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Technical Overview

I. Important Notes

For correct operation of this appliance, it is essential to observe the manufacturer's instructions. This system is designed for permanent fixed installation as a POE or POU treatment system. Installation must be carried out by a qualified plumber or authorised technician to comply with Australian Plumbing Codes. **This system contains electrical components and plumbing components; Use caution and if leaking occurs, turn the power off immediately before conducting maintenance or repair to the system.**

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.

II. Specifications

Part Number	GT7-2K	GT7-4K	GT7-8K	GT7-16K
Flow Rate @ 30mJ/cm ²	3.8L/Min	30L/Min	50L/Min	105L/Min
Voltage	230V – 240V			
Chamber	304SS	316SS		
Max Pressure	700 kPa			
Working Pressure	500 kPa			
Lamp Power	14W	20W	40W	87W

III. WARNING

This appliance must be installed into **a single socket surge protector directly**, before being connected to a 240V 10A GPO. It must be a surge protector; Circuit Breakers and RCD's are not suitable substitutes as they do not protect the unit from power surges.

Danger: Dangerous electrical voltage is present inside the power supply box & chamber. These instructions must be followed closely to prevent serious personal injury. Ensure Eye protection is worn when servicing and installing this unit to protect from harmful UV-C Radiation. This radiation can be harmful to eyes and skin, UV lamps should only be used when properly installed in the irradiation chamber. The UV lamp must not be operated outside the chamber.

- This unit must be used only for its intended purpose as described by the manufacturer.
- This unit must be installed in accordance with this manual
- The unit must be unplugged when; The unit is not in use, before fitting or removing any parts.
 - The unit must be electrically isolated before; Maintenance, Cleaning or Lamp Replacement
- The System will need to be de-pressurised before maintenance
- The UV lamp is designed for continuous usage to reach full disinfection capacity. Frequently turning the system on/off will cause the lamp to reduce in effectiveness and may cause the lamp to fail.

Overheating: For long periods of no flow through a UV system it is required to fit a Thermal Relief Valve (TRV) which can be purchased separately. Excessive build up of temperature in the chamber may cause the O-ring to deform and fail causing leakage which can come into contact with the lamp/power supply causing damage or personal injury. Installing a UV system without a TRV may void warranty – check the Warranty details for further clarification.

IV. Before you Purchase/Open

The system requires specific working conditions to be met before installation, some general guidelines* are listed below. If these conditions are not met, the system may not be suitable for the application and may not function as specified.

These systems are designed for sanitising water supplies including mains water, tank water and in some cases bore water and other water supplies. UV dosage ratings are based on UVT 94% and pre-filtered to

5uM. For applications on any water supply other than rain water tanks and mains water, please contact the manufacturer to determine the correct system.

Feed Water Conditions *Guideline Only*	Min	Max
Inlet Pressure	100 kPa	500 kPa
TDS	0 mg/L	2,000 mg/L
Iron	0 mg/L	0.02 mg/L
Manganese	0 mg/L	0.01 mg/L
Hardness	0 mg/L	150 mg/L

V. Space Requirements

The Ultraviolet systems are not IP rated, therefore are not suitable for external installation without adequate weatherproofing or cover from the elements including but not limited to Rain/Moisture/High Humidity & Frost. For external installations, the ballast must be installed in an IP 65 or better waterproof enclosure (not supplied) OR installed in a suitable location not exposed to the previously mentioned elements.

The System is supplied with either plastic (GT7-2K) or Aluminium mounting clamps designed for installation on the wall (screws not included). It is ideal for the system to be mounted horizontally however if necessary, vertical installation (open end to the top) is acceptable, the outlet should also be at the top.

The chamber must be mounted so that the chamber remains full of water at all times. The ports should be facing up for a horizontal installation so that the air can escape from the chamber. You must allow enough space to perform maintenance on the system. Allow 2x the length of the chamber at the open end to allow the UV lamp & Thimble to be installed/removed. When mounting the chamber, consideration must be made for the weight of the system full of water due to the stresses associated with the plumbing fixings. The stainless-steel chamber and surrounding plumbing must be earthed to prevent electrolysis causing corrosion.

