is widely used for purified water and natural water (mountain spring water, mineral water, groundwater, etc.) worldwide. When applying ozone purification to tap water, the international standard holds a solubility value of 0.4mg/L for 4 minutes, which is a CT value of 1.6. The following table provides reference values:

	Differentiated water supply	Pure water	Natural water	Tap water	Swimming pool water
Ozone concentration in water	0.1-0.3mg/L	0.2-0.4mg/L	0.4-0.6mg/L	0.4mg/L	0.2mg/L
Ozone dosage	1-2g/T	2-3g/T	3-5g/T	2-3g/T	1-2g/T

Gas-water mixed connection diagram①



Gas-water mixed connection diagram②



Gas-liquid mixed water cycle link diagram A/B

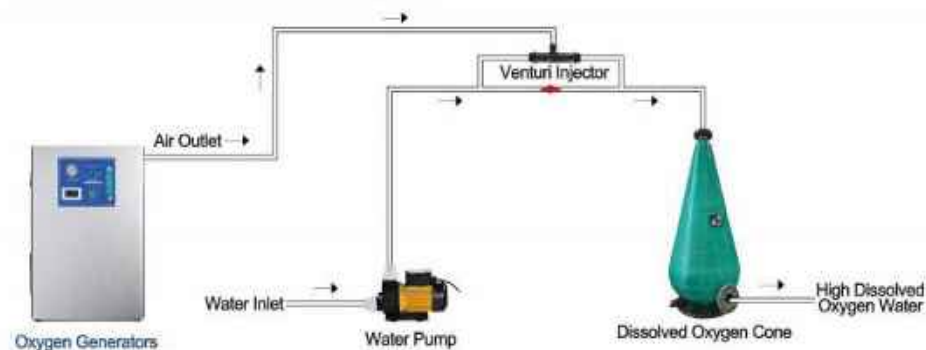


A:Injector Mixing



B:Mixing Pump

Oxygen gas-liquid mixture diagram



OZONE APPLICATION IN AQUACULTURE WATER TREATMENT

Ozone Treatment for Aquaculture Water

- Decolorization, deodorization, deodorization
- Disinfection (Efficient control of microorganisms)
- Kill bacteria, viruses, protozoa, etc
- Significantly reduce the generation of by-products such as chloramine, trihalomethane, and no trihalo-
- Remove the generated micro pollutants, internal secretions, etc
- Reduce free chlorine content in water
- Enhanced clarification effect, high water transparency, and excellent water quality. Disrupting the stability of colloidal substances, reducing the use of flocculants and additives, and reducing
- Algae removal that effectively kills or inhibits the growth and reproduction of algae



Flowchart



OZONE APPLICATION IN FOOD INDUSTRY

Microbial pollution in food production workshops is a crucial factor affecting product quality. Ozone can not only effectively kill them, but also effectively remove workshop odors and pollutants. The use of ozone disinfection can ensure that the surface bacterial indicators of objects such as air, ground, operating platforms, and utensils in the production workshop meet the standards, and the odor in the meat and poultry slaughtering workshop is significantly reduced.

Most of the bacteria in the production workshop can be brought into the workshop through the work clothes of the processing personnel, and in severe cases, it can cause widespread spread, which should be given sufficient attention. Ozone gas can penetrate various parts of clothing, so using ozone to disinfect work clothes is an efficient and simple method.

Ozone has a higher killing rate and faster speed against bacteria, viruses, microorganisms, and other pollutants in water, completely removing organic compounds and other pollutants without generating secondary pollution. Ozone has a higher killing rate against bacteria than chlorine agents, with a killing rate approximately 300 to 600 times that of chlorine agents. It can efficiently, economically, and conveniently kill bacteria.

Dissolve high concentrations of ozone in water. The ozone water produced has a strong degradation effect on various pesticides, organic toxins, and heavy metal ions. High concentration ozone water undergoes sterilization, disinfection, and degradation of other harmful substances. Ozone is converted back into oxygen without leaving any residue in the water, without secondary pollution or any side effects.

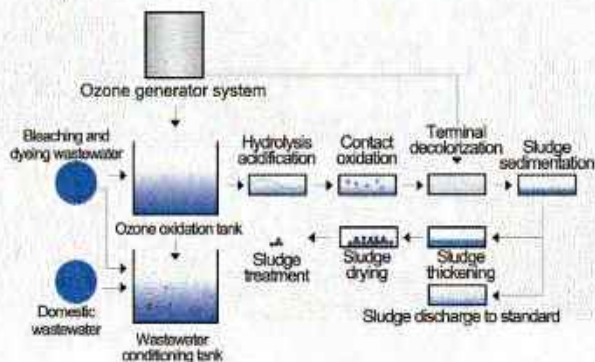


QZONE APPLICATION IN SEWAGE TREATMENT



- Oxidizing organic matter: improving biodegradability (converting COD into BOD), macromolecular cleavage, chain with strong selective oxidation for C=C double bonds
- Oxidized inorganic compound: iron, manganese, sulfide, nitrite, cyanide, etc
- Discoloration, deodorization, and deodorization
- Disinfection: killing bacteria, inactivating viruses, protozoa, etc
- No generation of by-products such as trihalogenated compounds
- Remove micro fouling organisms, internal secretions, etc. generated by pharmaceutical and nursing products
- Enhance the removal effect of organic matter: After partial oxidation by ozone, organic matter can be enhanced. The removal effect, such as detergents, phenols, insecticides, integrators, and other environmentally harmful chemicals
- Enhance the clarification effect, improve the transparency of water quality, and disrupt the stability of colloidal substances. Reduce the use of flocculants and additives and reduce the scale of separation equipment
- Advanced oxidation, capable of producing light radical radicals
- Reduce the production of sludge in sewage treatment, reduce the production of excess sludge, reduce the production of activated sludge, and improve the quality of activated sludge
- Increase methane production in digestion processes and promote sedimentation

Flowchart



QZONE APPLICATION IN SWIMMING WATER TREATMENT



- Discoloration, deodorization, and deodorization (reducing irritation to skin and eyes)
- Disinfection (efficient control of microorganisms)
- Kill bacteria, viruses, protozoa, etc
- Significantly reduce the generation and removal of micro pollutants, internal secretions, and other by-products such as chloramine, trihalomethane, and no trihalogenated compounds
- No harmful substances to swimmers and staff
- Reduce the free chlorine content in water
- Fresh indoor air
- Enhanced clarification effect, high water transparency, and excellent water quality
- Destroy the stability of colloidal substances, reduce the use of flocculants and additives, and reduce the scale of separation equipment

Flowchart

