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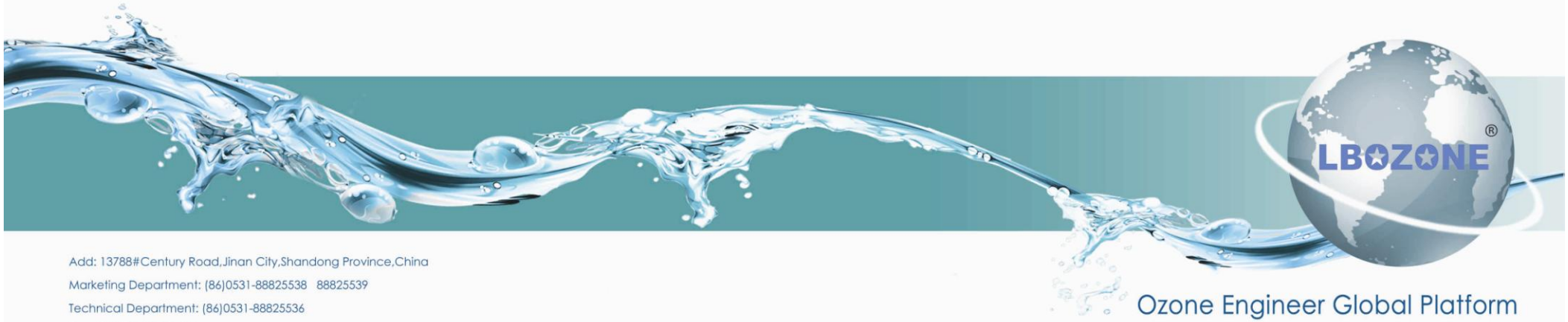
LBOZONE®



Ozone Engineer Global Platform

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Shandong Nippon Photoelectricity Equipment Co.,Ltd.

LBOZONE®

Company Profile

LBOZONE company was founded in 2000. Its registered capital is 10.5 million RMB. LBOZONE is a company, who mainly produce, manufacturer, and service ozone generator, devotes in the applied research of ozone technology. The company has nearly 20 years history, and has passed the authentication of the quality system ISO9001, has the independent import and export right of management, owned professional workshop of manufacturing ozone chamber and discharge body, digital DSP intelligence track motherboard, the production workshop of large and medium-sized transformer, ozone quantitative laboratory etc. The company has become one of the world’ s largest production bases of ozone.

LBOZONE company has established ozone unit laboratory, ozone applied research center and Dr. and Mr. scientific research station with Xinjiang branch of Chinese academy of science, and has excogitated the ozone technology application about environmental protection; gas and water mixing technology; technology of ozone biological active charcoal and reusing the treated depth sewage. Ozone generator is mainly used for water purifier, water disinfection, color removal, COD reduce, water reuse, experiment, etc.

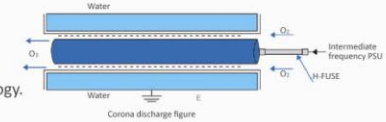
Manufacture

Shandong Nippon works on ozone generator for nearly 20 years. Specialization and large scale of ozone generator production has been formulated. Research department and quality assurance department make a great contribution to high quality ozone generator. Shandong Nippon has professional production and assembly ability which makes more and more users come back to by ozone generator again. Ozone generators are produced by advanced machining equipment. Each working process has quality control step to make sure the stability of ozone generator quality.




The Core Technology

Large ozone production, highly effcient, steady quality.
Micro discharge gap technology
PSU medieum high frequency, IGBT inverter power technology.
Patent pressurized ozone generator
Ceramic and glass dielectric



Corona discharge figure


Ozone Catalytic Experiment

To do the small test or pilot test according to different water quality. Then, build the ozone catalytic experiment model, make sure qualitative and quantitative test. Build large ozone generator one-stop solution.



