Model MP36C
45 LPM

System Tested and Certified by NSF International against NSF®/ANSI Standard 55 for Disinfection Performance, Class B
ABOUT US

Since 1963, Atlantic Ultraviolet Corporation® has pioneered the discovery and development of beneficial uses of ultraviolet energy. Over the years these efforts have led to the development of valuable, cost effective and environmentally sound techniques and products now known and respected throughout the world.

The UV Application Specialists at Atlantic Ultraviolet Corporation® assist customers in the selection of germicidal lamps and equipment. Their specialized knowledge is a valuable resource in formulating effective and cost-conscious ultraviolet solutions. Extensive inventories and a dedicated staff enable Atlantic Ultraviolet Corporation® to fulfill its commitment to provide fast deliveries and responsive customer service.

GERMICIDAL ULTRAVIOLET

Ultraviolet water purification is a unique and rapid method of water disinfection without the use of heat or chemicals.

MIGHTY★PURE® Ultraviolet Purifiers utilize germicidal ultraviolet lamps that produce short wave radiation lethal to bacteria, virus, and other microorganisms present in water. Through the years ultraviolet technology has become well established as a method of choice for effective and economical water disinfection.

MIGHTY★PURE® Ultraviolet Water Purifiers are the ideal solution for an ever growing range of water treatment applications.

(For larger capacities please refer to our SANITRON® and MEGATRON® Ultraviolet Water Disinfection Catalogs)
ADVANTAGES

**Effective**
Virtually all microorganisms are susceptible to MIGHTY•PURE® ultraviolet disinfection

**Economical**
Hundreds of gallons are purified for each penny of operating cost

**Safe**
No danger of overdosing, no addition of chemicals

**Fast**
Water is ready for use as soon as it leaves the purifier—no further contact time required

**Easy**
Simple installation and maintenance. Compact purifiers require minimum space

**Automatic**
Provides continuous disinfection without special attention or measurement

**Chemical Free**
No chlorine taste or corrosion problems

**Versatile**
Capacities available from 11 to 76 liters per minute (LPM)

PRINCIPLE OF OPERATION

The water enters the purifier and flows into the annular space between the quartz sleeve and the chamber wall.

1. Inlet
2. Sight Port
3. Outlet

Translucent sight port provides positive indication of germicidal lamp operation.

Water leaving the purifier is instantly ready for use.
**SPECIAL FEATURES**

**INSTALLATION & MAINTENANCE**

The purifier is installed horizontally as close as possible to the point of use. Connection of the inlet and outlet to water supply and insertion of power plug into 3-wire grounded GFCI outlet is all that is required.

Ordinary maintenance consists of routine cleaning of the quartz sleeve once monthly or more frequently where conditions dictate. Lamp replacement is recommended every 10,000 hours of operation (approximately 14 months of continuous service).
The GUARDIAN™ Ultraviolet Monitors are available in two models: Digital and Digital Remote, and can either be purchased and installed with a UV water purifier, or at a later date for an existing installation.

The GUARDIAN™ Ultraviolet Monitor visually indicates the level of germicidal ultraviolet energy that penetrates the quartz sleeve and water within the water purifier. The use of an ultraviolet monitor is recommended by the United States Public Health Service in “Criteria for the Acceptability of an Ultraviolet Disinfection Unit.”

GUARDIAN™ Ultraviolet Monitors will detect reduction of ultraviolet levels due to:

- Fouling or deposits on the quartz sleeve.
- Poor ultraviolet transmission through the water. Color, turbidity, and organic or other impurities in the water can reduce or interfere with the transmission of ultraviolet rays.
- Lamp outage or ballast failure.
- Depreciation of the lamp output due to usage or other cause. Lamp output gradually depreciates with use. Lamp replacement is recommended once a year or every 10,000 hours.

All GUARDIAN™ Ultraviolet Monitors provide outputs to control the operation of an optional Promate™ Solenoid Valve and/or optional Promate™ Remote Audio Alarm.

The GUARDIAN™ Digital Ultraviolet Monitors includes switch settings that control an internal audio alarm and the Solenoid Output. There are 4 settings; two of the settings have 2-Minute time delays of power to the Solenoid Output.

**Digital:** Direct Mount GUARDIAN™ Ultraviolet Monitor is available in two Low-Voltage Models: a 12v Model, and a 110/220v Model which uses a multi-plug configuration 12v adapter to operate. This model also provides several outputs from an RJ45 modular jack for remote monitoring of the water purifier’s operation:

- 4–20mA Output: Provides current for remote display of ultraviolet intensity.
- Dry Contacts: Provide contacts for remote indication of ultraviolet trip levels.
- 12v DC Output: Provides power for a low-voltage external audio alarm.

