

Installation and Operation Manual

SLT-Series[™]

Models: UVG SLT12, UVG SLT30, UVG
SLT40, UVG SLT75, UVG SLT80, UVG
SLT125, UVG SLT172



ATTENTION: Please read this manual carefully and follow the instructions.
Installation shall be carried out only by authorised technicians.

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1. INTRODUCTION

UV disinfection is an efficient, low cost and environmentally friendly process. UV light kills pathogenic micro-organisms quickly without leaving any residues, harmful by-products or affecting the smell or taste of the water.

These units use UV lamps which emit UVC radiation at 254nm which disrupts the DNA in the micro-organisms, so they are either killed or their ability to replicate is destroyed.

The kill rate depends on the UV dose received by the micro-organisms, i.e. the time that a micro-organism is exposed to a certain intensity of UV radiation (Wm^2). A UV dose of $400 J/m^2$, is recognized internationally as a suitable dose to ensure safe disinfection of drinking water.

The disinfection performance of a UV system is determined by the intensity of the UV light, water flow rate, the optical transmission of the water at 254nm and the geometry of the reactor. The sizing of the UV system should be based on these parameters. Please contact your UV Guard representative if you have any queries regarding correct sizing.

As there are no disinfection substances added to water by UV radiation, there are no residual effects once the water has passed through the UV Reactor.

Only UV Guard Australia Pty Ltd spare parts should be used to ensure proper operation and performance.

1.1 General Safety Instructions



ELECTRIC SHOCK!

Attention: Dangerous electric voltage is present inside the power supply box and chamber. These instructions must be followed closely to prevent serious personal injuries.



ENSURE EYE PROTECTION IS WORN WHEN SERVICING AND INSTALLING THIS UNIT!

UV-C radiation is harmful to the eyes and skin! UV lamps should be used only when properly installed in the irradiation chamber. The UV lamp must never be operated outside the disinfection chamber.

- Make sure this disinfection unit is only used for the intended purpose as described in the operating instructions.
- This disinfection unit is to be installed properly, according to these operating instructions, before use.
- Do not use a unit with a damaged electrical lead or plug, a unit with any faulty functions, or a unit which has been dropped or has been damaged in some way.
- Make sure that the unit is unplugged when it is not being used, before fitting, or removing any parts, or before cleaning the unit.

- Ensure the disinfection unit is electrically isolated before:
 - Carrying out repairs.
 - Cleaning.
 - Replacement of the UV lamp
- The unit must be depressurized before maintenance.
- Do not use the UV lamp outside of the UV disinfection reactor.

UV Guard UV lamps are designed for permanent operation to reach their best disinfection capacity. Frequent switching on and off reduces the life of the UV lamp!

2. ASSEMBLY AND INSTALLATION

Installation should meet the AS/NZS 3500.1 Plumbing and drainage standards at all times. Installation should be carried out only by qualified technicians.

The Following MUST be Checked Prior to Installation:

- A maximum operating pressure of 800KPa (8 bar or 125 psi) must not be exceeded.
- The maximum ambient temperature is 45°C
- For the SLT12, SLT30, SLT40, SLT75 and SLT80 units, maximum water temperature should not exceed 40°C. The SLT125 and SLT172 units utilise Amalgam UV lamps and can be operated at water temperatures of up to 55°C
- The reactor must be plumbed so it remains full of water at all times while the lamp is operating.
- If the SLT12, SLT30 and SLT40 models are left on during extended periods of no flow, the water in the reactor will begin to get warm. A tap may need to be run for a few seconds until the warm water passes.
- The SLT75, SLT80, SLT125 and SLT172 models will produce higher water and UV reactor temperatures if they are left on during extended periods of no flow. This may damage the UV lamp due to overheating and cause skin burns if the UV reactor is touched. There is also the potential for water burns depending on the vicinity of the system to the water outlet. It is recommended a temperature management valve is installed on the outlet of the reactor of these UV systems. This is to manage the temperature of the UV reactor and water from getting too hot (55 degrees). At 55 degrees the valve will open to purge a small amount of water out of the reactor to either be returned to the source, or dumped to waste. The water flow from this action will cool the reactor and then closes the valve automatically. The warm water is replaced by new cool water.