Ozone Equipment Selection Guide

NP	A	3000	C	S	–	3

Lbozone Code

Feed Gas Type

A	Air
O	Oxygen

Ozone Output（3000g/h）

Ozone Prod. Mode

C	Ceramic
G	Glass
P	Plate
Gi	Glass In-Discharge
Go	Glass Out-Discharge

Whether Supply Feed Gas

S	Sale Supply
	User Supply

Power supply Voltage

1	AC 110V 50/60Hz
2	AC 220V 50/60Hz
3	AC 380V 50/60Hz

Example1: NPA10KC-S-3 Meaning: Air Feed gas,Ozone Output 10Kg/h, Ozone Prod. Mode is Ceramic,Sale Supply Feed Gas, Power supply Voltage 380V.
Example2: NPO5000G-3 Meaning: Oxygen Feed gas,Ozone Output 5000g/h, Ozone Prod.Mode is Glass ,The User Supply Feed Gas, Power supply Voltage 380V.

Workshop Show

Shandong Nippon strictly follow the ISO9001 quality system in production and management. In order to improve the quality of ozone generator, Nippon introduce new equipment and new technology. Quality control is very strict in ozone generator production, it makes the steady quality of ozone generator.

Oxygen Feed Gas Horizontal Series

Ozone Generator Features

Work on ozone for 20 years. Design for continuous operation.

Use advanced IGBT medium high frequency inverter technology.

Color LCD touch screen.

Advanced PLC control system.

Micro gap discharging technology saves your cost.

Online pressure and temperature monitor.

The dielectric is made by ceramic and borosilicate which is breakdown resistance.

According to the work curve and PID to track and correct the parameters.

Design for easy operating.

Technical Parameters

Name	NPO10 ~ 150KG-S-3 Technical Parameters							
①Parameters								
Ozone Production(kg)	10	20	30	40	50	100	120	150
Ozone Concentration	80 ~ 200 mg/L,5 ~ 15wt %							
Feed Gas Source	Oxygen(O_2)							
Feed Gas Flow(Nm^3/h)	70	140	175	280	350	700	840	1050
Inlet/Outlet Gas Pressure	0.1 ~ 0.5 MPa/0.05 ~ 0.1 MPa, 1 ~ 5Bar/0.5 ~ 1Bar							
Gas Connector Size	DN40	DN50	DN65	DN80	DN100	DN125	DN125	DN150
Ozone Adjust Range	10 ~ 100%							
②Technical Data								
Power Supply	3×400V，50/60Hz							
Power Consumption	6 ~ 8KWh/kgO_3							
Power Factor	95 ~ 99%							
Cooling Type	Water cooled							
Cooling Water Quantity	1.5 ~ 2 Nm^3/h							
Water Temp. Differences	5℃							
Cooling Connector Size	DN50	DN65	DN80	DN100	DN125	DN150	DN150	DN200
Ambient Temperature	5 ~ 40℃ /24h Average 35℃							
Relative Humidity	Average Humidity≤65%，Accidental Humidity≤85%							
Degree of Protection	IP42 ~ IP54							
Noise (1meter)	≤65dB(A)							
③ Dimensions								
Length (mm)	3800	3800	4500	4500	5400	6300	7200	8100
Width (mm)	2200	2500	3000	3200	3500	4200	4500	4500
Height (mm)	2100	2100	2100	2200	2500	3000	3000	3500
Weight (kg)	4500	9500	13000	16000	19500	30000	36000	46000

NTP(1atm;Tcw=15℃);Oxygen Feed gas, Ozone Concentration145mg/L,10%.

Oxygen Feed Gas Vertical Series

Ozone Generator Features

Work on ozone for 20 years. Design for continuous operation.

Use advanced IGBT medium high frequency inverter technology.

Color LCD touch screen.

Advanced PLC control system.

Micro gap discharging technology saves your cost.

Online pressure and temperature monitor.

The dielectric is made by ceramic and borosilicate which is breakdown resistance.

According to the work curve and PID to track and correct the parameters.

Design for easy operating.

Technical Parameters

Name	NPO300 ~ 10000C/G Technical Parameters							
①Parameters	Ceramic /Glass dielectric							
Ozone Production(g/h)	300	500	1000	2000	3000	5000	8000	10000
Feed Gas Source	Oxygen(O_2)							
Feed Gas Flow(Nm^3/h)	2.0	3.4	6.7	13.5	20.1	33.3	53.5	66.6
Cooling Water Quantity(m^3/h)	0.5	0.8	1.5	3.0	4.5	7.5	12.0	15.0
Power Consumption(KW)	2.1	3.5	7.0	14.0	21.0	35.0	56.0	70.0
Gas Connector Size	3/4"	3/4"	DN25	DN25	DN25	DN32	DN40	DN40
Cooling Connector Size	3/4"	3/4"	DN25	DN25	DN25	DN40	DN50	DN50
②Dimensions								
Length (mm)	1200	1400	1600	1800	2800	2900	3800	3800
Width (mm)	800	800	1100	1100	1100	1100	1100	1100
Height (mm)	1900	1900	2000	2000	2000	2000	2100	2100

Oxygen Feed gas, Ozone Concentration145mg/L,10%.

