



## UV-C Disinfection Systems

F & K Swimming UV-C Sterilizer

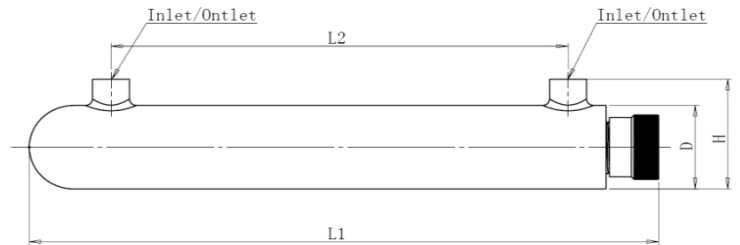


**USER MANUAL**

# F & K Series UV Sterilizer Specifications

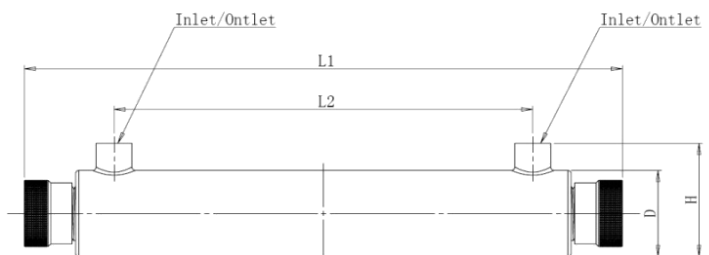
## F Series UV Sterilizer

No.	Model	30mj/cm2 Flow rate		Lamp watts	Inlet/Outlet	Reactor Size (mm)				Weight (KG)
		GPM	m3/Hr			L1	L2	D	H	
1	HIDRO-F0.23	1	0.23	6W	G 1/4" inner thread	270	175	51	67	0.6KG
2	HIDRO-F0.45	2	0.45	14W	G 1/2" inner thread	360	260	51	67	1.2KG
3	HIDRO-F1.35	6	1.35	25W	G 1/2" outer thread	510	400	63	88	2.3KG
4	HIDRO-F2.70	12	2.7	39W	G 3/4" outer thread	975	860	63	95	3.2KG
5	HIDRO-F5.50	24	5.5	80W	G 1 1/4" outer thread	975	820	76	108	4.8KG



## K Series UV Sterilizer

No.	Model	30mj/cm2 Flow rate		Lamp watts	Inlet/Outlet	Reactor Size (mm)				Weight (KG)
		GPM	m3/Hr			L1	L2	D	H	
1	HIDRO-K0.23	1	0.23	11W	G 1/4" inner thread	270	175	51	67	0.6KG
2	HIDRO-K0.45	2	0.45	14W	G 1/2" inner thread	360	260	51	67	1.2KG
3	HIDRO-K1.35	6	1.35	25W	G 1/2" outer thread	510	400	63	88	2.3KG
4	HIDRO-K2.70	12	2.7	39W	G 3/4" outer thread	975	860	63	95	3.2KG
5	HIDRO-K5.50	24	5.5	80W	G 1 1/4" outer thread	975	820	76	108	4.8KG

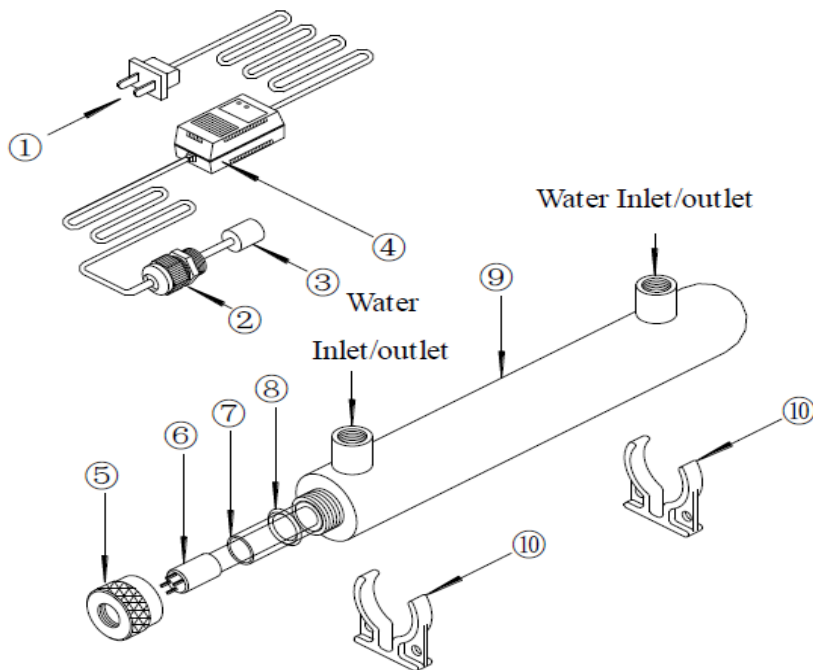


Specifications subject to change without notice, since our company reserves the change right.