Recommended systems to use a thermal relief valve are the UVG SLT75, SLT80, SLT125, SLT172. However, thermal relief valves can also be provided for the SLT30 and SLT40 models to prevent warm water reaching the outlet.

Models

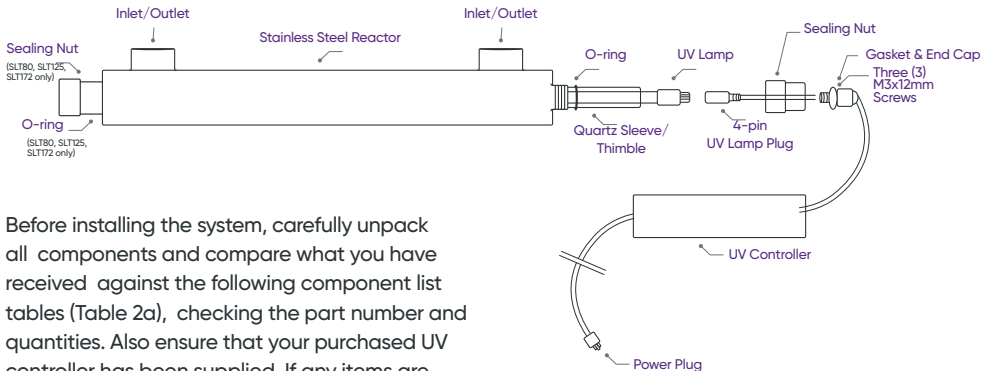
1. The following reactor models are available in the SLT series. (Table 1)

Series	Length	No. Lamps in unit	Diameter mm	Inlet/outlet Ø	Min. space to service reactor at power end of chamber mm
SLT 12	245mm	1	62	¼" BSP Nipples	300
SLT 30	525mm	1	62	¾" BSP Nipples	600
SLT 40	895mm	1	62	1" BSP Nipples	1000
SLT 75	895mm	1	62	1" BSP Nipples	1000
SLT 80	895mm	1	88	2" BSP Nipples	1000 *
SLT 125	895mm	1	88	2" BSP Nipples	1000 *
SLT 172	895mm	1	88	2" BSP Nipples	1000 *

Table 1

*Space is also required at the blank end of the chamber for servicing the quartz thimble for the SLT12, SLT80, SLT 125 and SLT 172 units. A 100 mm space will be sufficient.

System Components



Before installing the system, carefully unpack all components and compare what you have received against the following component list tables (Table 2a), checking the part number and quantities. Also ensure that your purchased UV controller has been supplied. If any items are missing, contact your UV Guard representative.

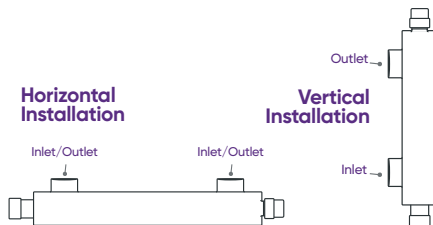
Standard model component list

Model/ Reactor	UV Lamp	Quartz Thimble	Quartz O-Ring	Sealing Nut (power end)	Sealing Nut (blind side)	End Cap Screws
UVG SLT12	11020	20100	31005	32103	32103-B	-
UVG SLT30	11030	20295	31001	32102	-	32105 x 3
UVG SLT40	11040	20310	31001	32102	-	32105 x 3
UVG SLT75	11074	20310	31001	32102	-	32105 x 3
UVG SLT80	11080	20140	31006 x 2	32109	32108	32105 x 3
UVG SLT125	11125	20140	31006 x 2	32109	32108	32105 x 3
UVG SLT172	11172	20140	31006 x 2	32109	32108	32105 x 3

