UV-G型 紫外线消毒杀菌设备

UV-G Ultraviolet Ray Disinfection Equipment

一、紫外线消毒杀菌系统性能技术参数

I Properties and technical parameters of the ultraviolet ray disinfection system

序号 Serial No.	产品型号 Product Model	石英管规格 Quartz Tube Size	UV灯管型号 UV Lamp Model	功率(W) Power	电压(V) Voltage	电流(Hz) Electric Current	进出水管径 Inlet/Outlet Pipe Size	消毒器过流腔体直径×长(mm) Sterillzer Flow Cavity Diameter × Length(mm)
Ⅰ型								
1	UV-I/0.5-1LDW	Φ24×840	T5	20	220	50	DN32	Φ76×745
2	UV-I/0.5-1KDW	Φ24×840	T5	20	220	50	DN32	Φ76×745
3	UV-I/1-2LDW	Φ24×840	T5	40	220	50	DN32	Φ76×745
4	UV-I/1-2KDW	Φ24×840	T5	40	220	50	DN32	Φ76×745
5	UV-I/3-5LDW	Φ24×840	T5	80	220	50	DN32	Φ108×745
6	UV-I/3-5KDW	Φ24×840	T5	80	220	50	DN50	Φ114×745
7	UV-I/8-10FDW	Φ24×840	T5	160	220	50	DN50	Φ114×745
8	UV-I/8-10KDW	Φ24×840	T5	160	220	50	DN50	Φ159×745
9	UV-I/10-15FDW	Φ24×840	T5	240	220	50	DN65	Φ159×745
10	UV-I/10-15KDW	Φ24×840	T5	240	220	50	DN65	Φ159×745
11	UV-I/15-20FDW	Φ24×840	T5	320	220	50	DN65	Φ159×745
12	UV-I/25-30FDW	Φ24×840	T5	480	220	50	DN80	Φ204×745
13	UV-I/30-40FDW	Φ24×840	T5	640	220	50	DN100	Φ204×745
Ⅱ型								
1	UV-II/0.5-1FDW	Φ24×875	T5	20	220	50	DN32	Φ76×760
2	UV-II/0.5-1KDW	Φ24×875	T5	20	220	50	DN32	Φ76×760
3	UV-II/0.5-1LDW	Φ24×875	T5	20	220	50	DN32	Φ76×760
4	UV-II/1-2FDW	Φ24×875	T5	40	220	50	DN32	Φ76×760
5	UV-II/1-2KDW	Φ24×875	T5	40	220	50	DN32	Φ76×760
6	UV-II/1-2LDW	Φ24×875	T5	40	220	50	DN32	Φ76×760
7	UV-II/3-5FDW	Φ24×875	T5	80	220	50	DN50	Φ108×760
8	UV-II/3-5KDW	Φ24×875	T5	80	220	50	DN50	Φ108×760
9	UV-II/3-5LDW	Φ24×875	T5	80	220	50	DN50	Φ108×760
10	UV-II/5-8FDW	Φ24×875	T5	120	220	50	DN50	Φ114×760
11	UV-II/5-8KDW	Φ24×875	T5	120	220	50	DN50	Φ114×760
12	UV-II/5-8LDW	Φ24×875	T5	120	220	50	DN50	Φ114×760
13	UV-II/8-10FDW	Φ24×875	T5	160	220	50	DN50	Φ114×760
14	UV-II/8-10KDW	Φ24×875	T5	160	220	50	DN50	Φ114×760
15	UV-II/10-15FDW	Φ24×875	T5	240	220	50	DN50	Φ114×760
16	UV-II/10-15KDW	Φ24×875	T5	240	220	50	DN50	Φ114×760
17	UV-II/15-20FDW	Φ24×875	T5	320	220	50	DN65	Φ159×760
18	UV-II/25-30FDW	Φ24×875	T5	480	220	50	DN65	Φ159×760
19	UV-II/30-40FDW	Φ24×875	T5	640	220	50	DN80	Φ204×760