VI. What is Ultraviolet Sanitation

Ultraviolet sanitation works by breaking down the cell wall of a micro-organism allowing oxidation to occur which in turn prevents the bacteria from multiplying until it is finally eradicated. Ultraviolet filtration is a chemical free solution to water sanitation creating no by products in the water.

Ultraviolet systems are rated based on a dosage level of radiation into the water (mJ/cm²) with 30mJ being the standard level of disinfection and up to 40mJ for Australian Drinking Water Guidelines.

For drinking water and domestic water use, a UV system should always be installed as the last point of contact. For example, on a whole house filtration system, the filters should be installed before the UV system. This effectively eliminates (or significantly reduces) the chances of re-contamination after the UV unit.

VII. Example Applications

UV systems are utilised in many different ways. The main applications are; **Household Water Filtration, Commercial Water Treatment & Bacterial Pre-Treatment.**

Household Water Filtration generally comes in 2 forms; Undersink Point of Use filtration or Whole House Point of Entry filtration. Both applications are set up the same, with a pre filter followed by the UV system as a final point of contact.

Commercial Water Treatment is common due to council regulations governing the supply of water or food to the public. The law requires a form of sanitation in the filtration process and this is usually done in the form of UV, RO or UF filtration.

Bacterial Pre-Treatment is sometimes required as a pre-treatment stage for ultra-fine (UF) or Reverse Osmosis (RO) systems to prevent possible bio-fouling. UV can treat higher levels of bacteria to reduce the chance of this occurring.

Installation Introduction

I. Site Preparation

When a suitable installation location is identified, you will need to determine if the system will be mounted horizontally as recommended, or vertically if necessary (If mounting vertically, the outlet will need to be at the top and a TRV is required). Allow adequate space for the ongoing maintenance and pre-plan the plumbing so that the ports will be facing up.

II. Mounting

When mounting the system on a wall, mark out the approx. location of each wall bracket. Fix a bracket to the wall and using a level and ruler, mark out the appropriate location for the second bracket. Brackets should ideally have the pivot/hinge at the bottom and screw to close the bracket at the top. Hold the Chamber in firmly to the brackets and they do up one of the clamps to secure the system. A second set of hands can assist to make this easier.

III. Installing Connections

The UV systems are manufactured with male BSP threads either in 1" (GT7-8K/16K) or ½" (GT7-4K). The smaller GT7-2K unit is ¼" Female. Use appropriate plumbing fittings to install onto the chamber for adapting to your plumbing.

IV. Thermal Relief Valve

A Thermal Relief Valve is a valve with a build in sensor that will open and drain water once the temperature in the chamber reaches 56°C.

A Thermal Relief Valve is also recommended on installations where there can be prolonged periods of time without water flow. Generally lower wattage systems (<40W) do not reach extreme temperatures under normal conditions however it is best to install a TRV to limit the temperature.

When installing a TRV below are the requirements:

- The TRV must be installed on the Outlet of the UV System (which should be the open end).
- The TRV tube must be allowed to drain freely without head pressure (don't run the tubing vertically)
- The TRV operates from temperature so always have the ports facing up (heat rises)
- When vertical system installation is required, make sure the valve itself is also facing up.

The valve will open at 56°C and Close at ~ 54 – 55°C, if you have a pump without a bladder and a very sensitive high/low pressure switch, you may notice the pump cycling as the valve activates/deactivates during prolonged periods without flow.

V. Filter Protection

As per Australian Plumbing Codes, a pressure limiting valve should be installed to limit the pressure to 500 kPa when the feed pressure exceeds 500 kPa. If Water Hammer is present, install a suitable Water Hammer Arresting device.

Commissioning & Start-up

I. Quartz Thimble Installation

Due to the fragile nature of the quartz, care must be taken when handling and installing the thimble and lamp. The below steps are for horizontal installations.

1. Remove the knurled nut from the end of the SS chamber.
2. Wearing clean gloves or handling using a micro-fibre cloth, remove the thimble from the packaging and check for any marks or blemishes. Insert the glass thimble into the chamber at the open end. The thimble will need to go into the chamber by the domed end first. At the rounded end of the UV SS chamber, you will find a locating port to accommodate the dome end of the quartz tube (On the GT7-8K System this will be a spring). Carefully push the quartz into this port so the lamp is seated.