Table 2A

2.1 Installing the Reactor

- Before installation ensure you know which reactor type you are using.
- Make sure that there is enough free space to service the glassware with the reactor (see Table 1). Otherwise it will not be possible to install the UV lamp and maintain the UV system.
- The reactor is to be fixed by means of the mounting legs, either on the wall or on a mounting frame.
- The disinfection chamber comes complete with it's own wall mounting brackets
- The preferred orientation for the reactor is horizontal, however vertical orientation is acceptable. The in-outlet ports should be pointing up for horizontal installations, or the outlet should be the top port in vertical installations, to prevent airlocks.



U Configuration

Outlet points should be facing upwards in horizontal installations, or the outlet should be the top port in vertical installations to prevent airlocks.

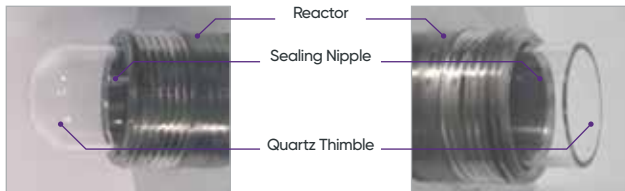
- Refer to Table 1 for the distance from the sealing nut, required for servicing the unit.
- When mounting the chamber, consideration must be made for the weight of the system due to the stresses associated with pipe work etc.
- The stainless steel chamber and surrounding pipe-work must be properly earthed to prevent electrolysis/corrosion.

2.2 Quartz Thimble/Sleeve and UV Lamp Installation

DUE TO THE FRAGILE NATURE OF THE QUARTZ, CARE MUST BE TAKEN WHEN HANDLING AND INSTALLING THE QUARTZ THIMBLE and UV LAMP.

Cotton or powder free nitrile gloves should be worn whenever handling the UV lamp or quartz in order to prevent finger print marking, which will detrimentally impact UV intensity.

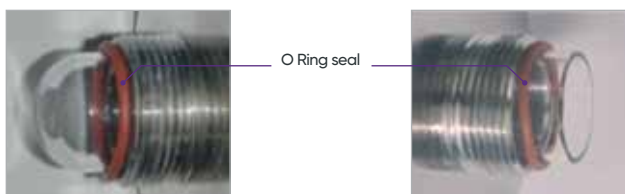
- Remove the sealing nut(s) from the reactor and ensure the O ring seal is removed as well. For the UVG SLT12, SLT80, SLT125 and SLT172 units remove the blind sealing nut from the blind end of the chamber as well.
- Take the quartz thimble and wipe it down with the alcohol wipe provided to remove any grease and finger marks, then dry it. Insert the domed end of the quartz thimble into the chamber and locate the thimble in its support spring at the far end of the chamber. Failure to locate the domed end of the quartz thimble into the support spring may result in water leakage or quartz thimble breakage. For the double ended SLT12, SLT80, SLT125 and SLT172 position the quartz thimble so there is equal amounts of quartz sticking out of each end of the chamber.



For SLT12, SLT80, SLT125 and SLT172 double ended chambers, the quartz needs to be centered so there is an equal amount at each end.

For single ended chambers the quartz needs to be located so there is a maximum of 14mm protruding from the end of the chamber when the support spring is fully compressed.

- Apply a generous amount of food grade O ring lubricant to the O ring. This is provided with all new UV Guard systems. If you are servicing an older system, contact UV Guard for more O ring lubricant as this **MUST** be applied.
- Place an O ring over the quartz so the O ring is positioned against the chamber on the sealing nipple. For the double ended SLT12, SLT80, SLT125 and SLT172 there is an O ring at each end of the chamber.

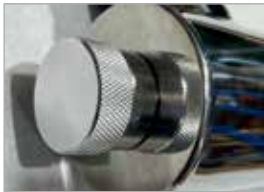


For SLT12, SLT80, SLT125 and SLT172 double ended chambers, an O ring needs to be placed over each end of the quartz.

