The NeoTech D238™ is specially designed to disinfect water and is an essential component in advanced oxidation processes. This high-efficiency UV system utilizes NeoTech Aqua’s patented ReFleX™ chamber technology, reflecting over 99% of the 254nm UV generated. It is the highest efficiency, smallest footprint, and lowest operating cost UV system in the water treatment industry. With only a single thirty-eight inch lamp, the D238™ provides users the most convenient and lowest cost service schedule of any low pressure or medium pressure UV systems today.

MAXIMUM UV PENETRATION
The NeoTech D238™ provides users an unparalleled level of engineering sophistication by maximizing UV distribution in a patented 99% reflective chamber. This unique technical advantage also reduces the number of lamps and power requirements by up to 90% compared to standard UV systems.

MINIMAL MAINTENANCE & SERVICE
The service and maintenance requirements for the NeoTech D238™ are limited to three basic requirements:
- Lamp Replacement: No Tools Required
- UV Monitor: May be changed with a single screwdriver while the system is operating
- Cleaning: May be cleaned as needed in a CIP loop or manually brushed.

UNPARALLELED EFFICIENCY
The NeoTech D238™ boasts the smallest footprint in its class. With as few as one-tenth as many bulbs compared to standard UV systems, it has the lowest operating cost and maintenance schedule in the field.

PRODUCT BENEFITS
- Single lamp efficiency processes up to 65 gallons per minute
- 75% smaller footprint compared to standard UV systems
- May be mounted vertically or horizontally for maximum installation flexibility
- Up to four units may be controlled with a single micro-control box
- Built for 120V or 230V single phase power providing for maximum flexibility
- No flow, No Problem (Guaranteed 60 minutes)
- Water Contact Finish – Ra- 15
- Controller- Remote
- Lamp and power alarms, Remote Control, 4-20 mA output
- Real Time Dosimetry, 100% Dosage Assurance (With constant flow)
- UV Monitor is NIST Traceable
- Sanitization in Place – Hot Water or Steam
- No-Tool Lamp Change
- NSF Standard 50 Certified
- Warranty one year parts and labor

SPECIFICATIONS
Flow Rate - gpm (m3/hr.) - 99% UVT @ 40mJ/cm^2 65 (15)
Flow Rate - gpm (m3/hr.) - 99% UVT @ 30mJ/cm^2 65 (15)
Flow Rate - gpm (m3/hr.) - 95% UVT @ 40mJ/cm^2 65 (15)
Flow Rate - gpm (m3/hr.) - 95% UVT @ 30mJ/cm^2 65 (15)
Number of High Output Amalgam Lamps 1
Lamp Life - Hours* 9000
Operating Power - watts (includes control box) 154
Operating Pressure - psi (bar) 150 (10)
Operating Temperature - ºF (ºC) 36 - 104 (2 - 40)
Pressure Drop at rated flow - psi (bar) 5.2 (0.45)
Dry Weight - pounds (kg) 42 (19.1)
Dimensions (L x H x D) - inches 39.9 x 6.2 x 8.2
Dimensions (L x H x D) - millimeters 1014 x 158 x 208
Sanitary Fittings - Standard + 1.5 in.

OPTIONS AND SPARES

<table>
<thead>
<tr>
<th>Description</th>
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<tr>
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<td>UVIM-CAL</td>
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<tr>
<td>Ballast Kit, 230V</td>
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* Reflected UV light may be harmful to non-metallic surfaces, such as PPL, PVC, and other plastics. If such materials are utilized in the water treatment system, a light trap is recommended.
NeoTech D238™
Ultrapure Water Disinfection & Ozone Destruction
• Pharmaceutical • Microelectronics • Medical • Remediation • Beverage
• Commercial/Industrial • Pool/Spa • Waste Water • Drinking Water

THE NEOTECH D238™ IS SPECIALLY DESIGNED TO DISINFECT WATER AND IS AN ESSENTIAL COMPONENT IN ADVANCED OXIDATION PROCESSES. THIS HIGH-EFFICIENCY UV SYSTEM UTILIZES NEOTECH AQUA’S PATENTED REFLEX™ CHAMBER TECHNOLOGY, REFLECTING OVER 99% OF THE 254NM UV GENERATED. IT IS THE HIGHEST EFFICIENCY, SMALLEST FOOTPRINT, AND LOWEST OPERATING COST UV SYSTEM IN THE WATER TREATMENT INDUSTRY. WITH ONLY A SINGLE THIRTY-EIGHT INCH LAMP, THE D238™ PROVIDES USERS THE MOST CONVENIENT AND LOWEST COST SERVICE SCHEDULE OF ANY LOW PRESSURE OR MEDIUM PRESSURE UV SYSTEMS TODAY.

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• No flow, No Problem (Guaranteed 60 minutes)
• Water Contact Finish – Ra-15
• Controller - Remote
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Operating Pressure - psi (bar) 150 (10)
Operating Temperature - ºF (ºC) 36 - 104 (3 - 40)
Pressure Drop at rated flow - psi (bar) 3.3 (0.23)
Dry Weight - pounds (kg) 51 (23.1)
Dimensions (L x H x D) - inches 39.9 x 6.5 x 8.2
Dimensions (L x H x D) - millimeters 1014 x 158 x 208
Sanitary Fittings - Standard + 1.5 in.

* Lamp life is based on a maximum of one on/off cycle per day and water at room temperature.
+ All units include sanitary tri-clamp fittings for improved reliability, sanitation, and ease of installation. Alternative connections are available upon request.

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The UV transmissivity (UVT) of the treated water, combined with the flow rate through the unit, determine the UV dosage applied to the water. Particles in water typically absorb or reflect UV light which affects the UVT of the NeoTech treatment chamber. NeoTech Aqua’s units are rated based on a UVT of 95%. The above graph illustrates the appropriate rating based on varying UVT levels. The NeoTech Aqua Solutions technical team provides complimentary UVT analysis on customer-supplied water samples to ensure proper UV equipment sizing. Please contact your NeoTech Aqua representative for assistance.
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