Air Feed Gas Horizontal Series

Ozone Generator Features

Work on ozone for 20 years. Design for continuous operation.

Use advanced IGBT medium high frequency inverter technology.

Color LCD touch screen.

Advanced PLC control system.

Micro gap discharging technology saves your cost.

Online pressure and temperature monitor.

The dielectric is made by ceramic and borosilicate which is breakdown resistance.

According to the work curve and PID to track and correct the parameters.

Design for easy operating.

Technical parameters

Name	NPA3 ~ 40KC-S-3 Technical Parameters							
①Parameters								
Ozone Production(kg)	3	5	10	15	20	25	30	40
Ozone Concentration	20 ~ 57.2 mg/L, 1 ~ 4wt %							
Feed Gas Source	Air							
Feed Gas Flow(Nm^3/h)	107	178	356	534	712	890	1068	1424
Inlet/Outlet Gas Pressure	0.1 ~ 0.5 MPa/0.05 ~ 0.1 MPa							
Gas Connector Size	DN40	DN50	DN65	DN80	DN100	DN100	DN125	DN150
Ozone Adjust Range	10 ~ 100%							
②Technical Data								
Power Supply	3×400V,50/60Hz							
Power Consumption	14 ~ 16KWh/kgO_3							
Power Factor	95 ~ 99%							
Cooling Type	Water cooled							
Cooling Water Quantity	2.5 ~ 3.5Nm^3/h							
Water Temp. Differences	5℃							
Cooling Connector Size	DN50	DN65	DN80	DN100	DN125	DN125	DN150	DN200
Ambient Temperature	5 ~ 40℃ /24h Average 35℃							
Relative Humidity	Average Humidity≤65%, Accidental Humidity≤85%							
Degree of Protection	IP42 ~ IP54							
Noise (1meter)	≤65dB(A)							
③ Dimensions								
Length (mm)	3100	3100	3100	4500	4500	4500	5400	5400
Width (mm)	2000	2100	2200	2300	2500	3300	4200	4500
Height (mm)	1900	2000	2100	2200	2300	2700	3500	3500
Weight(kg)	2600	4300	8200	10500	13500	18000	22000	25000

NTP(1atm,Tcw=15℃),Air Feed gas Ozone Concentration 28mg/L;2%.

Air Feed Gas Vertical Series

Ozone Generator Features

Work on ozone for 20 years. Design for continuous operation.
Use advanced IGBT medium high frequency inverter technology.
Color LCD touch screen.
Advanced PLC control system.
Micro gap discharging technology saves your cost.
Online pressure and temperature monitor.
The dielectric is made by ceramic and borosilicate which is breakdown resistance.
According to the work curve and PID to track and correct the parameters.
Design for easy operating.

Technical Parameters

Name	NPA150 ~ 2000C/G Technical Parameters									
①Parameters	Ceramic / Glass Series									
Ozone Production(g/h)	150	200	250	300	400	500	600	800	1000	2000
Feed Gas Source	Air									
Feed Gas Flow(Nm^3/h)	5.3	7.2	8.9	10.7	14.4	17.8	21.4	28.8	35.6	70
Cooling Water Quantity(m^3/h)	0.4	0.5	0.6	0.8	1.0	1.3	1.5	1.9	2.5	5
Power Consumption(KW)	2.5	3.3	4.2	5.0	6.5	8.0	9.6	12.0	16.0	32.0
Gas Connector Size	3/4"	3/4"	3/4"	3/4"	DN25	DN25	DN25	DN25	DN25	DN25
Cooling Connector Size	3/4"	3/4"	3/4"	3/4"	DN25	DN25	DN25	DN25	DN25	DN25
②Dimensions										
Length (mm)	1400	1400	1400	1400	1700	1700	1700	1900	1900	2900
Width (mm)	700	700	700	700	850	850	850	900	900	1100
Height (mm)	1800	1800	1800	1800	1800	1800	1800	1800	2000	2000

NTP(1atm, Tcw=15℃ Air Feedgas Ozone Concentration 28mg/L,2%).

