

# SSE-006 UV Water Sterilizer operator’s manual

## FOREWORD

This document includes all the information intended for the authority responsible for the use of the SSE-006 UV water sterilizer sold by DiaSys. This manual is designed to be a reference for easy operation and general maintenance and contains detailed descriptions of the features and specifications. The assumption is made that before making an attempt to operate the device, the operator is familiar with the operation of the water sterilizer and has read its Operator’s Manual.

<b>Importer:</b> DiaSys Technologies	1682 rue de la Valsiere 34790 GRABELS, FRANCE
<b>Field Service:</b>	Contact your local DiaSys Diagnostic representative for support.
<b>DiaSys Technologies® · DiaSys Diagnostic Systems®</b> are registered trademarks of DiaSys Diagnostic Systems GmbH	

## 1. Table of contents

<b>1. Table of contents</b> .....	<b>1</b>
<b>2. Safety</b> .....	<b>2</b>
<b>3. Precautions to do before using the device</b> .....	<b>2</b>
<b>4. Maintenance</b> .....	<b>2</b>
<b>5. Spare parts</b> .....	<b>2</b>
<b>6. Specifications</b> .....	<b>3</b>
<b>7. Content of kit</b> .....	<b>3</b>
<b>8. System Installation</b> .....	<b>4</b>

## SSE-006 UV Water Sterilizer operator's manual

### 2. Safety



First of all, take care of your skin and your eyes from **UV light** !!! Never look directly at the light tube while device is in operation. Do not remove the UV Lamp from the Reactor Chamber when applying electrical power. Wear SAFETY GOGLES if you need to look necessary.



Basic safety precaution should always be followed to reduce the risk of fire, electric shock. Make sure the leakage protection switch is installed before use.



Do not touch the UV Lamp directly in case of burning. A pair of gloves would be better when taking off it.

### 3. Precautions to do before using the device

#### a. Water Quality Guidelines

The Ultraviolet Disinfection System is intended for the use with visually clear water, not colored, cloudy or turbid

- Ambient Water Temperature : 2-45°C
- Iron : < 0.3ppm (0.3mg/L)
- Hardness : < 7gpg (120mg/L)
- Turbidity : < INTU
- Manganese : 0.05ppm (0.05mg/L)
- UV Transmittance : > 75%

b. Recheck the installation before plus the sterilizer into power.

c. Do not proceed to install the equipment when UV Lamp or Sleeve Tube is broken, buy one again and continue.

d. Ultraviolet Disinfection System is designed for continuous operation and frequent switching will reduce Ultraviolet radiation and service life. But, if you do not use the equipment for a long time, you can turn off the power and water supply to save energy.

e. If this unit falls into the water, turn main power off and then retrieve it. Do not attempt to use this sterilizer if it has been submerged.

f. Do not operate this unit if it has damaged cord or plug, if it is malfunctioning or if it has been dropped or been damaged in any manner

g. The UV system should be installed after the filter on the return line

h. Always disconnect the water supply and completely drain the water purifier if it will be subjected to temperatures below freezing for extended periods of time.

### 4. Maintenance

a. Testing monthly or before each use

b. Lamp replacement is recommended every 8000 hours of operation. After 8000 hours, the lamp may still light, but the UV intensity has diminished.

c. Cleaning of the quartz sleeve once 3-6 months with alcohol or a mild detergent.

### 5. Spare parts

6W UV Lamp reference : 959001

SS006 UV lamp sterilizer: 959000

## SSE-006 UV Water Sterilizer operator's manual

### 6. Specifications

Model	SSE-006
Flow rate at 94% UVT	@30mJ/cm2, 0.5GPM at max., @40mJ/cm2, 0.3GPM at max.
SS304 chamber size	260mm length, 50.8mm diameter
Grounding wire	NO
Inlet/outlet port size	1/4" female thread
Voltage	220-240V 50/60Hz
Lamp power	6w
Max. working pressure	8 bar
Ambient water temperature	2-40°C
Visual & audible lamp alarm	YES
Visual power on	YES
Lamp replacement reminder	NO
Lamp working life reminder	NO

