

INSTRUCTION

| | | | |
|-------------------------|---|--------------------------|----------|
| PRODUCT LINE(S): | VIQUAUV (ALL LAMPS AND SYSTEMS) AQUAFINEUV (ALL LAMPS AND SYSTEMS) | DOCUMENT NUMBER: | 520534-R |
| TOPIC: | INSTRUCTION, UV LAMP AND SYSTEM INFORMATION | EDITION/REVISION: | Rev D |

UV Lamp Information

Overview

Read and observe all labels attached to product. See further directions for use, precautionary statements, claims, storage and disposal information in system product manual.

UV Lamp replacement: The amount of UV light created by the UV lamp decreases over time, requiring that the UV lamp be replaced. Some systems will automatically notify you when it is time to replace the UV lamp.

Quartz Sleeve replacement/maintenance: Minerals in the water slowly form a coating on the quartz sleeve. This coating must be removed because it reduces the amount of UV light reaching the water, thereby reducing performance. If the quartz sleeve can not be cleaned, it must be replaced.








Section 1 Safety Information

Please read this entire instruction sheet and product manual before operating this equipment. Pay attention to all danger, warning and caution statements in this instruction. Failure to do so could result in serious personal injury or damage to the equipment.




Make sure that the protection provided by this equipment is not impaired. Do not use or install this equipment in any manner other than that specified in the owners manual.

1.1 Safety Precautions



⚠ DANGER

| | |
|--|--|
|        | <p>Failure to follow these instructions will result in serious injury or death.</p> <p>Shock Hazard - Stored Energy</p> <ul style="list-style-type: none"> • Disconnect power to system before performing any maintenance or repair. • There may be more than one source of power. Only connect to a GFCI. • Protective ground • DO NOT touch with wet hands. <p>Pressurized Device - Impalement Hazard</p> <ul style="list-style-type: none"> • NEVER perform any physical inspection, repair or maintenance on UV chamber unless UV chamber has been isolated and depressurized. • NEVER service UV lamps, quartz sleeves or associated hardware until depressurization of UV chamber has been confirmed. • DO NOT store any combustible or flammable material close to the system. |
|--|--|


⚠ WARNING

| | |
|--|---|
| Failure to follow these instructions could result in serious injury or death. | |
|  | <p>UV Light Hazard</p> <ul style="list-style-type: none"> • ALWAYS use UV protective gear, including gloves and UV safety glasses. • NEVER look directly at illuminated UV lamp, even when using protective gear. • NEVER illuminate UV lamp outside of the UV chamber. • If accidental exposure occurs, immediately cool affected area and consult physician. |
| | <p>Contamination Hazard</p> <ul style="list-style-type: none"> • If UV lamp breaks, avoid inhalation, ingestion, or exposure to eyes and skin. Wear appropriate clothing and personal protective equipment. • NEVER use a vacuum cleaner to clean up broken UV lamps as this will scatter the mercury. Obey local regulations and guidelines for the removal and disposal of mercury waste. |
|  | <p>WARNING: This product can expose you to chemicals including Phthalates, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.</p> |
|  | <ul style="list-style-type: none"> • Always disconnect power before performing any work on the UV system. • Always shut-off water flow and release water pressure before servicing. • Replace the UV lamp annually (or biennially if seasonal home use) to ensure maximum performance. • Always drain the chamber when closing a seasonal home or leaving the unit in an area subject to freezing temperatures. |

⚠ CAUTION

| | |
|--|--|
| Failure to follow these instructions could result in minor or moderate injury. | |
|  | <p>Thermal Hazard</p> <ul style="list-style-type: none"> • Allow UV lamps, UV chamber to cool for a minimum of 10 (ten) minutes before handling. • When there is no water flow, the water in the chamber will become hot. To prevent scalding, allow the system to cool for 10 minutes before draining the system. |
| | <p>Personal Injury Hazard</p> <ul style="list-style-type: none"> • UV lamps and quartz sleeves are fragile. Do not strike, bend or apply pressure, or they will break. • DO NOT handle UV lamps or quartz sleeves with bare hands. Wear rubber or latex gloves to handle previously installed UV lamps and soiled quartz sleeves to protect against contaminants. Wear cotton gloves to handle new UV lamps and clean quartz sleeves. |
|  | <p>Hg Exposure</p> <ul style="list-style-type: none"> • The UV lamp contains mercury. If the lamp breaks, then avoid inhalation or ingestion of the debris and avoid exposure to eyes and skin. Never use a vacuum cleaner to clean up a broken lamp as this may scatter the spilled mercury. Obey local regulations and guidelines for the removal and disposal of mercury waste. |

