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UV Sterilizer

UV Sterilizer Disinfecting Equipment WL-UV



UV STERILIZER DISINFECTING EQUIPMENT

Features:

- 1.Special safe design for public swimming pool and private pool. No risk to swimmer because of safety voltage of 12V.
- 2.Different from the normal revolving design,it adopts particular buckle for UV tube to avoid its damage during installation.
- 3.It uses purely physical method to sterilize the pool water,no chemical residue,non-corrosive,non-toxic side effect after sterilizing by UV sterilizer.No health hazards to human skin and body.
- 4.Compared with CH and ozone generator,UV sterilizer is easy to install,economical and low maintenance too.
- 5.A humanistic design to caution the working situation of UV sterilizer by LED light,and this make the repair and maintenance so easy.
- 6.The sterilization rate of bacteria and virus could reach 99% to 99.9% within 2s,includes flu,hepatitis virus,coli,staphylococci,bacillus subtilis,ect.

UV STERILIZER DISINFECTING EQUIPMENT

Features:

- 1.Special safe design for public swimming pool and private pool. No risk to swimmer because of safety voltage of 12V.
- 2.Different from the normal revolving design,it adopts particular buckle for UV tube to avoid its damage during installation.
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Model	Size(mm)	Power(W)	Design Flow (m ³ /h)	Voltage(V)	Lamp Quantity	Inlet /Outlet(Inch)	Life	Ballast
WL-UV14*20	460*125*320	28	1.5-2	12	14W*2	1.5"	8000-10000	Inductance /Electron
WL-UV14*4	L700*ø170	56	3-4	12	14W*4	1.5"	8000-10000	Inductance /Electron
WL-UV14*6	L700*ø170	84	5-6	12	14W*6	1.5"	8000-10000	Inductance /Electron
WL-UV14*8	L700*ø200	112	7-8	12	14W*8	1.5"	8000-10000	Inductance /Electron
WL-UV14*10	L700*ø200	140	9-10	12	14W*10	1.5"	8000-10000	Inductance /Electron
WL-UV14*12	L700*ø330	168	11-12	12	14W*12	2.0"	8000-10000	Inductance /Electron
WL-UV14*14	L700*ø330	196	13-14	12	14W*14	2.0"	8000-10000	Inductance /Electron
WL-UV14*16	L700*ø330	224	15-16	12	14W*16	2.0"	8000-10000	Inductance /Electron
WL-UV14*18	L700*ø330	252	17-18	12	14W*18	2.0"	8000-10000	Inductance /Electron
WL-UV14*20	L700*ø330	280	18-20	12	14W*20	2.0"	8000-10000	Inductance /Electron

UV Sterilizer Disinfecting Equipment WL-UVC



UV STERILIZER DISINFECTING EQUIPMENT

Ultraviolet is accepted all over the world as a reliable, cost-effective and above all environmentally friendly aquarium water disinfection solution.

UV-C radiation destroys the genetic structure of bacteria and Viruses, and inhibits their ability to multiply, rendering them harmless.

Features

*Physical sterilization, no side effects, no secondary pollution.

*Simple, efficient, small occupation.

WL-UVC series full flow ultraviolet disinfectant device uses a special made high power ozone free ultraviolet germicidal lamp. The device is also equipped with a

micro carbon austenite stainless steel barrel with a specially processed interior, while the exterior of the barrel is also specially polished. The result of this is the water passing the barrel would be radiated and receive 253.7nm(UVC) of ultraviolet with passing through the barrel, providing a excellent disinfectant effect.

Feature

- 1.The reactor use 304 polished stainless steel, the smooth interior leaves no blind spot for sterilization.
- 2.The ultraviolet light tube is equipped with a quartz sleeve, to ensure optimal working temperature.
- 3.The electrical configuration of the device is suitable to most electrical specifications.
- 4.Special exterior design makes the device convenient to use.
- 5.All round sterilization, highly efficient, sterilization rate up to 99.9%.
- 6.High output, physical sterilization, no side effects, no secondary pollution.
- 7.The amount of water that can be sterilized ranges from 5.5-250T/H. The device adapts to swimming pools, spa and water parks of various sizes.