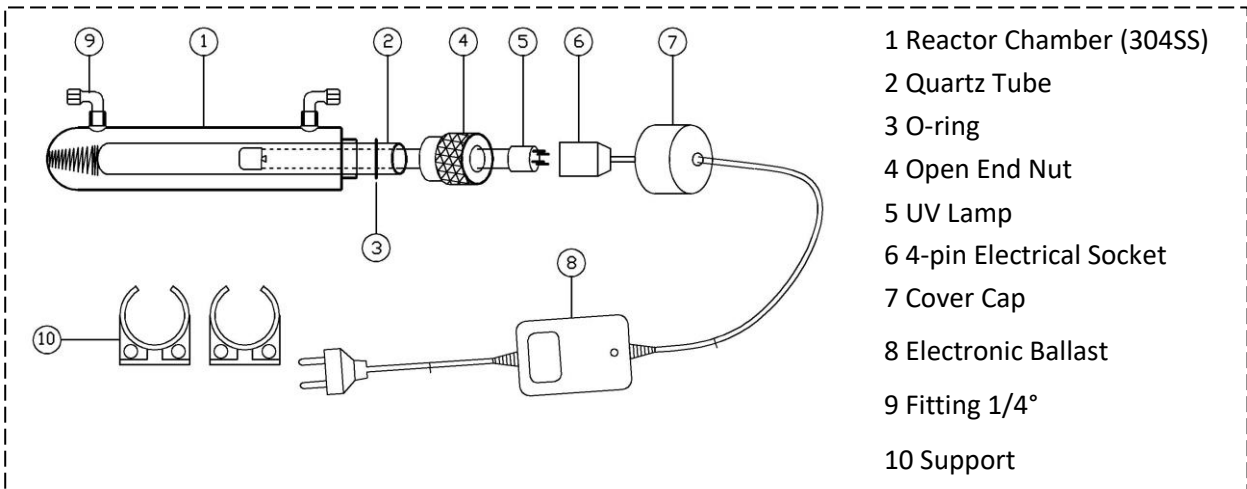
UV LAMP	
Power	6w
Diameter	15mm, T5 type
Installation available length	212mm
Current	0.425A
Voltage	20V
uvc intensity @254nm	22uW/cm2
Working life	8,000 hours

### 7. Content of kit



# SSE-006 UV Water Sterilizer operator's manual

## 8. System Installation



- 1 Reactor Chamber (304SS)
- 2 Quartz Tube
- 3 O-ring
- 4 Open End Nut
- 5 UV Lamp
- 6 4-pin Electrical Socket
- 7 Cover Cap
- 8 Electronic Ballast
- 9 Fitting 1/4°
- 10 Support

**Step 1:** Open package to check all components inside: Reactor Chamber, UV Lamp, Quartz Tube, O-ring, Electronic Ballast and Support.

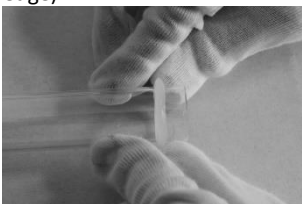


**Step 2:** Make sure the Quartz Tube and UV Lamp are clean before installation (clean with alcohol or mild detergent). Wear soft non-abrasive gloves to keep any finger marks away from them.

**Step 3:** Remove End Nut from Reactor Chamber.



**Step 4:** Install O-ring onto the open end of Quartz Tube (12mm from the edge).



**Step 5:** Insert the Quartz Tube into the Reactor Chamber.



**Step 6:** Hand-screw End Nut on the Reactor Chamber. To protect the O-ring, do not over tighten.



**Step 7:** Connect 4-pin Electrical Socket with UV Lamp pins tightly.



**Step 8:** Carefully insert the UV Lamp into the Quartz Tube through End Nut.



**Step 9:** Install the Cover Cap and hand-tighten onto End Nut.



**Step 10:** Select a readily accessible and well lit location to fix the system. The system should always be located closest to the point of use and can either be installed horizontally or vertically.

- Step 11:** When all plumbing connections are finished, slowly turn on the water supply and check for leaks.
- Step 12:** Allow the water to run for a few minutes to clear any air or dust that may be in the Reactor Chamber.
- Step 13:** Connect the power for starting up.