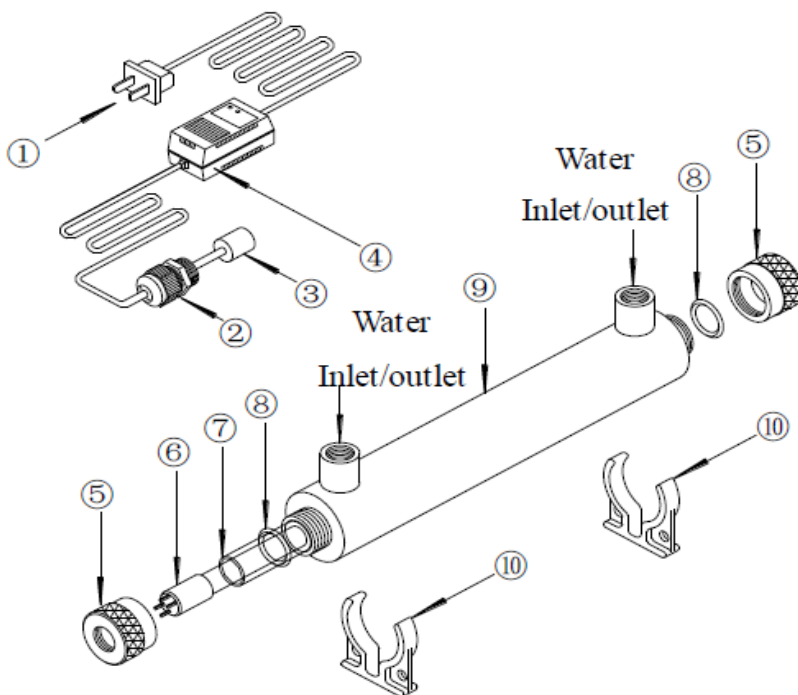
# 1. UV Sterilizer Structure

## 1.1 F Series UV Sterilizer Parts



No.	Description	Qty
①	Plug	1
②	Waterproof Connector	1
③	Lamp Connector	1
④	Ballast	1
⑤	Nut	1
⑥	UV Lamp	1
⑦	Quartz Sleeve	1
⑧	O Ring	1
⑨	Chamber	1
⑩	Bracket	2

## 1.2 K Series UV Sterilizer Parts



No.	Description	Qty
①	Plug	1
②	Waterproof Connector	1
③	Lamp Connector	1
④	Ballast	1
⑤	Nut	2
⑥	UV Lamp	1
⑦	Quartz Sleeve	1
⑧	O Ring	2
⑨	Chamber	1
⑩	Bracket	2



## 2. Installation

### 2.1 Installation and Operation

(1) Warning: Never keep any part of body within or directly look at the UV radiation without appropriate protector.

(2) Be sure the UV sterilizer is power off before maintenance or repair.

Please read this manual carefully and keep it for future reference before proceeding with the installation of the equipment.

### 2.2 Important Guideline

(1) Total Metallic Iron-less than 0.3ppm(0.3mg/L)

(2) Hydrogen Sulphide-less than 0.05ppm(0.05mg/L)

(3) Suspending Solids-less than 10ppm(10mg/L)

(4) Manganese-less than 0.05ppm(0.05mg/L)

(5) Water Hardness-less than 1.84g/L

The UV unit will operate more efficiently if the total hardness is less than 1.84g/L. Please soften the water before coming into UV sterilizer if the hardness exceed 1.84g/L.

### 2.3 Installation of UV Sterilizer

The UV sterilizer should be placed horizontally (the outlet and inlet upward), or it can placed vertically (the end of chamber without the wire should at the side near to the earth). Filtration should be applied before the UV sterilizer system to provide high quality pretreated water for UV disinfection, and the treated water should flow into the tap directly. Procedure for UV sterilizer installation is as follow:

(1) Unloose and take off the nut(s) on the end(s) of chamber.

(2) Fix sterilizer on the wall or equipment through the brackets.

(3) Insert the quarts sleeve into the chamber carefully, then cover the O-ring on the end of the quartz sleeve.

(4) Repeat steps 3 and 4 unit all the quartz sleeve are insert into the chamber.

(5) Screw the nut on the end of chamber and tighten it. Note: Do not use force implement to avoid breaking up the quarts sleeve.

