

Installation and operation manual

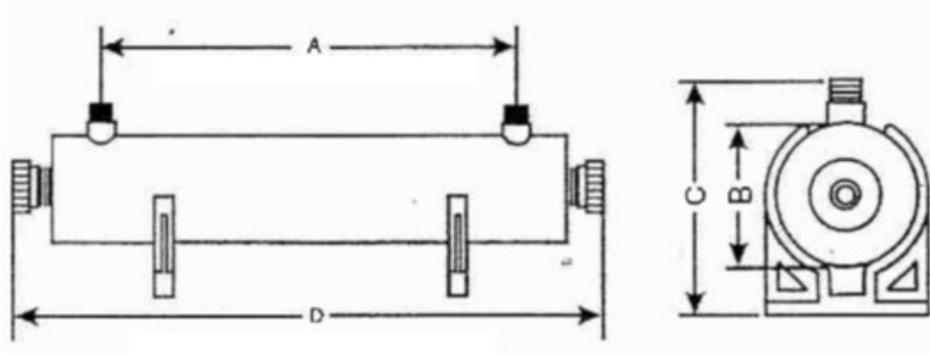
WATEX UVS SERIES

WATER ULTRAVIOLET STERILIZER

Models: WATEX UVS8, UVS18, UVS45



Read the instructions carefully before use!

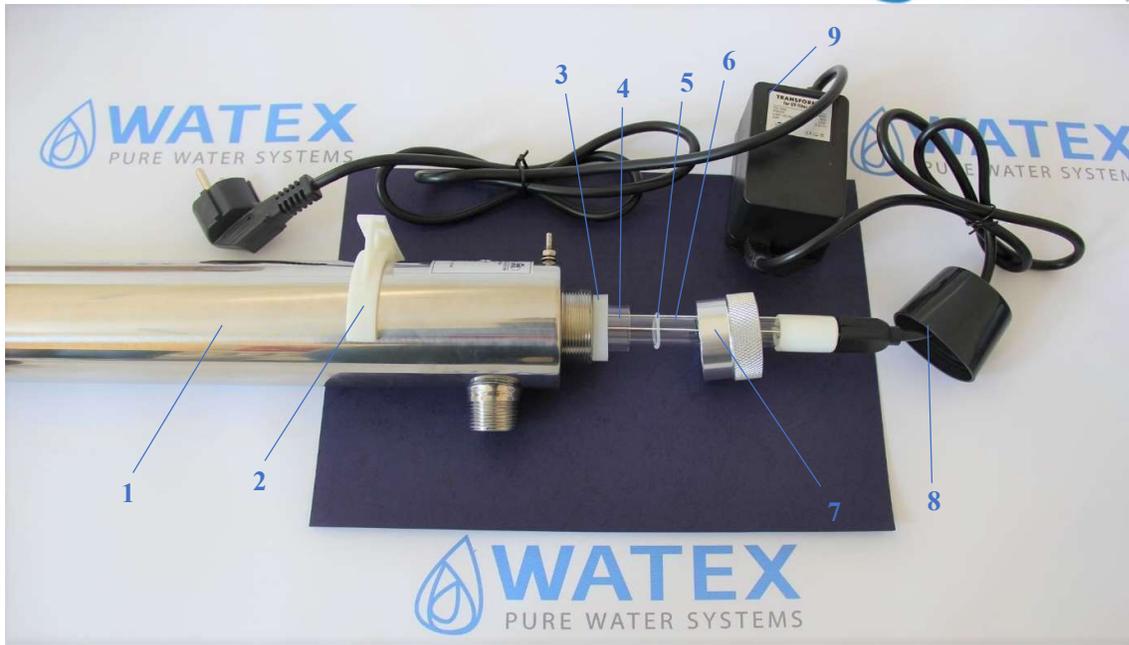


Technical data:

MODEL	UVS8	UVS18	UVS45
Body material	Stainless steel 304	Stainless steel 304	Stainless steel 304
Flow rate max.	8 liters/min	18 liters/min	45 liters/min
Inlet/outlet connection	1/2"	1/2"	3/4"
Power consumption	16 W	25 W	55 W
Electrical requirements	230V – 50Hz	230V-50Hz	230V-50Hz
Number of UV lamps	1	1	1
Centre distance IN-OUT A	255 mm	440 mm	815 mm
Chamber Diameter B	64 mm	64 mm	64 mm
Dimensions C	97 mm	97 mm	98 mm
Dimensions D	370 mm	544 mm	955 mm
Water pressure, max	10 bar	10 bar	10 bar
UV wave length	253.7 nm	253.7 nm	253.7 nm
UV dose	> 36 $\mu\text{W}/\text{cm}^2$	> 36 $\mu\text{W}/\text{cm}^2$	> 36 $\mu\text{W}/\text{cm}^2$
UV lamps life	9000 h	9000 h	9000 h
Shipping weight	1.45 kg	2.5 kg	3.6 kg