3. Place the o-ring over the exposed end of the glass thimble and seat the o-ring firmly against the thread **as shown beside.**
4. When the o-ring is seated, install the knurled nut onto the chamber to seal the o-ring against the sealing nut. NOTE: Firmly hand tightening is sufficient to seal these chambers without the use of tools – Do NOT apply thread tape or sealant glue to the end threads.
Caution: Overtightening the end nuts may cause the glassware to crack.
5. You can look through the open end of the nut to see if the o-ring is seated correctly. There will likely be a slight gap between the end edge of the thimble and the recessed stop end of the knurled nut, this is normal in most cases (For the 2K, 4K, Systems). On the larger GT7-8K system, the spring holds the quartz under tension so there will not likely be a gap once firmly tightened.

From this point, the water supply should be turned on to pressurise the chamber and identify if there are any leaks from the plumbing connections or from the thimble. If leaking occurs from the thimble, it is possible that it may only be a slow beading leak which will need to be rectified before installing the lamp.

For vertical installations, it is extremely important that there are no slow leaks as over time these will fill up the thimble with water and cause a short in the lamp which can result in injury or damage to the lamp & ballast which is not covered under warranty.

If any water is present on the thimble or chamber from the installation process, it will need to be thoroughly dried before continuing with the installation.

II. Ballast Operation

GT7-8K-PS – The 10W – 40W ballast is straight forward for operation. It features a lamp status & failure indicator light along with an audible alarm should there be a fault. The ballast will automatically reset when turned on/off.

GT7-16K-PS - In order to guarantee user safety, this ballast features complete control and protection functions which are caused by;

1. UV Lamp exceeding life cycle (365 Days)
2. UV Lamp Failure
3. Working beyond rated voltage and load

This ballast is designed to work with germicidal UV lamps. Do not mistake the input/output wire to avoid ballast failure.

- Ensure the voltage is within the specification of the ballast.
- Match the UV lamp with the power output of the ballast.
- Ensure the connections (plugs) are fitted correctly – The earth wire must be affixed securely.

Working Condition: Green LED light of ballast ON, No Red LED, Digital Display indicating # of Days

Fault: Red LED on / Flashing, Audible alarm

Working Timer Function: The First timer indicates number of operating days from 0 to 9999, the Second timer indicates UV lamp working life which is a countdown from 365 days to 0. The UV lamp working life is set by default but you can switch between these indicators by pressing and holding the “SELECT” button for 2 Seconds (Repeat this to return to Default).

UV Lamp Replacement Alarm: Once the UV lamp working day timer reaches 0, digital display will show “A3”, The Red LED light will flash and there will be an audible alarm to remind you to change to a new lamp.

Ballast Reset: When the lamp has been changes, press and hold the “SELECT” button for 10 seconds until the display shows “RSET” – Continue holding for a further 5 seconds until the display shows “0365” and you will hear an audible beep. Release the button and the timer is successfully reset.

III. Installing the UV Lamp

When, and only when the chamber and thimble are deemed to be water tight and free from leaking can the lamp be installed. Handle the lamp only by the plastic end caps and support it by both ends.

1. Remove the lamp from its protective wrapping

2. Before the lamp is installed, the chamber and surrounding plumbing must be free from water or leaks.
3. Insert the UV lamp into the quartz thimble through the open end. Leave the 4 pins of the lamp exposed to allow connection to the ballast.
 - a. For vertical installation, you will need to connect the power supply first before lowering the tube into the chamber. Do NOT drop the tube as this will cause the thimble to crack.
4. Firmly holding the white cap of the UV lamp, and the Black connection of the Ballast, push the power supply connection onto the UV lamp pins, there is a long and short side of the pins so they will only go into the power supply 1 way. Ensure that this is connected firmly so there is a good connection.
 - a. At this point the lamp should be tested briefly to ensure it is in working order and the connection is sound.
 - b. Keep your hands clear of the system and turn on the power for 5 seconds to allow the lamp to fire. Do not look directly at the lamp without eye protection.
 - c. Confirm that the lamp lights up correctly, and the ballast is showing a green light to signify that the lamp is running correctly.