Model	Power (W)	Rated Flow (m ³ /h)	Working (V)	Cabinet	Cabinet Size LxDxH (mm)	Lamp Power WxQuantity	Inlet & Outlet Diameter DN
WL-UVCn-78	78	5.5	220V/50Hz	304SS	930x108x720	39Wx2	Dn32 screw
WL-UVCn-160	160	12	220V/50Hz	304SS	930x108x720	80Wx2	Dn50 screw
WL-UVC-240	240	20	220V/50Hz	304SS	930x159x780	80Wx3	Dn65
WL-UVC-320	320	25	220V/50Hz	304SS	930x159x780	80Wx4	Dn80
WL-UVC-465	465	35	220V/50Hz	304SS	1630x219x830	155Wx3	Dn100
WL-UVC-620	620	45	220V/50Hz	304SS	1630x219x830	155Wx4	Dn80 or Dn100
WL-UVC-775	775	60	220V/50Hz	304SS	1630x219x1080	155Wx5	Dn150
WL-UVC-930	930	80	220V/50Hz	304SS	1630x325x1180	155Wx6	Dn150
WL-UVC-1280	1280	90	220V/50Hz	304SS	1630x325x1180	320Wx4	Dn150
WL-UVCP-1085	1085	100	220V/50Hz	304SS	1630x325x1180	155wx7	Dn150
WL-UVCP-1395	1395	125	220V/50Hz	304SS	1630x325x1200	155wx9	Dn150
WL-UVCP-1600	1600	110	220V/50Hz	304SS	1630x325x1400	320Wx5	Dn150
WL-UVCP-1705	1705	150	220V/50Hz	304SS	1630x325x1500	155wx11	Dn200
WL-UVCP-1920	1920	130	220V/50Hz	304SS	1630x325x1500	320Wx6	Dn150

WL-UVCP-2240	2240	150	220V/50Hz	304SS	1630x377x1500	320Wx7	Dn150
WL-UVCP-2560	2560	180	220V/50Hz	304SS	1630x377x1500	320Wx8	Dn150
WL-UVCP-2880	2880	200	220V/50Hz	304SS	1630x377x1500	320Wx9	Dn150
WL-UVCP-3840	3840	250	220V/50Hz	304SS	1630x426x1500	320Wx12	Dn250

Technical Parameters

Note:

- 1.Lamp service life≥9000H
- 2.UVCn: thread connection; UVC: flange connection; UVCP: flange connection; all the control box are painted carbon steel.
- 3.Can be equipped with manual cleaning device, automatic flushing device, or advanced online monitoring instrument and remote control system.

UV Sterilizer For Seawater UVM Series



UVM SERIES UV STERILIZER FOR SEAWATER DISINFECTING EQUIPMENT

UVM series UV sterilizer is specially designed for sea water conditions, the reaction chamber is made of noncorrosive and high quality organic material, to ensure a long service life. This UV sterilizer has excellent performance of sterilization and water purification, non-toxic and harmless. It is an ideal solution for aquarium and aquaculture.

Advantages:

- 1.Simple in-line chamber design for easy installation and maintenance.
- 2.PVC plastic chamber is compatible for fresh water, seawater, chlorine feeder and salt chlorinator.
- 3.Lamp service life: 9000-10000 hours of operation, approximate 12 months of continuous working.
- 4.With over temperature protection, preventing damage from overheating.
- 5.General operation and maintenance: Quartz sleeve is to be cleaned every 6-12 months and to be replaced every 24 months. UV lamp is to be replaced every year for continuing service.

Model	Flow rate(m ³ /h)				Product size(mm)	Connect ion size (inch)	VOLT age (V)	Po wer (W)	Working pressur e (kg/c m ²)	Worki ng temperatur e(°C)
	16mj/c m ²		30mj/c m ²							
	UVT= 80%	UVT= 90%	UVT= 80%	UVT= 90%						
UVMS-1	4.86	5.56	2.6	3.05	D89*786	2	220	33	2.8	2-40
UVMS-2	9.27	10.85	4.97	5.76	D89*786	2	220	65	2.8	2-40

UVMS-3	12.43	14.56	6.55	7.68	D89*946	2	220	85	2.8	2-40
UVMS-4	15.6	18.53	8.36	9.83	D89*1241	2	220	120	2.8	2-40
UVMM-1	5.88	7.23	3.16	3.84	D114*810	2	220	33	2.8	2-40
UVMM-2	11.3	13.9	6	7.46	D114*810	2	220	65	2.8	2-40
UVMM-3	15.14	18.53	8.14	9.94	D114*970	2	220	85	2.8	2-40
UVMM-4	19.21	23.73	10.17	12.66	D114*1265	2	220	120	2.8	2-40
UVML-1	24.18	36.61	12.88	19.43	D219*988	2	220	85	2.8	2-40
UVML-2	30.51	46.1	16.16	24.86	D219*1288	2	220	120	2.8	2-40
UVML-3	/	/	19.05	/	D219*988	2	220	125	2.8	2-40
UVML-4	/	/	30.51	/	D219*1288	2	220	225	2.8	2-40

UV Sterilizer For Seawater WL-UVX



UVX Series UV Sterilizer is specially designed for sea water environment. The housing is made of high quality PVC, which is anti-corrosion and durable. Equipped with UV-C lamp and high purity quartz sleeves for high efficient and long term sterilization. The disinfection process is fully closed, with sound and light alarm device, no chemical reaction and by-products.