For single/double ended chambers an O ring needs to be placed around the quartz so it is against the chamber on the sealing nipple.

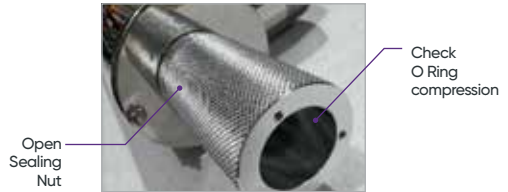
- For double ended chambers the blind sealing nut needs to be screwed on the chamber over the domed end of the thimble. The open sealing nut needs to be screwed on to the chamber over the open end of the quartz thimble. The sealing nuts should be tightened to firm hand tightness. They should not be tightened with a mechanical aid such as multi-grips. Look through the sealing nut to check the O ring is compressed on to the quartz thimble.

BLIND SEALING NUT



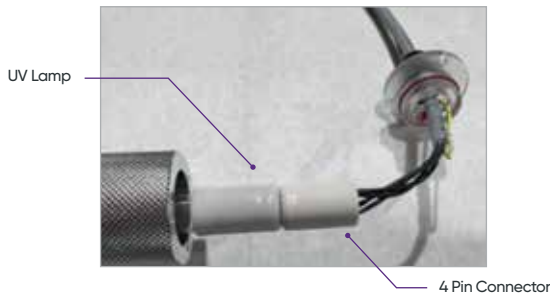
For SLT12, SLT80, SLT125 and SLT172 double ended chambers, blind sealing nut needs to be screwed on over the domed end of the quartz.

CHECK COMPRESSION OF O RING



For single/double ended chambers the open sealing nut needs to be screwed on over the open end of the quartz thimble.

- DO NOT INSTALL UV LAMP YET.** The UV reactor quartz thimble O ring seal/s now need to be checked. Allow water to enter the UV reactor until operating pressure is reached. Leave the UV reactor full of water at operating pressure for a minimum of 15 minutes. Using a torch, inspect the O ring seal/s and check for water leaks. If a leak occurs, gently tighten the sealing nut/s until the leak stops.
- Remove the UV lamp from its protective wrapping and wipe down with an alcohol wipe or cloth soaked in methylated spirits. Do not touch it without protective gloves, care should be taken not to leave markings of any nature on the UV lamp, as this could have a detrimental effect on the performance of the UV lamp. Allow alcohol or methylated spirits to dry.
- Insert the UV lamp into the quartz thimble through the hole through the centre of the sealing nut. If the reactor is installed vertically, NEVER drop the lamp into the quartz thimble, as this may break the quartz thimble.
- Using a soft cloth, or wearing gloves to hold the UV lamp, push the female 4 pin connector firmly on to the lamp pins.



- Locate the three holes in the end cap with the three holes on the end of the sealing nut. For the SLT12, secure the plastic cap over the sealing nut and tighten the screw located on the outside of the cap to lock into position. Screw all three screws (M3) through the holes in the end cap, into the sealing nut.



Sealing Nut complete with UV Lamp installed and cable secured

- Secure earth lug on the designated earth point.



Earth Point

- Insert the power lead into the outlet then turn power on. The UV lamp will ignite and come on, however it will take between 2 and 5 minutes for the lamp to reach full output.

2.3 Power Supply Box Installation

The power supply box must be mounted clear of the floor as a precaution against the ingress of water.

- The power supply box is not designed for remote mounting. Recommended maximum distance of chamber to power supply box is two (2) metres.
- UV Guard have indoor and weatherproof controllers. Identify your controller using the part numbers in the following table to check installation details

For details of how to operate the digital power supply boxes, including how to calibrate the UV intensity of a new UV lamp see *Section 3 – Servicing and Operating*.