序号 Serial No.	产品型号 Product Model	石英管规格 Quartz Tube Size	UV灯管型号 UV Lamp Model	功率(W) Power	电压(V) Voltage	电流(Hz) Electric Current	进出水管径 Inlet/Outlet Pipe Size	消毒器过流腔体直径×长(mm) Sterilizer Flow Cavity Diameter ×Length(mm)
Ⅲ型								
1	UV–III/0.5–1FDW	φ24×875	T5	20	220	50	DN32	φ76×790
2	UV–III/0.5–1KDW	φ24×875	T5	20	220	50	DN32	φ76×790
3	UV–III/1–2FDW	φ24×875	T5	40	220	50	DN32	φ76×790
4	UV–III/1–2KDW	φ24×875	T5	40	220	50	DN32	φ108×790
5	UV–III/3–5FDW	φ24×875	T5	80	220	50	DN50	φ108×790
6	UV–III/3–5FDW–2	φ24×875	T5	80	220	50	DN50	φ108×790
7	UV–III/3–5KDW	φ24×875	T5	80	220	50	DN50	φ114×790
8	UV–III/3–5FDW–2	φ24×875	T5	80	220	50	DN50	φ108×790
9	UV–III/5–8FDW	φ24×875	T5	120	220	50	DN50	φ114×790
10	UV–III/5–8KDW	φ24×875	T5	120	220	50	DN50	φ114×790
11	UV–III/8–10FDW	φ24×875	T5	160	220	50	DN50	φ114×790
12	UV–III/8–10KDW	φ24×875	T5	160	220	50	DN50	φ114×790
13	UV–III/10–15FDW	φ24×875	T5	240	220	50	DN50	φ114×790
14	UV–III/10–15KDW	φ24×875	T5	240	220	50	DN50	φ114×790
15	UV–III/15–20FDW	φ24×875	T5	320	220	50	DN65	φ159×790
16	UV–III/20–25FDW	φ24×875	T5	400	220	50	DN65	φ159×790
17	UV–III/25–30FDW	φ24×875	T5	480	220	50	DN65	φ159×790
18	UV–III/30–40FDW	φ24×875	T5	640	220	50	DN80	φ204×790
19	UV–III/45–50FDW	φ24×1220	T5	960	220	50	DN80	φ204×790
20	UV–III/50–60FDW	φ24×1220	T5	1680	220	50	DN100	φ325×790

产品型号说明 Instructions for Product Models

UV-I/0.5-1LDW

UV I 0.5-1 L D W

- W 电流 Electric Current
- D 单相 Uniphase
- L 外丝接头 Outside Screwed Joint
- 0.5-1 流量 Flow Rate
- I 紫外线型号 UV Model
- UV 紫外线杀菌器名称 The Name of UV Sterilizer

UV-II/0.5-1KDW

UV II 0.5-1 K D W

- W 电流 Electric Current
- D 单相 Uniphase
- K 快装接头 Quick Coupler
- 0.5-1 流量 Flow Rate
- II 紫外线型号 UV Model
- UV 紫外线杀菌器名称 The Name of UV Sterilizer

UV-III/0.5-1FDW

UV III 0.5-1 F D W

- W 电流 Electric Current
- D 单相 Uniphase
- F 法兰 Flange
- 0.5-1 流量 Flow Rate
- III 紫外线型号 UV Model
- UV 紫外线杀菌器名称 The Name of UV Sterilizer

1、此技术参数表所提供的设备适用于净水水质消毒，如：自来水、纯净水、水产养殖用水、食品加工用水、分质供水、医药用水等、

2、杀菌效率取决于水体的透明度、杂质及温度等，最低为99.9%或特殊设计。

3、可根据用户需要配置各种先进的控制系统，如：紫外线强度监测系统，水温监测系统、消毒时间累计系统等。

4、可根据用户需要配置手动或自动清洗装置。

1 This technical parameter table of the provided equipment shall be suitable for the disinfection of clear water, including tap water, purified water, aquaculture water, food processing water, multi-leveled water, and pharmaceutical grade water.