UVX SERIES UV STERILIZER FOR SEAWATER

Specially designed for sea water environment. The housing is made of high quality PVC, which is anti-corrosion and durable. Equipped with UV-C lamp and high purity quartz sleeves for high efficient and long term sterilization. The disinfection process is fully closed, with sound and light alarm device, no chemical reaction and by-products.

Advantages:

- 1.High quality UV-C lamp which can achieve 99% sterilization rate.
- 2.Stable and accurate dosage, service life of lamp is more than 10,000 hours.
- 3.Excellent quartz tube provides transmittance over 99%.
- 4.Safe and reliable operation, simplified operation and reduced maintenance.

Model	Flow rate(m ³ /h)	Total power(W)	Voltage(V)	Connection size(mm)
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WL-UVX46	5	46	220/50Hz	DN63
WL-UVX92	8	92	220/50Hz	DN63
WL-UVX160	15	160	220/50Hz	DN63
WL-UVX320	25	320	220/50Hz	DN63

Medium Pressure UV Sterilizer



Medium pressure UV is a very effective disinfection method. The energy output of medium-pressure UV is dozens to hundreds of times that of low pressure lamps. Its output wavelength range is wide, between 230nm and 370nm. All bacteria and viruses can be killed. While destroying the DNA structure of the microorganisms, it also breaks down the microorganisms into small fragments, which can permanently inactivate the chlorine-resistant microbial tissues, so that microorganisms completely lose the ability of regeneration and resurrection.

MEDIUM PRESSURE UV STERILIZER DISINFECTING EQUIPMENT

Medium pressure UV is a very effective disinfection method. The energy output of medium-pressure UV is dozens to hundreds of times that of low pressure lamps. Its output wavelength range is wide, between 230nm and 370nm. All bacteria and viruses can be killed. While destroying the DNA structure of the microorganisms, it also breaks down the microorganisms into small fragments, which can permanently inactivate the chlorine-resistant microbial tissues, so that microorganisms completely lose the ability of regeneration and resurrection.

The use of medium pressure ultraviolet in swimming pool and other water environment can not only be used for disinfection, but also decompose chloramine, reduce disinfection by-products, and provide a comfortable and healthy water environment.

Advantages:

1. Wide range of sterilization

Can permanently inactivate chlorine-resistant microorganisms, such as Legionella pneumophila, escherichia coli, pseudomonas, cryptosporidium, amoeba, bacteria and other disease-causing pathogens.

2. Strong sterilization effect

Can avoid the occurrence of photoreactivation repair and dark repair of microorganisms' DNA, and has a permanent inactivation effect on microorganisms. There is no resurrection reaction and no flora rebound phenomenon.

3. No secondary pollution

In the disinfection process, no toxic and harmful by-products will be produced, the composition and properties of the disinfected water will not be changed, and no secondary pollution to the water and the surrounding environment.

4. Continuous disinfection with large water flow

At present, UV disinfection technology has reached the daily processing capacity of 1.5 million tons of water in practical applications, and it can be large if necessary. This is not possible for the chlorine and ozone disinfection methods.

5.Low use cost

The operation and maintenance of disinfection is simple, and the operation cost is very low.

6.Easy to install and operate

Modular design, easy installation, suitable for complex installation on-site conditions, and will not damage the on-site equipment, pipelines and building structures. Can be directly to the pipelines, horizontal and vertical installation is optional.

7.Small footprint and no noise

The medium-pressure UV sterilizer that processes 10,000 tons of purified water per day requires only 6 m² of operating space.

8. Decompose residual chlorine in water degrade compound chlorine

It has the ability to degrade the chlorine, including monochloramine, dichloroamine, trichloroamine, etc., which effectively eliminates the production of the carcinogen trihalomethane and its impact on human body.

Features:

1.Medium pressure UV lamp

Using medium pressure high-quality American imported Lightsources brand UV lamps with high power, reducing the quantity of lamp can handle large water flow.

2.Temperature Probe

Instantly detect the temperature of the water to ensure that the equipment runs at a working temperature of 0-45 degrees.

3.UV intensity probe

The UV intensity monitor used in the medium pressure UV sterilizer only responds to specific UV wavelengths that have a sterilizing effect. It can be connected with a computer and PLC, which saves power consumption for the operation of the system.

4.Quartz sleeve

In order to better protect the UV lamps, there will be a quartz sleeve outside each UV lamp. The high-quality quartz sleeve can ensure that the transmittance of UV rays reaches more than 90%.

5.Daily cleaning

Equipped with an automatic cleaning system, the quartz sleeve can be automatically cleaned regularly according to the reading of the UV intensity detector. During the cleaning process, the system runs normally, without water shut-off or manual participation, which greatly reduces the workload of on-site personnel.