NOTES

1. Install the sterilizer equipment in a easy accessible location to facilitate inspection and maintenance.
2. Do not allow water sterilizer equipment to freeze.
3. Maximum recommended ambient temperature: 32°C.
4. Operating water temperature 2÷40°C.
5. Max operating pressure 7 bar.
6. Protection class IP63.



Item	Description
1	STAINLESS STEEL BODY
2	WALL MOUNT CLIPS (2 PIECES)
3	SEALING GASKETS (2 PIECES)
4	QUARTZ SLEEVE
5	RUBBER O-RING
6	UV LAMP
7	SS NUT
8	PVC CAP
9	ELECTRIC ADAPTER

CAUTION:

The ultra-violet rays are harmful to skin and eyes.

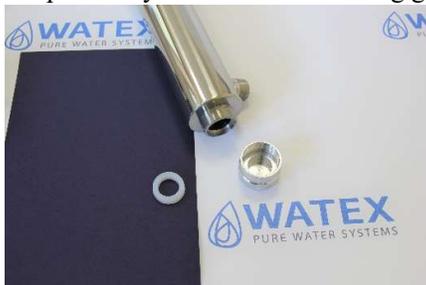
Ultraviolet lamp and quartz sleeve are easily damaged. Pay attention when removing or replacing lamp and quartz sleeve.

Assembling and installation instructions:

1. Open carton box and check if all UV Sterilizer parts are included.



2. UV sterilizer set includes: Stainless steel (SS) body, UV lamp, Quartz sleeve, Power adapter, Clips (2 pieces), sealing gaskets (2 pieces),
3. Check if glass sleeve and UV lamp glass are not broken.
4. All assembling and installation operations should be made with care, because quartz sleeve and UV lamp are easy breakable. Put sealing gasket at SS body end port and screw cup. Do not tighten.



5. On other SS body side insert quartz sleeve and put the second sealing gasket on quartz sleeve.



6. Tighten cups on both sides of SS body. Sealing gaskets should be pressed and tightened on both sides.
7. Insert UV lamp in SS body. Check if rubber o-ring on uv lamp is at the right place.



8. Connect Power adapter to UV lamp and plug adapter to power supply. Check if UV lamp switches on. If all is correct, switch off lamp and install UV sterilizer on the wall.



9. Use clips to put SS body on the wall. It is allowed to install UV sterilizer horizontally or vertically.



10. Water inlet and outlet connection points are not indicated and could be changed.
11. Install ball valves at inlet and outlet of UV sterilizer.
12. Pressurize the UV sterilizer with water and check for leakages.
13. Plug adapter to power supply and check if UV lamp switches on.

Electric adapter have two LED lamps – green and red.

1. If green and red LED is lightning, UV sterilizer works properly.
2. If only green LED is lightning, UV lamp is broken or not connected.
3. If LED lamps are not lightning, UV Sterilizer is not connected to Power supply.

Advices:

1. Install filter 1 micron cartridge before UV sterilizer, if incoming water quality is unclear.
2. Switch off UV Sterilizer, if water usage is not planned for long period.
3. UV sterilizer will not give efficiency if water will be dirty and quartz sleeve will be covered with sediments. Regular quartz sleeve checking and cleaning need to be done.
 - quartz sleeve is to be cleaned every 3-6 months, clean with alcohol or a detergent;
 - quartz sleeve is to be replaced every 24 months.
4. UV lamp replacement is recommended every 9.000-10.000 hours of operation. Approximately 9-12 months of continuous service.

Quartz sleeve cleaning or replacement:

1. Switch off UV sterilizer
2. Close inlet and outlet ball valves
3. Remove PVC cup and disconnect UV lamp from adapter.
4. Carefully withdraw UV lamp out from sleeve;
5. Reduce water pressure by side SS nuts. Water will come out.
6. Carefully remove quartz sleeve and clean and check. Replace if needed.
7. Install back quartz sleeve, tighten SS nuts, insert UV lamp, connect adapter, put PVC cup.
8. Switch on lamp and open water ball valves.
9. Check for leakage.