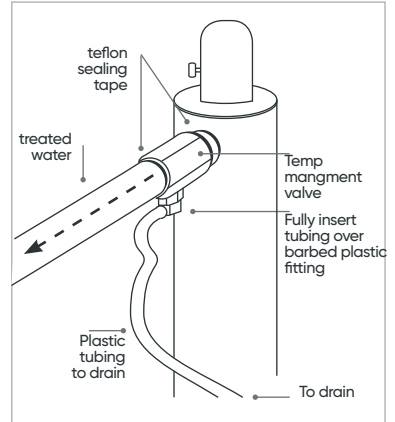
Power Supply


Part Number	Units Used	Installation Details
40044 40089	SLT2 SLT30 SLT40 SLT75 SLT80	Must be installed undercover
40050 40090 40185 40172	SLT2 SLT30 SLT40 SLT75 SLT80 SLT125 SLT172	
40051 40091	SLT2 SLT30 SLT40 SLT75 SLT80	Can be installed in weather away from direct sunlight
50044-N 50081-N 50185-N 50172-N	SLT2 SLT30 SLT40 SLT75 SLT80 SLT125 SLT172	

2.4 Basic Thermal Relief Valve Installation (Option)

This fully automatic valve is installed on the outlet port of the UV reactor and will discharge a small amount of water to drain or back to a storage tank when the system reaches 55°C. This valve will suit applications where there are extended periods of no flow, to safeguard the UV system from over-heating, ensuring optimum UV output is maintained and preventing UV lamp damage.

- Install the basic thermal relief valve directly onto the outlet port of the UV Reactor using teflon sealing tape to seal the threads. The red barbed plastic fitting must be pointing down **below** the level of the outlet to ensure that air is not trapped in the valve.
- Connect the outlet piping to the output of basic thermal relief valve using teflon sealing tape to seal the threads.
- Connect the clear plastic tubing supplied to the red barbed plastic fitting on the basic thermal relief valve.
- Secure the other end of the plastic tubing to a suitable drain or feed back to storage tank.



3. SERVICING AND OPERATING

It is vital that only UV Guard spare parts are used in your UV disinfection system. This is to ensure that the correct level of treatment is being applied to the water. Using non UV Guard spare parts may result in an un-safe level of water treatment and may cause operational problems such as leaks.

DUE TO THE FRAGILE NATURE OF QUARTZ, CARE MUST BE TAKEN WHEN HANDLING AND INSTALLING THE QUARTZ THIMBLE and UV LAMP.

Cotton or powder free nitrile gloves should be worn whenever handling the UV lamp or quartz in order to prevent finger print marking, which will detrimentally impact UV intensity.

The servicing of this UV reactor should only be carried out by a qualified service technician. Failure to do so will result in the warranty being void. Warranty is also voided should non UV Guard spare parts be used.

3.1 Servicing Intervals

Refer to the below routine servicing interval table. It is vital that these actions are performed at the designated periods to ensure your UV system is disinfecting sufficiently.

Spare part	Action	Interval
UV lamp	Replaced	12 months or 9,000 hours
Quartz thimble	Cleaned	*12 months - minimum
	Replaced	24 months
O ring	Replaced	12 months

*It is recommended that a required quartz thimble cleaning interval is established as each installation is different, especially when treating rainwater. This is done by checking the condition of the quartz thimble at regular intervals until it is dirty and needs to be cleaned. The time it takes for the quartz thimble to become dirty should then be the cleaning interval in the future.