Model	Disinfection power(KW)	Power of each lamp(KW)	Quantity of lamps(pcs)	Water volume(T/H)	Inlet and outlet size	Power supply
WL-UUVC-1/1.0KW	1	1	1	30-40	DN100	220V/50Hz
WL-UUVC-1/2.0KW	2	2	1	60-80	DN125	220V/50Hz

WL-UUVC-1/3.0KW	3	3	1	100-125	DN150	220V/50Hz
WL-UUVC-2/2.0KW	4	2	2	130-150	DN200	380V/50Hz
WL-UUVC-2/3.0KW	6	3	2	200-250	DN250	380V/50Hz
WL-UUVC-3/3.0KW	9	3	3	250-300	DN250	380V/50Hz

UV Sterilizer For Seawater WL-UVD



UVD SERIES UV STERILIZER FOR SEAWATER

The housing is made of PVC, the internal reactor is made of polished and passivated stainless steel, which is corrosion resistant and durable. Equipped with high quality UV lamps to ensure high efficient and long term sterilization. The disinfection process is fully closed, no chemical reaction and by-products. Suitable for aquarium, aquaculture, swimming pools, hot spring and other water environments.

Advantages:

- 1.High quality UV-C lamp which can achieve 99% sterilization rate.
- 2.Stable and accurate dosage, service life of lamp is more than 10,000 hours.
- 3.Excellent quartz tube provides transmittance over 99%.
- 4.Safe and reliable operation, simplified operation and reduced maintenance.

Model	Flow rate(m ³ /h)	Total power(W)	Voltage(V)	Connection size(mm)
WL-UVD300	25	300	220/50Hz	DN100
WL-UVD600	60	600	220/50Hz	DN150
WL-UVD900	80	900	220/50Hz	DN150
WL-UVD1200	100	1200	220/50Hz	DN200
WL-UVD1500	120	1500	220/50Hz	DN200
WL-UVD1800	140	1800	220/50Hz	DN200
WL-UVD2100	160	2100	220/50Hz	DN250
WL-UVD2400	180	2400	220/50Hz	DN250
WL-UVD2700	200	2700	220/50Hz	DN250
WL-UVD3000	250	3000	220/50Hz	DN150

UV Sterilizer Disinfecting Equipment WL-UVD



UV sterilizer is an effective product to destroy the genetic structure of bacterial and viruses, and inhibits their ability to multiply, rendering them harmless.

Features:

- 1.High quality UV-C lamp that achieve 98% sterilization rate.
- 2.Durable UV-C lamp more than 8,000 hours life time.
- 3.High quality quartz Sleeve has more than 90% transmittance rate.
- 4.Available in 50Hz or 60Hz when request.
- 5.Application in swimming pool and fish pond.

Model	Power(W)	Flow rate(m ³ /h)	Voltage (V)	Lamp size(inch/mm)	Pipe size(inch/mm)	Fish pond volum	Pool volume(m ³)
WL-UVD40	40	5	220	1	1.5"50mm	15	30
WL-UVD80	80	8	220	1	1.5"50mm	24	48
WL-UVD100	100	10	220	1	1.5"50mm	30	60
WL-UVD120	120	12	220	1	1.5"50mm	36	72

UV Sterilizer



The sterilization rate of bacteria and virus could reach 99% to 99.9% within 2seconds, including flu,hepatitis virus,coli,staphylococci,bacillus subtilis,etc.

Model	Size(mm)	Power(W)	Design Flow (m ³ /h)	Voltage(V)	Lamp Quantity	Inlet/Outlet (Inch)	Life	Ballast
WL-UV14*2	460*125*320	28	1.5-2	12	14W*2	1.5"	8000-10000	Inductance/Electron
WL-UV14*4	L700*ø170	56	3-4	12	14W*4	1.5"	8000-10000	Inductance/Electron

WL-UV14*6	L700*ø170	84	5-6	12	14W*6	1.5"	8000-10000	Inductance/Electron
WL-UV14*8	L700*ø200	112	7-8	12	14W*8	1.5"	8000-10000	Inductance/Electron
WL-UV14*10	L700*ø200	140	9-10	12	14W*10	1.5"	8000-10000	Inductance/Electron
WL-UV14*12	L700*ø330	168	11-12	12	14W*12	2.0"	8000-10000	Inductance/Electron
WL-UV14*14	L700*ø330	196	13-14	12	14W*14	2.0"	8000-10000	Inductance/Electron
WL-UV14*16	L700*ø330	224	15-16	12	14W*16	2.0"	8000-10000	Inductance/Electron
WL-UV14*18	L700*ø330	252	17-18	12	14W*18	2.0"	8000-10000	Inductance/Electron
WL-UV14*20	L700*ø330	280	18-20	12	14W*20	2.0"	8000-10000	Inductance/Electron

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