- d. Turn off the power.
5. Slide the lamp the remaining way into the chamber, pushing the rubber sleeve over the knurled nut.

NOTE: The rubber sleeve is not a waterproof seal and is not designed to seal the water in the chamber, it is only to hold the lamp in place and protect from slight splashing water – this does not make the chamber IP rated as waterproof.
6. Connect the earth wire to the lug on the bottom of the UV chamber as shown above.
7. Plug the ballast into a certified single socket surge protector, then into a 240V 10A GPO
8. Turn on the power supply to start the lamp.
 - a. If there is a green light, everything is running correctly
 - b. If there is a red flashing light with an audible alarm sounding, the ballast is indicating that there is a problem with the lamp. This may be due to a faulty lamp, or the connection was not sound during installation. Or there may possibly be a water leak that is shorting out the lamp.
 - c. Fix the issue if possible or contact the supplier for further information.

Maintenance

I. Replacement Parts

Ultraviolet Lamps have an effective lifespan of 9000 Hours (12 Months). They are designed for continuous run, not for intermittent operation.

Lamp Replacement | Every 12 Months

GT7-2K-Lamp	14W Replacement UV Lamp Suit GT7-2K
GT7-4K-Lamp	20W Replacement UV Lamp Suit GT7-4K
GT7-8K-Lamp	40W Replacement UV Lamp Suit GT7-8K
GT7-16K-Lamp	87W HO Replacement UV Lamp Suit GT7-16K

Quartz Thimble Replacement | Every 1 – 2 years depending on water quality

GT7-2K-Thimble	331mm x 23mm OD Single Open-End Thimble Suit GT7-2K
GT7-4K-Thimble	490mm x 23mm OD Single Open-End Thimble Suit GT7-4K

GT7-8K-Thimble 895mm x 24.5mm OD Single Open-End Thimble Suit GT7-8K
 GT7-16K-Thimble 895mm x 23mm OD Single Open-End Thimble Suit GT7-16K

O-rings | Every 1 – 2 Years, must be changed if installing a new quartz

GT7-2NSF-OR O-Ring Suit 23mm Thimble (GT7-2K + GT7-4K + GT7-16K)
 GT7-8NSF-OR O-Ring Suit 24.5mm Thimble (GT7-8K)

Replacement Ballast | Replace after 5 years as a precaution

GT7-8K-PS 10W – 40W AU Certified (RCM) Ballast to Suit 4 Pin Lamps
 GT7-16K-PS 33W – 120W AU Certified (RCM) Ballast to Suit 4 Pin Lamps

Mounting Clamps

GT11-8G 1 pc Plastic Mounting Clamp Suitable for U/Sink Installation.
 GT7-8-BRK 1 Pair Aluminium Mounting Brackets Suit GT7-4K GT7-8K GT7-16K

Thermal Relief Valves

GT7-53 ¾" F-F BSP Thermal Relief Valve – 316SS + 2m Drain Tubing
 GT7-51 1" F-F BSP Thermal Relief Valve – 316SS + 2m Drain Tubing
 GT7-52 2" F-F BSP Thermal Relief Valve – 316SS + 2m Drain Tubing

Troubleshooting

Problem	Possible Cause(s)	Solution
Leaking from Chamber	1. O-rings Not Seated 2. Knurled Nut too Loose 3. Damaged Thimble	1. If there is any issue with the o-ring in the way they are seated this will need to be fixed. Remove the thimble and repeat steps 3 – 5 2. If the nut is not tight enough, the o-rings will not have good enough compression and will cause a leak. Slightly tighten up the nut until a watertight seal is achieved. It is better to tighten slightly at a time to prevent overtightening. 3. If there is a crack or hole in the thimble, it will fill from the inside out. Turn off the water, carefully remove the thimble and replace with a new one. If the thimble releases and shards of glass, this chamber and downstream plumbing will need to be thoroughly checked and any glass removed before re-connection.
High Water Temperature	1. Low Flow Rate 2. Oversized System	1. Particularly on the smaller model (GT7-2K) if there are periods of low water usage or the water is allowed to stand for long periods of time, the water may be prone to heating up and may be either lukewarm or hot. Generally, this only occurs on systems that have a short distance between the outlet and point of use. Whole house systems have a larger length of cold plumbing pipes downstream which will dissipate this temperature. 2. If the system is too large for the application, it is likely that even with frequent water usage, the water does not get a chance to cool down effectively. If there are significant fluctuations in usage or flow rates, it is good practice to install a thermal relief valve (sold separately) on the outlet of the UV chamber which can bleed water from the chamber and keep temperatures below 56°C
Hot SS Chamber	1. Low Usage	1. As above, if the water is allowed to stand for periods of time, the chamber will heat up naturally. This is normal, however if the heating is excessive to