2 The sterilizing efficiency shall depend on the water clarity, impurity and temperature, and the minimum efficiency shall be 99.9% or the special design.

3 Various advanced control systems shall be collocated as per the demand of users, such as the ultraviolet ray intensity monitoring system, the water temperature monitoring system, and the system for accumulation of sterilizing time.

4 The manual or automatic washing devices shall be collocated as per the demand of users.

二、紫外线消毒杀菌器使用条件

II Service conditions of the ultraviolet ray sterilizer

1、水温：8℃–40℃；使用环境温度：5℃–50℃；周围相对温度：不大于93%（温度25℃时）。

2、电压：交流电220V±10V, 50HZ。

3、紫外线杀菌器的使用压力≦0.30MPa

4、饮用水：进入处理设备的水质其1cm透射率（T254）：95%–100%；在原水水质低于国家饮用水标准时（如：色度高于15度、浊度高于5度、含铁时高于0.3毫克/升），先采用其他净化的过滤等方法，使其净化达标后用紫外线水质处理设备净化。

5、养殖用水：经过砂滤或其它处理过滤后的淡水、海水。

6、污水：根据杀菌要求，进入处理设备的水质其1cm透射率（T254）：≧40%；其它要求满足国家《污水综合排放标准》GB8978–2002中的一级标准。

7、需要处理的水、如水质不能达到上述要求，应先经过适当的前处理，如絮凝、沉淀、过滤等方法，以除去水中的杂质。

1 Water temperature: 8℃ to 40℃, the temperature of service environment: 5℃ to 50℃, the surrounding relative temperature: not exceed 93% when the temperature is 25 ℃.

2 Voltage: AC 220±10V, 50HZ.

3 Working pressure of the ultraviolet ray sterilizer: ≦ 0.30 MPa.

4 Drinking water: 1cm transmissivity (T254) of the water that feeds the processing equipment: 95% to 100%. In case the raw water quality is lower than the national standard for drinking water (like the water of which the chroma exceeds 15 degrees, the turbidity is higher than 5 degrees, and the iron content exceeds 0.3 mg/l), other purifying and filtering methods shall be suggested first. And the ultraviolet treatment shall be suggested only when the raw water quality has reached the purification standard.

5 Aquaculture water: the fresh water or sea water that have been sand filtered or filtered though other treating methods.

6 Waste water: 1cm transmissivity (T254) of the water that feeds the processing equipment: ≧40% as required by the sterilizing standard, and other requirements to be met as per the primary standard of *The Comprehensive Standard for Sewage Discharge GB8978-2002*.

7 If the quality of the water, that needs treatment, fails to reach the above standard, proper pretreatment shall be required through such methods as flocculation, sedimentation, and filtration so as to remove the impurities in the water.

三、紫外线消毒杀菌器的维护与保养

III Maintenance of the ultraviolet sterilizer

1、定期检查，确保紫外灯的正常运行。

2、连续使用8000小时或一年之后，应更换紫外线灯管。以确保高杀菌率，请特别注意紫外线应持续在开的状态，因反复的开、关会严重影响灯管的使用年限。

3、更换紫外线灯管时，先将灯管电源插座拔掉，拿出紫外线灯管。更换新的灯管时，注意勿以手指触及新灯管的石英玻璃。因为污点会影响杀菌灯光，同时小心地将灯管放入不锈钢杀菌器。

4、如果水中有硬度（钙或镁）物质、铁或锰，那么石英管需要定期清洗。清洗石英管后应戴上专用塑胶手套将石英管小心地装入反应器，装完密封圈要检查有无漏水现象，插上电源，确使侦测灯稳定发光。