3.2 Servicing the Quartz Thimble

- Switch off main power supply to the UV disinfection reactor.
- Isolate the water supply to the UV reactor. Release pressure and drain water within the reactor.
- For the SLT12, unscrew the securing screw at the side of the plastic cap. For all other models, remove the three screws that secure the electrical cap to the sealing nut. Slide the lamp out enough to be able to remove the four pin plug.
- Disconnect the four pin plug from the end of the UV lamp. Remove the UV lamp from the reactor and place in a safe place.
- Unscrew the sealing nut in an anti-clockwise direction and carefully remove it from reactor. Take care with single ended chambers with spring quartz support, as the spring will suddenly push the quartz out of the chamber when the sealing nut becomes disengaged from the thread on the chamber. Take care to hold on to the quartz thimble as it may come out of the reactor at the same time. Remove the sealing nut from the quartz thimble and store in a safe place. You can then remove the quartz thimble from the reactor.
- If the thimble is due for a clean, wipe it down with a cleansing cream or similar and then wash down with water. It may be necessary to scrape off the remnants of the old O ring with a sharp knife. Repeat this step until the quartz thimble is clean, then wipe down the quartz thimble with a alcohol wipe or soft cloth/ tissue that has been soaked in methylated spirits, then dry it. (take care not to leave any marks on the quartz). If the quartz thimble is dirty to the point of it not being able to be cleaned, replace it.
- Re-assemble the reactor as described in the 'assembly' section.

3.3 Servicing the UV Lamp

- Switch off the mains power to the UV disinfection unit. The lamp may be hot so allow 10 minutes for the lamp to cool down before handling it.
- Remove the three screws that hold the end cap in place on the end of the sealing nut. The UV lamp will be attached to the lead that goes through the end cap.
- Slide the UV lamp out just enough so that you are able to get a firm hold on it, you will then be able to remove the four pin plug that is connected to the end of the UV lamp.
- After the four pin plug has been removed, you can then remove the UV lamp from the reactor.
- Reinstall UV lamp as described in the 'assembly' section.

3.4 Servicing and Operating UV Controllers

3.4.1 40044 and 40089 Controllers

The 40044 and 40089 controllers are for indoor use only (require shelter). They have lamp on/off LEDs and a lamp fail audible alarm.

Under normal operation, the green LED will be on.

When there is a fault with the UV lamp the red LED will be on and the controller will sound an alarm. If no LEDs are on but there is power to the controller, the controller may be faulty and will need to be replaced.



3.4.1 40051 and 40091 Controllers

The 40051 and 40091 controllers are designed to be installed in the weather but away from direct sunlight. They have lamp on/off LEDs.

Under normal operation, the green LED will be on. When there is a fault with the UV lamp or controller the red LED will be on.

If no LEDs are on but there is power to the controller, the controller may be faulty and will need to be replaced.



3.4.3 40050, 40090, 40185 and 40173 Controllers

1. Normal Operation:-

When the 40050 or the 40090 power supplies are properly installed, connected to a UV lamp, switched on and operating normally, the red digital screen will initially display '365' indicating 365 days of rated lamp life remaining. The green LED will also be illuminated indicating the UV lamp is operating. The red digital display will decrease each day until the screen reaches '0' and the end of lamp life alarm is activated.



2. Display Options:-

There is a single "S" button operation for viewing options and re-setting the unit. Under normal operating conditions the screen can display lamp life left in days (365 → 0 days) or ballast operating time in days (0 → 9999 days). The default display is the remaining lamp life in days (365 → 0 days). To view ballast operating time, press the "S" button for less than 2 seconds. The LED display will show ballast operating time (0 → 9999 days) for 10 seconds then return to displaying the remaining lamp life (365 → 0 days). Pressing the "S" button while the ballast operating time is displayed will return the display immediately to the remaining lamp life before reaching the end of 10 seconds.

3. Lamp Failure:-

If the UV lamp fails the buzzer will sound on and off at 1 second intervals, the red LED will be illuminated and the remaining lamp life will stop counting down. These features will remain until the lamp is replaced and the ballast re-set. The ballast operating days will continue to count up while there is power to the ballast.

4. End Of Lamp Life Alarm:-

When lamp life reaches 0 the display will show "A3", the red LED will flash and the buzzer will sound on for 1 second and off for 5 seconds.