		the point where it is causing damage to the chamber or surrounding fixtures, a thermal relief valve (sold separately) on the outlet of the UV chamber which can bleed water from the chamber and keep temperatures below 56°C
Ballast is alarming	<p>1. Lamp Failure</p> <p>2. False Alarm</p>	<p>1. Usually if the ballast is alarming and showing a red flashing status indicating light, the lamp has failed and will require replacement. Before replacing a lamp, it is best to check firstly for an external cause for lamp failure turn off the power then check for; Water ingress from either rain, or leaks or any signs of moisture or condensation in/around the electricals. Due to the elevated temperature of the lamp, high humidity may cause condensate to form. If there are no signs of leaking, check for signs of shorts or charring on the lamp connection with the ballast. Lastly inspect the tube to see if there are any dark patches or if the filaments are burnt out.</p> <p>2. Sometimes the ballast may trigger a failure alarm if the connection to the lamp is interrupted or perhaps the connection is not solid enough. If the above steps reveal no faults and the lamp is still working (lighting up), turn the power off for 5 minutes, check connections and then turn it back on to see if the fault clears.</p>
No Lights on Ballast	<p>1. Ballast Failure</p> <p>2. Interrupted power supply</p>	<p>1. In the event of a large surge it is possible that the ballast failed. This can also occur from shorts and water ingress. Check for signs of a short around the lamp connection end. The ballast will need to be replaced. The UV lamp may also have blown at the same time, or could be the cause for the ballast failure – for safety it is best to replace both the lamp and ballast together. If it is within Warranty period please contact the manufacturer for further instructions.</p> <p>2. Check the wall socket with a different electrical appliance to check if the GPO is functioning. Also check your circuit breaker to see if any switches are off.</p>
Lamp is working but the ballast is alarming	<p>1. Faulty Lamp</p> <p>2. Faulty Ballast</p>	<p>1. The lamp may be lighting up but not working at its full capacity which may be caused by it not drawing enough power from the ballast. The lamp will require replacement. Turn the system off, check connections and turn back on to see if it fixes the alarm.</p> <p>2. The ballast could have a problem with the lamp failure protection and may require replacement. Turn the system off, check connections and turn back on to see if it fixes the alarm</p>

General Warranty

Water Filter Systems¹ (Excluding consumables) Manufactured or Assembled² by Filter Systems Australia (FSA) are covered under a 12-month Warranty Against Defects (Manufacturer's Warranty). This warrants the water filter system to be free from defects in material and workmanship for a period of 12 months from date of sale.

If applicable, FSA may cover the return freight in the form of a re-imbusement after the system has been inspected and confirmed it is a valid warranty claim.

FSA will not cover any labour charge incurred by the consumer for the replacement or repair of a product. The warranty is strictly parts only for the parts supplied by FSA. This warranty only applies to the original consumer of the product and is non-transferable. If you have purchased the system through a re-seller, please contact them to facilitate the warranty on your behalf. All replaced or exchanged parts become the property of FSA.

FSA does not cover the workmanship of the plumber who originally installed the system. Responsibility for damages that occur during installation fall with the plumber, this includes the Quartz Thimble and Lamp also.

Qualification for Warranty

As per Australian Plumbing Codes, all filter systems must be installed by a qualified plumber. The consumer is responsible for keeping record and proof of installation in the form of an invoice and/or receipt.

Filter systems must be maintained as per FSA recommendations³ including the use of replacement filters, fittings and components supplied by FSA. Failure to maintain the filtration systems using FSA supplied/approved products may void warranty.

The warranty only applies if the product was used and/or installed in accordance with the user guide and/or installation instructions. This warranty is given in lieu of all other express or implied warranties and manufacturer shall in no circumstance be held liable for damages consequential or otherwise or delays caused or faulty manufacturing except as excluded by law.