NOTICE

| | |
|--|---|
|  | <p>Avoid Injury</p> <ul style="list-style-type: none"> • Read and understand this Instruction Sheet before operating and performing any maintenance on this equipment. • Keep out of reach of children. • The UV system is not to be used or played with by children. Persons with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, are also not to handle the UV system unless they have been given supervision or instruction. |
| | <ul style="list-style-type: none"> • The SQ-PA, S1Q-PA, S2Q Series, S5Q Series, S8Q Series, S12Q-PA, SCS-320, SC-320, SC410, VT1, VT1-DWS, VT4, VT4-DWS12, VT4-DWS, UV-1, UV-4, UVS-3, UVS-30, NX1518, PUV-7, PUV-14, PUV-7-P, PUV-14-P, STERIS, VL200, VL410, VL410M, E4-50+, F4-50+, H, H+, K, K, SHF-140, SHF-180, SHFM-290, SHFM-140, SHFM-180, SHFM-290, VH150, VH200, VH200-F10, VH410, VH410M, VH410-F20, VP600, VP600M, VP950, and VP950M UV systems inactivates Cryptosporidium, Giardia, Escherichia coli (E. Coli) and Fecal Coliform. • The SV5Q-PA, SV8Q-PA, D4-V, E4-V, F4-V and plus models, PUV-8, PUV-16, PUV-8-P, PUV-16-P, VH200-V, VH410-V, VH410M-V, Arros 9-V, Arros 15-V, and Arros 22-V UV systems inactivates heterotrophs, Escherichia coli (E. coli) and Fecal Coliform. |

NOTICE

| | |
|--|---|
| | <ul style="list-style-type: none"> The S2Q-OZ, S2Q-OZ/2, S8Q-OZ, and S8Q-OZ/2 inactivates Escherichia coli (E. coli), Cryptosporidium and Giardia. |
| | <ul style="list-style-type: none"> The D4, E4, F4, D4 Premium and Plus Models, IHS10-D4, IHS12-D4, IHS22-D4, IHS22-E4, IHS-10, UV-10, IHS12E-D4, Arros 9, Arros 15, and Arros 22 UV systems have been validated through microbial testing. Through this testing, performance data has been generated for UV dose delivery to inactivate Cryptosporidium, Giardia, Escherichia coli (E. coli) and Fecal Coliform. |
| | <ul style="list-style-type: none"> The VL200-AD, VL200-ADS, VL200-TD, VL200-TDS, VL410-AD, VL410-ADS, VL410-TD, VL410-TDS, and STERIU5 UV systems inactivate Cryptosporidium, Giardia, Escherichia coli (E. coli) and Fecal Coliform. |
| | <ul style="list-style-type: none"> The VL410-AT, VL410-ATS, VL410-TT, and VL410-TTS break down trace levels of ozone, chlorine and total organic carbon. |
| | <ul style="list-style-type: none"> The PRO10, PRO20, SPV-1.5, SPV-15 and PRO30 UV systems inactivate Escherichia coli (E. coli), Fecal Coliform, Cryptosporidium, Giardia, and Rotavirus. |
| | <ul style="list-style-type: none"> The PRO24-100 and PRO24-186 UV systems are validated through microbial testing. Through this testing, performance data has been generated for UV dose delivery to inactivate Cryptosporidium, Giardia, and Adenovirus. |
| | <ul style="list-style-type: none"> The PRO50 UV systems is validated through microbial testing. Through this testing, performance data has been generated for UV dose delivery to inactivate Cryptosporidium & Giardia. |
| | <ul style="list-style-type: none"> Legacy UV systems and lamps inactivate Cryptosporidium, Giardia, Escherichia coli (E. coli) and Fecal Coliform. |
| | <ul style="list-style-type: none"> TOC legacy UV systems and lamps break down trace levels of ozone, chlorine and total organic carbon. |
| | <p><i>Note: Models may be followed by "-XXXX", "/XXXX", "M", "S" or "+", where these extensions denote derivatives of the base product. These derivatives have the same performance as their base models.</i></p> |