Small Cabinet High Ozone Concentration Series

Ozone Generator Features

Work on ozone for 20 years. Design for continuous operation；LED interface display；Adjustable ozone output, simple operation；Micro gap discharging technology saves your cost；High ozone making efficiency, lower power consumption；Design for easy operating；Smaller volume saves your space；Factory test ensure good quality；Design for laboratory and swimming pool.

Technical Parameters

Name	NPO5 ～ 150P Technical Parameters							
①Parameters	Ceramic Plate Dielectric							
Ozone Production(g)	5	10	20	30	50	100	150	200
Ozone Concentration	80 ～ 200 mg/L, 5 ～ 15wt %							
Feed Gas Source	Oxygen(O_2)							
Feed Gas Flow (NL/h)	35	70	140	210	350	700	1050	1400
Inlet/Outlet Gas Pressure	0.1 ～ 0.3 MPa/0.02 ～ 0.08 MPa							
Gas Connector Size	ϕ8*6				ϕ10*8		1/2	
Ozone Adjust Range	10 ～ 100%							
②Technical Data								
Power Supply	220V,50/60Hz							
Power Consumption	7 ～ 9Wh/gO_3							
Power Factor	95 ～ 99%							
Cooling Type	Air cooled							
Ambient Temperature	5 ～ 40℃ /24h Average 35℃							
Relative Humidity	Average Humidity≤65%, Accidental Humidity≤85%							
Degree of Protection	IP42 ～ IP54							
Noise (1meter)	≤65dB(A)							
③ Dimensions								
Feed Gas Out (mm)	500*300*600					700*800*1900		
Feed Gas In (mm)	650*510*1000					1400*800*1900		

NTP(1atm;Tcw=15℃);Oxygen Feed gas, Ozone Concentration145mg/L,10%.