注：紫外线对细菌有强大的杀伤力，对人体同样有一定的伤害，人体最易受伤的部位是眼睛之眼角膜，因此在任何时候都不可以用眼睛直视点亮的灯管，以免受伤，万一必须要看时，应用普通玻璃（戴眼镜）或透光塑胶片，作为防护面罩。千万勿用错石英玻璃，因为普通玻璃对紫外线几乎完全无法透过的。一旦受伤，不必惊慌，面部灼伤，几天后表皮脱落，不治而愈。眼睛受伤会红肿、流泪、刺痛，约三、四天才去痊愈。无论如何，如遇到伤害，仍建议立即至医生处求诊。

1 Regular check shall be required to ensure the normal operation.

2 When UV quartz burners have served for more than 8,000 hours or a year, they shall be replaced to ensure high sterilizing rate. Be sure to keep the UV quartz burners on continuously, and don't switch them on and off frequently, which will effect their durable service.

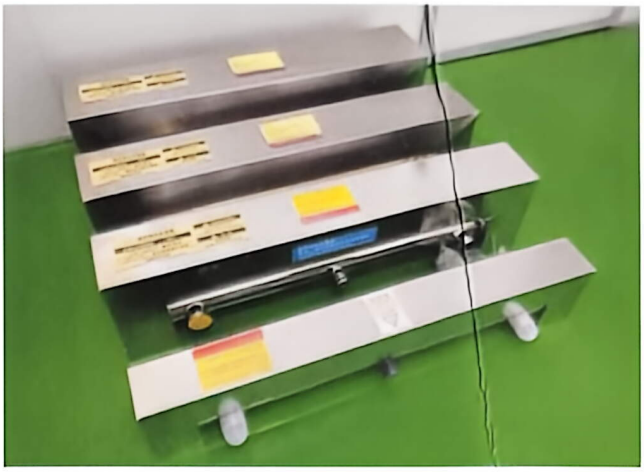
3 When changing UV quartz tubes, cut off the power first and then take out the quartz burners. Don't touch the new quartz glass with your fingers to avoid undesirable sterilizing efficiency. And finally put the new burners into the stainless steel sterilizer.

4 If there exist in the water such hard materials as calcium, magnesium, iron or manganese, the quartz tubes shall be cleaned regularly. After cleaning, put on cleaning gloves before loading the quartz tubes into the reactor, fix the sealing rings, and then check to see if there is any leakage, and connect the power finally.

Note: Since the ultraviolet ray is of powerful kill-ability to bacteria, it may also cause certain injury to the human body, especially to cornea. Therefore, direct exposure to the lighted tube with naked eyes shall not be allowed. In case of being necessary, glasses or transparent plastic sheet must be worn as protective mask. Under no circumstances shall quartz glass instead of ordinary glass be used as protective mask. Once injured, don't be too scared. For such facial burns, it takes only few days to recover without cure. Though eye injury may lead to swelling, tears running, and stabbing pain, it takes three or four days to recover as well. Anyway, it is still suggested to see a doctor once injured.



渠道过流式紫外线：10–200T/H



I型：0.5T–50T/H



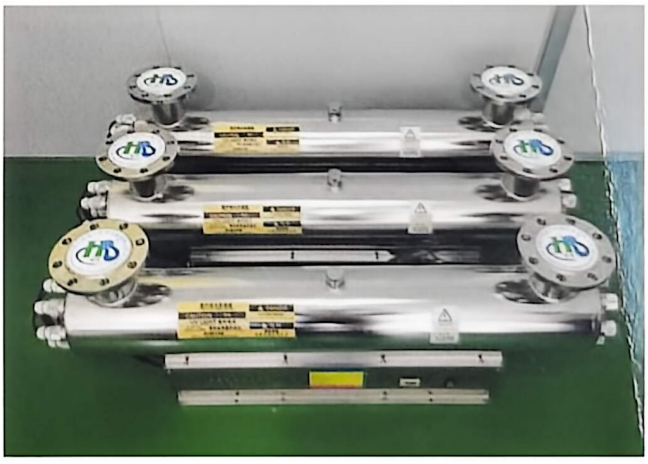
II型：0.5T–100T/H



II型：0.5T–100T/H



III型：0.5T–50T/H



III型：0.5T–50T/H