(6) Check all the junctions and open the tap to see if leaks happen.

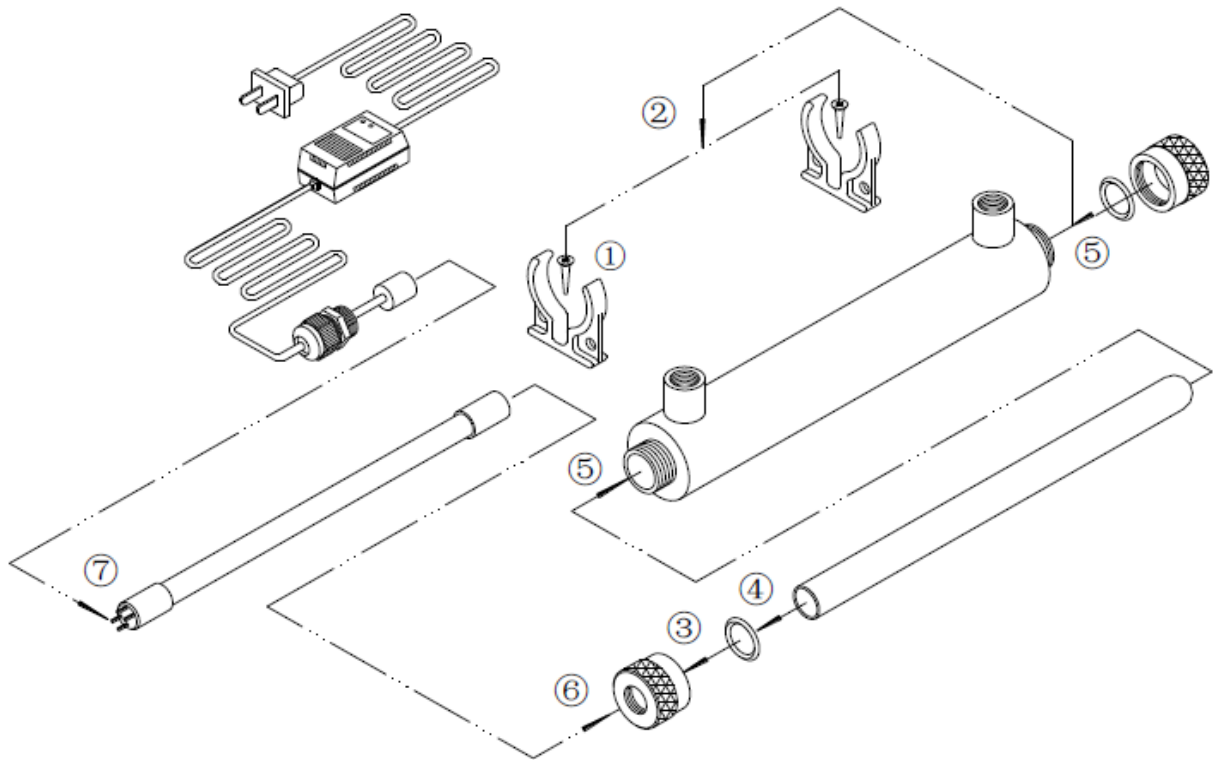
(7) Please install water flow controller before UV sterilizer if the water flow is too fast.

(8) Once it is determined that there are no leaks, connect the lamp with ballast, then insert into quartz sleeve. Screw the waterproof connector into the nut, and tighten it (No need to tighten the waterproof connector if not for continues work).

(9) Power on and to check whether the lamp works well or not. Warning: Do never look at the UV lamps with naked eyes when the UV lamp is power on.



Please assemble the sterilizer as the above steps in the flow chart



UV Sterilizer Assembling

### 3. Instructions of Operating & Maintenance

3.1 Caution: Be sure to unplug the unit before performing any work on the sterilizer.

(1) Regularly inspect you sterilizer unit to ensure that the UV lamp working properly. If the UV lamp fails, the audio and visual alarm will be triggered.

(2) Screw out the waterproof connector, and take out the fault lamp. Re-install a new UV lamp into the quartz sleeve and connect the wire. Screw the waterproof connector into the nut. You should pay attention that no water leaks at the all junctions. Then power on the unit to see if it works.

(3) Replace the UV lamp after one year of continual working time (9000 hours), to ensure high disinfection effect. Do not turn on and off the UV lamp frequently, it will reduce the lamp's effective life.

(4) Never touch the place where there is UV radiation.

### 4. Quality Warranty

1. Not responsible for any incidental or consequential damages of misuse.

2. One year guarantee for unit quality.