5. Deferring End Of Lamp Life Alarm:-

The end of lamp life alarm can be deferred four times for a period of 7 days, to allow time to order and replace the old lamp with a new lamp. To defer the alarm, press and hold the "S" button for 5 seconds until the screen displays "dELy" then release the button and the lamp life will be re-set to 7 days and there will be no audible alarm but the Red Light will be flashing and the "A3" will be displayed. The ballast will count down from 7 to 0 days and the alarm buzzer will start again. This deferring of the end of lamp life alarm can be done 4 times. After the fourth time the buzzer cannot be stopped until the lamp is replaced and the lamp life re-set.

6. Lamp Life Re-setting:-

When a new lamp is installed in the UV unit the ballast should be re-set to indicate 365 days lamp life remaining. To do this the "S" button should be pressed and held for 10 seconds, when the display will show "rSEt". Keep pressing for at least another 4 seconds after the LED digits go to 365 and the buzzer sounds once, then release the "S" button and the ballast will be re-set and operating normally. So in total the "S" button needs to be held down for at least 14 seconds to re-set the lamp life.

7. Ballast Failure:-

If there is power to the ballast but there is no digital display and neither of the LEDs are illuminated then the ballast has failed and needs to be replaced.

3.4.4 UVG Weatherproof Controllers

The UVG Weatherproof PLC display provides the user with a series of screens which provide information on the status of the UV unit as well as fault warnings and actions.



3.4.4.1- System Start Up

When the power is first switched on, the HOME screen will be displayed. The HOME screen shows the lamp life count down timer and UVi % value (if the UV intensity monitoring option has been provided). The UVi monitoring system needs to be calibrated as described in **section 3.6.5.2**).

3.4.4.2 – Lamp Timers Reset

- When the lamp has been fitted and sealing nut cap mounted, turn on power to the UV unit.
- As soon as the controller displays the HOME screen showing the count down timer, press Mode. This will access the SERVICE menu. Please note, if the UV system is already in alarm, the Enter button will need to be pressed prior to the Mode button being pressed to access the SERVICE menu
- Press Down until “New Lamp Fitted” is displayed. If you pass this option, press Up until it can be seen again.
- Press Enter to reset the lamp timers.
- If the “New Lamp Fitted” option is not seen, turn off power, wait 10 seconds and turn power on again. Then repeat the above steps.

3.4.4.3 – Status Screens

During the operation of the system, a number of parameters are logged. These logs can be seen in the STATUS screens, which can be accessed by the below steps:

- From HOME screen, **press Mode**.
- **Press Up or Down** to scroll through the STATUS screens. These are summarised in the following table.

STATUS Screen	Description
Lamp Operating	Total number of hours the current lamp has been operating for.
Lamp Errors	Total count of faults recorded by the unit across all lamp replacements.
Lamp Replaced	Number of times a UV lamp has been replaced.
Total On Time	Total operating time of UV unit across all lamp replacements.
Lamp Restarts	Total number of lamp restarts for the current lamp.

3.4.4.4 – System Faults/Alerts and Troubleshooting

When the system encounters a fault it will sound an audible alarm and the “Lamp Fail” LED will flash. The below table shows the FAULT screens and how they should be managed.

FAULT/ALERT Screen	Description/Action
Near end of life	Total number of hours the current lamp has been operating for.
Mute the Alarm?	Alarm initiated when UV lamp is nearing its end of life. Press ENTER and the alarm will be muted for 24 hours. Make arrangements to install a new UV lamp to ensure sufficient disinfection. Contact your UV Guard distributor.
End of life	Number of times a UV lamp has been replaced.
Mute the Alarm?	Alarm initiated when UV lamp has reached its end of life. Press ENTER and the alarm will be muted for 24 hours. Make arrangements to install a new UV lamp to ensure sufficient disinfection. Contact your UV Guard distributor.
Low UVi	Total number of lamp restarts for the current lamp.
Mute the Alarm?	Alarm initiated when UVi is less than 60% (or a different pre-defined value). Press ENTER and the alarm will be muted for 24 hours. Check and clean quartz sleeve and UVi lens. Check UV lamp life and if there is a water deterioration problem. If low UVi problems persist, contact your UV Guard distributor.
UV System is OFF	Initiated if there is a remote enable option with setting to remotely turn off the system.
SAFETY INTERLOCK	If the system has a lamp safety interlock system, this will be displayed in the event of lamp interlock initialisation.
OVER TEMPERATURE	If the system has the thermal management option with auto shut-down, this message will be shown when the system has been turned off due to over temperature. Ensure there is flow in the system. If there is and the system is still shutting down, contact your UV Guard distributor.
Service Required	Alarm initiated when lamps or ballast has stopped working. Contact your UV Guard distributor.