Warranties need to be approved by FSA to ensure the product was not incorrectly used, installed or claimed. False and incorrect claims will be pursued at FSA's discretion including chargeable inspection and transit costs incurred.

Installation of UV systems with a lamp power >40W must be fitted with a Thermal Relief Valve to prevent overheating unless the application is for constant flow. Damage/Failure on installations without a TRV that is deemed to be due to overheating will not be covered under warranty.

FSA does not take responsibility for retaining customer records, it is the consumer's responsibility to retain all invoices or proof of purchase from the original sale and ongoing maintenance records as proof of upkeep.

Warranty Exclusions

FSA Standard Warranty shall be void if the product sustains damage or failure resulting from any of the following:

- If your system(s) fails to be installed and maintained in accordance with recommended servicing and as per the manufacturers operating instructions.
- Unauthorised or abnormal use or operation.
- Failure to install a Thermal Relief Valve on installations where there is a likelihood for the water temperature to exceed 56°C due to lack of frequent water flow
- Failure to install a certified Single Socket Surge protector between the system and a 10A GPO
- Exposure to unsuitable environmental conditions*.

FSA does not cover the work of the plumber who originally installed the system.

Definitions

¹ Water Filter Systems are defined as systems designed for drinking water under our Water filter Systems, Reverse Osmosis Systems & Ultraviolet Sanitation Categories – Excluding Cartridges and Shower Filters.

² Other products not manufactured or assembled by FSA are covered under the applicable manufacturer's warranty.

³ FSA specifies recommended or required filter maintenance – see product information for further details. If a maintenance schedule is not specified, filter maintenance is required at least once per 12 month period.

* Unsuitable environmental conditions include but are not limited to; Excessive hot or cold, Weather extremes, Moisture/Rain/High Humidity.

Warranty – Australia

This warranty is given by Filter Systems Australia (Jacknel Pty Ltd ATF The J & N Family Trust). ABN 64 855 305 562 Located at 1/38 Jade Drive, Molendinar QLD 4214. Ph 07 5597 4585 & email info@filtersystemsaustralia.com.au

This warranty is provided in addition to other rights and remedies you have under law. Our products come with guarantees which cannot be excluded under the Consumer Guarantees Act.

Extended Warranty

Filter Systems Australia Ultraviolet Systems are eligible for an extended 4-year warranty (commencing no later than 12 months from sale date), to provide a total warranty of 5 years. This extended warranty is subject to terms and conditions outlined below. This extended warranty covers the below parts of the system.

- Ultraviolet Chamber (316 Stainless Steel)

Extended Warranty Qualification

Extended Warranty is valid only if the following conditions are met:

- The System was installed by a licenced plumber – proof of installation required in the form of a receipt or invoice for works.
- The system was maintained in accordance with our recommendations in Maintenance – Section I. Replacement Parts.
 - UV parts must be genuine FSA products purchased through FSA or participating supplier/reseller of FSA products
 - Proof of purchase for replacement parts required.

Pro-Rata & Consumable Warranty

Some components are considered consumables including the Lamp, Quartz Thimble and O-rings. General Warranty does not apply to these consumables. These products are subject to Pro-Rata Warranty conditions. Pro-Rata Warranty is determined by the period of time remaining of the components 'Lifespan' as dictated in the instruction manual (and below). A discount of the remaining balance of value (in life) will be deducted from the price of a new replacement part.

For example; A lamp has a successful warranty claim after 6 months from date of original invoice, the discount will be 50% from the next purchase of a replacement UV lamp. Pro-Rata Warranty only applies for a single use within the pro-rata period (12 months).

Pro-Rata Warranty only applies to components purchased new at full list price or as part of an applicable UV system.

Definitions

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² Other products not manufactured or assembled by FSA are covered under the applicable manufacturer's warranty.

³ FSA specifies recommended or required filter maintenance – see product information for further details. If a maintenance schedule is not specified, filter maintenance is required at least once per 12 month period.

* Unsuitable environmental conditions include but are not limited to; Excessive hot or cold, Weather extremes, Moisture/Rain/High Humidity.