Section 2 UV Lamp and System Information

| Product Line | Lamp Part Number | Product | Instruction Sheet Part Number |
|--------------|-----------------------------------|------------|-------------------------------|
| VIQUA | S740RL-4C QL-140 | SHF-140 | 520188-R |
| | | SHFM-140 | |
| VIQUA | S950RL-4C QL-180 QL-290 | SHF-180 | 520188-R |
| | | SHFM-180 | |
| | | SHF-290 | |
| | | SHFM-290 | |
| VIQUA | 602805 602805/12 602810-102 | D4 | 602808 |
| | | D4-V | |
| | | D4 Premium | |
| | | PUV-8 | |
| | | PUV-8-P | |
| | | UV-10 | |
| | | IHS-D4 | |
| VIQUA | 602806 602806/12 602810-103 | E | 602808 |
| | | E4 | |
| | | E4-V | |
| | | E4-50+ | |
| | | IHS22-E4 | |
| | | PUV-16 | |
| | | PUV-16-P | |
| VIQUA | 602807 602807/10 602810-104 | F | 602808 |
| | | F4 | |
| | | F4-V | |
| | | F4-50+ | |
| VIQUA | 602854 602854/12 602850-101 | PRO10 | 602962 |

UV Lamp and System Information

| Product Line | Lamp Part Number | Product | Instruction Sheet Part Number |
|--------------|---|-----------|-------------------------------|
| VIQUA | 602855 602855/12 602850-102 | PRO20 | 602962 |
| | | H | |
| | | H+ | |
| VIQUA | 602856 602856/10 602850-103 | K | 602962 |
| | | K+ | |
| | | PRO30 | |
| | | PRO50 | |
| | | PRO24-186 | |
| | | PRO24-100 | |
| VIQUA | 250120 | S2Q-PA | 520183-R |
| VIQUA | 56058-35 | S5Q-PA | 520183-R |
| VIQUA | 56058-37 | S8Q-PA | 520183-R |
| VIQUA | S8ROL/4P | S8Q-OZ | 520183-R |
| VIQUA | S415ROL | S2Q-OZ | 520183-R |
| Aquafine | 250449-DS20 | VL410-AD | 520184-R |
| | | VL410-ADS | |
| | | VL410-TD | |
| | | VL410-TDS | |
| Aquafine | 250449-DS12 | VL200-AD | 520184-R |
| | | VL200-ADS | |
| | | VL200-TD | |
| | | VL200-TDS | |
| Aquafine | 250450-TS20 | VL410-AT | 520184-R |
| | | VL410-ATS | |
| | | VL410-TT | |
| | | VL410-TTS | |
| Aquafine | 45635 46060 46061 | STERIU5 | 520533-R |
| VIQUA | S150RL-HO S150RL-HO/12 SHO150-QL | VH150 | 520183-R |
| VIQUA | S200RL-HO S200RL-HO/12 SHO200-QL | VH200 | 520183-R |
| | | VH200-V | |
| | | PUV-7 | |
| | | PUV-7-P | |
| | | UVS-10 | |
| VIQUA | S320RL-HO S320RL-HO/12 SHO320-QL | SCS-320 | 520183-R |
| | | SC-320 | |
| VIQUA | S410RL-HO S410RL-HO/12 S410RL-HO-A/12 S410RL-HW QL-410 SHO410-QL | VH410 | 520183-R |
| | | VH410-V | |
| | | SC410 | |
| | | PUV-14 | |
| | | PUV-14-P | |
| | | UVS-20 | |
| VIQUA | S600RL-HO S600RL-HO/12 QL-600 SHO600-QL | VP600 | 520183-R |
| | | UVS-30 | |