4. SPARE PARTS LIST WITH CORRESPONDING PART NUMBERS

Model/Reactor	UV Lamp	Quartz Thimble	Quartz O-Ring	Compression Ring	Sealing Nut (power end)	Sealing Nut (blind side)	End Cap Screws
UVG SLT12	11020	20100	31005	-	32103	32103-B	-
UVG SLT30	11030	20295	31001	-	32102	-	32105 x 3
UVG SLT40	11040	20310	31001	-	32102	-	32105 x 3
UVG SLT75	11074	20310	31001	-	32102	-	32105 x 3
UVG SLT80	11080	20140	31006 x 2	-	32109	32108	32105 x 3
UVG SLT125	11125	20140	31006 x 2	-	32109	32108	32105 x 3
UVG SLT172	11172	20140	31006 x 2	-	32109	32108	32105 x 3

Table 2

Warranty Information

UV GUARD'S PRODUCTS AND THE AUSTRALIAN CONSUMER LAW

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. The benefits provided to you by this warranty are in addition to other rights and remedies available to you under the law.

TWO YEAR GUARANTEE FOR THE REACTOR

UV Guard will grant a two (2) year guarantee from the date of purchase for this Stainless

Steel Reactor. Faults regarding the material and workmanship of this reactor will be rectified free of charge within the warranty period. The warranty does not cover instances where the system is subjected to corrosive chemicals or materials. This warranty does not cover installations where salt water or water with chloride levels greater than 250ppm and greater than 25°C passes through the reactor. This warranty does not cover damage to threads as a result of mishandling.

ONE YEAR GUARANTEE FOR POWER SUPPLY, QUARTZ THIMBLE/SLEEVE, AND UV CONTROLLERS

UV Guard will grant a one (1) year guarantee from the date of purchase for the Power Supply, Quartz Thimble/Sleeve, and UV Controllers.

ONE YEAR GUARANTEE FOR POWER SUPPLY, QUARTZ THIMBLE/SLEEVE, AND UV CONTROLLERS

UV Guard will grant a one (1) year guarantee from the date of purchase, if the UV lamp fails due to faults regarding material and workmanship. This warranty will be voided if the unit is switched on and off more than four times in a 24 hour period.

PLEASE NOTE: As soon as you detect a defect or fault, you are to immediately cease using the product and lodge a warranty claim with details of the defect to UV Guard by email to the email address stated below. Once UV Guard has assessed your claim and confirmed that the warranty applies, UV Guard will determine whether it will replace the product, repair the product, or reimburse you the amount to replace or repair the product. You must return any faulty products to UV Guard's Head Office at your own cost, unless otherwise agreed by UV Guard. All warranties provided by UV Guard will be invalidated by, and UV Guard will not be responsible to any damage or defect to the products caused in connection with: your failure to install, handle, use, maintain, operate, service, and replace the products in accordance with the relevant instructions and directions contained in this Manual, UV Guard's Terms and Conditions, any applicable law, the direction of any applicable authority (as defined in UV Guard's Terms and Conditions), or otherwise with UV Guard's instructions; the opening or breaking of the manufacturers seal, the electrical equipment (which is designed and manufactured to the specifications of the order), or any additional changes not approved by UV Guard; and the installation and/or commissioning of the products by any individual not authorised by UV Guard.



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