Ozone generator products

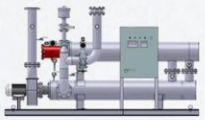
LCD Panel

Ozone Leak Monitor

Ozone Concentration Monitor

Dissolver Ozone Concentration Meter-Deplox-5

Catalyst Type Vent Ozone Destructor



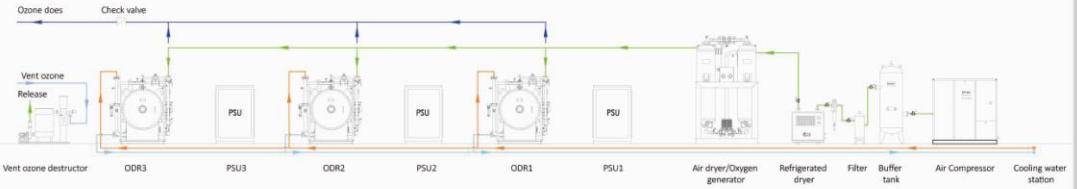
Heat Type Vent Ozone dDestructor

Check Valve

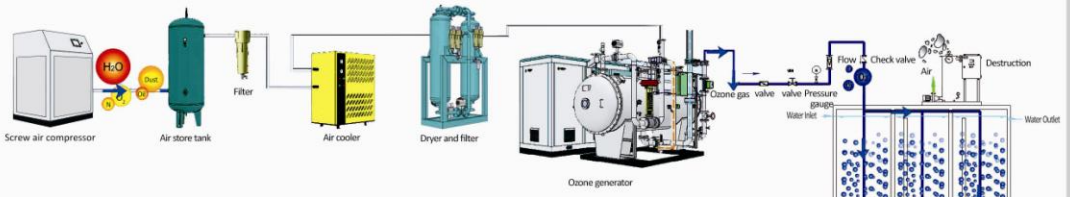
Venturi Ejector

Titanium Diffuser

Large Air Feed Gas Ozone Generator Flowchart

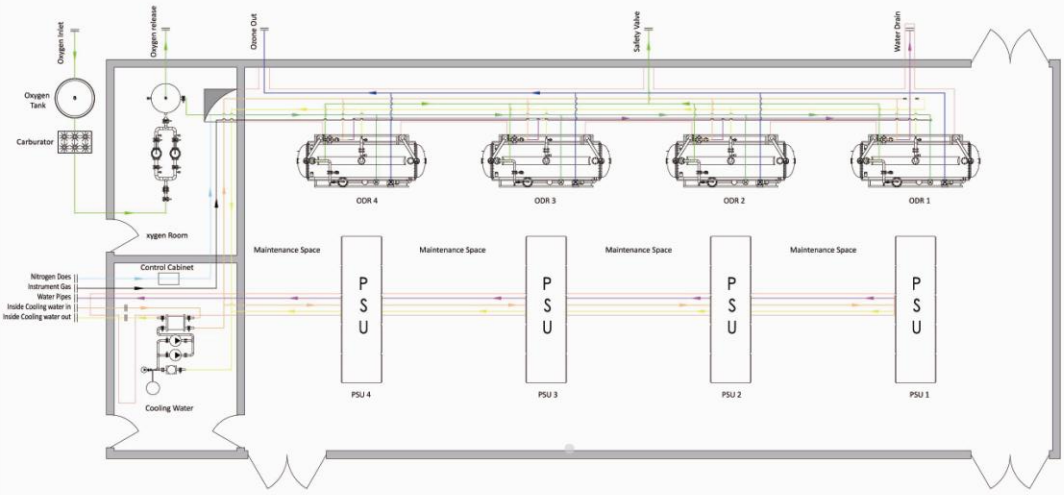


Front view



Physical map

Large Oxygen Feed Gas Ozone Generator Flowchart



Drinking Water Treatment

Ozone can be used in waterworks, food factory, and city water treatment. Because ozone has strong oxidability, it is usually used to remove color, remove odor, remove manganese and iron ions. Ozone is a succedaneum of chloride as a disinfector.

Xinjiang.China 10kg/h

Yantai,China 5kg/h

Sample Cases:

Customer Locates	Ozone output	Quantity
Cape Town, South Africa	15kg/h	2set
Tashkent, Uzbekistan	10kg/h	4set
Jilin, China	5kg/h	3set
Shanxi,China	4.5kg/h	2set
Xuzhou, China	3kg/h	3set
Xinjiang, China	1kg/h	1set
Liangshan, Szechwan	1kg/h	2set
.....		

Sewage Treatment

Ozone can be used in chemical plant, refinery, pharmaceutical factory, paper factory, distillery, etc. Because ozone has strong oidablility, it is usually used to reduce COD, remove color and heavy metal ions.

Baku, Azerbaijan 5kg/h

Tabriz, Iran 4.5kg/h

Sample Cases:

Customer Locates	Ozone output	Quantity
Yili,China	60kg/h	1set
Xinjiang Branch of CAS	10kg/h	2set
Henan, China	10kg/h	2set
Nei monggol, China	4.5kg/h	3set
Jiangsu, China	3.5kg/h	1set
Sichuan, China	2kg/h	1set
Binzhou, China	1kg/h	1set
.....		

Desulfurization and Denitrification

Ozone can be used to remove the nitrides of vent gas. It also has functions to reduce ammonia and hydrogen sulfide and other macromolecule. Carbon dioxide and water are the products in this process.

Qingdao,China 3kg/h

Nanjing,China 2kg/h

Shenhua Group 10kg/h

Sample Cases:

Customer Locates	Ozone output	Quantity
Beijing, China	1kg/h	3set
Hangzhou, China	10kg/h	4set
Qingdao, China	3kg/h	2set
Lanzhou, CHina	5kg/h	2set
.....		

Advanced Oxidation

Because ozone has strong oxidation, it can be used in molecular synthesis of spice factory, and other area which has requirement of advance oxidation.

Shanxi,China 10kg/h

Cnooc, China 5kg/h

Sample Cases:

Customer Locates	Ozone output	Quantity
Berlinwasser holding, China	12kg/h	2set
Changzhou, China	10kg/h	2set
Sinopec, China	5kg/h	1set
China academy of science, China	5kg/h	1set
Chifeng, China	5kg/h	1set
Cnooc, China	2kg/h	3set
.....		