| Product Line | Lamp Part Number | Product | Instruction Sheet Part Number |
|--------------|---|---|-------------------------------|
| VIQUA | S950RL-HO S950RL-HO/10 S950RL-HW QL-950 SHO950-QL | VP950 | 520183-R |
| VIQUA | S212RL S212RL/12 S212RL/30 S212-QL | SQ-PA UV-1 VT1 | 520183-R |
| VIQUA | S212RL S287RL/12 S287RL/30 S287-QL | S1Q-PA NX1518 | 520183-R |
| VIQUA | S330RL S330RL/12 S330RL/30 S330-QL | S2Q-PA S2Q-PV S2Q-P/12DC S2Q-PM/12 S2Q-VE UV-4 UVS-3 VT4 | 520183-R |
| VIQUA | S463RL S463RL/12 S463RL/30 S463-QL | S5Q-P/12VDC S5Q-P/24 S5Q-PA S5Q-PV SV5Q-PA | 520183-R |
| VIQUA | S810RL S810RL/12 S810RL/30 S810-QL | S8Q-P/24 S8Q-PA SV8Q-PA | 520183-R |
| VIQUA | VA09LU VA15LU VA22LU | Arros 9-V Arros 15-V Arros 22-V | 520528 |

Section 3 Legacy UV System and Lamp Information

| Product Line | Legacy Lamp Part Number | Product | Instruction Sheet Part Number |
|--------------|-----------------------------------|-----------------------------|-------------------------------|
| VIQUA | 602803 602803/12 602809-100 | A Systems | 602808 |
| VIQUA | 602804 602804/12 602810-101 | B B4 B4-V | 602808 |
| VIQUA | 602805 602805/12 602810-102 | C D C4 | 602808 |
| VIQUA | 56058-33 | S1Q-PA | 520033 |
| VIQUA | 56058-41 | S12Q-PA | 520033 |
| VIQUA | S64RL-AM | SUVAM-12/8-B SUVAM-6/6-B | N/A |
| VIQUA | S36RL-AM | SUVAM-6C/4-B | N/A |
| VIQUA | 89500 | UVSS-6 | 520184-R |
| VIQUA | 89501 | UVSS-10 | 520184-R |
| VIQUA | 89502 | UVSS-15 | 520184-R |

| Product Line | Legacy Lamp Part Number | Product | Instruction Sheet Part Number |
|--------------|---|----------|-------------------------------|
| VIQUA | S64RL/4 | CUV 225P | N/A |
| VIQUA | S100RL-HO | SPV-1.5 | 520183-R |
| VIQUA | S740RL-HO S740RL-HO/12 SHO740-QL | SPV-15 | 520183-R |
| VIQUA | S36RL S36RL/12 S36RL/30 S36-QL | S12Q-PA | 520183-R |
| VIQUA | S200RL-HO S200RL-HO/12 SHO200-QL | SC200-A | 520183-R |

Section 4 TOC Legacy UV System and Lamp Information

| Product Line | TOC Legacy Lamp Part Number | Product | Instruction Sheet Part Number |
|--------------|-----------------------------|-------------------|-------------------------------|
| VIQUA | S36ROL-AM | TOC Legacy System | N/A |
| VIQUA | S64ROL/4 | STOC Systems | 520183-R |
| VIQUA | S212ROL | TOC Legacy System | 520183-R |
| VIQUA | S287ROL | TOC Legacy System | 520183-R |
| VIQUA | S330ROL | TOC Legacy System | 520183-R |
| VIQUA | S463ROL | TOC Legacy System | 520183-R |
| VIQUA | S810ROL | TOC Legacy System | 520183-R |



425 Clair Rd. W, Guelph, Ontario, Canada N1L 1R1
t. (+1) 519.763.1032 • tf. (+1) 800.265.7246 (US and Canada only)
t. (+31) 73 747 0144 (Europe only) • f. (+1) 519.763.5069
e-mail: info@viqua.com
www.trojantechnologies.com



425 Clair Rd. W, Guelph, Ontario, Canada N1L 1R1
t. (+1) 800.423.3015
e-mail : techsupport@aquafineuv.com
www.aquafineuv.com
www.trojantechnologies.com