**Digital Remote:** Remote Mount GUARDIAN™ Ultraviolet Monitor is intended for use in locations away from the water purifier it is monitoring. In all other respects, the remote monitor operates in the same manner as the standard Digital GUARDIAN™ Ultraviolet Monitor.

**GUARDIAN™ ASSIST Ultraviolet Monitor Extension:** Designed to remotely indicate the intensity level displayed on the GUARDIAN™ Ultraviolet Monitor.

The STERALERT™ Lamp Status Alarm monitors visible light emitted through the sight port plug of the water purifier and activates an audible alarm when visible light fails.

- Easy installation, no tools required
- Mounts on the sight port plug
- Operates on a 9v battery
- Monitors the visible light emitted by the ultraviolet lamp (does not monitor the ultraviolet intensity)
- Warns of lamp or power failure
- Produces a high frequency tone, pulsed at two to three cycles per second
- Available with Dry Contact for connection to PLC
- Optional Remote Sounder available
- Optional 120v 60Hz Power Adapter available

The SENTRY™ Safety Sensor provides constant monitoring of the water purifier’s ballast and germicidal lamp operation to give an indication of ballast and germicidal lamp status. The SENTRY™ Safety Sensor is capable of operating an optional Promate™ Audio Alarm and/or Promate™ Solenoid Valve.

- Easy installation – Plug SENTRY™ into an electrical outlet, and then plug water purifier into SENTRY™
- Operates optional Promate™ Solenoid Valve and/or Promate™ Audio Alarm
- Warns of lamp failure and is easily adaptable for use with other water purifier brands
- Available for 120v 50/60Hz and 220v 50/60Hz water purifiers operating with electronic ballasts

Options may either be obtained when purchase of MIGHTY • PURE® model is made, or added at a later date. For further details, visit Ultraviolet.com or BuyUltraviolet.com.
Germicidal lamps provide effective protection against microorganisms. A small cross-section is shown below.

<table>
<thead>
<tr>
<th>ORGANISM</th>
<th>ALTERNATE NAME</th>
<th>TYPE</th>
<th>DISEASE</th>
<th>DOSE*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bacillus subtilis spores</td>
<td>B. subtilis</td>
<td>Bacteria</td>
<td>————</td>
<td>22,000</td>
</tr>
<tr>
<td>Bacteriophage</td>
<td>Phage</td>
<td>Virus</td>
<td>————</td>
<td>6,600</td>
</tr>
<tr>
<td>Coxsackie virus</td>
<td>————</td>
<td>Virus</td>
<td>Intestinal infection</td>
<td>6,300</td>
</tr>
<tr>
<td>Shigella spores</td>
<td>————</td>
<td>Bacteria</td>
<td>Bacterial Dysentery</td>
<td>4,200</td>
</tr>
<tr>
<td>Escherichia coli</td>
<td>E. coli</td>
<td>Bacteria</td>
<td>Food poisoning</td>
<td>6,600</td>
</tr>
<tr>
<td>Fecal coliform</td>
<td>————</td>
<td>Bacteria</td>
<td>Intestinal infection</td>
<td>6,600</td>
</tr>
<tr>
<td>Hepatitis A virus</td>
<td>Infectious Hepatitis virus</td>
<td>Virus</td>
<td>Hepatitis of the liver</td>
<td>8,000</td>
</tr>
<tr>
<td>Influenza virus</td>
<td>Flu virus</td>
<td>Virus</td>
<td>Influenza</td>
<td>6,600</td>
</tr>
<tr>
<td>Legionella pneumophilia</td>
<td>————</td>
<td>Bacteria</td>
<td>Legionnaires’ Disease</td>
<td>12,300</td>
</tr>
<tr>
<td>Salmonella typhi</td>
<td>————</td>
<td>Bacteria</td>
<td>Typhoid Fever</td>
<td>7,000</td>
</tr>
<tr>
<td>Staphylococcus aureus</td>
<td>Staph</td>
<td>Bacteria</td>
<td>Food poisoning, Toxic Shock Syndrome, etc.</td>
<td>6,600</td>
</tr>
<tr>
<td>Streptococcus spores</td>
<td>Strep</td>
<td>Bacteria</td>
<td>Strep throat</td>
<td>3,800</td>
</tr>
</tbody>
</table>

When used as directed to disinfect clear water, MIGHTY*PURE® Water Purifiers provide an ultraviolet dosage in excess of 30,000 microwatt seconds per square centimeter (µWSec/cm²).

* Nominal Ultraviolet dosage (µWSec/cm²) necessary to inactivate better than 99% of specific microorganism.
Consult factory for more complete listing.

**OPERATING CHARACTERISTICS**

Approximately 95% of the ultraviolet energy emitted from STER-L-RAY® germicidal lamps is at 254 nanometers, the region of germicidal effectiveness most destructive to bacteria, mold, and virus.
Genuine Ster-L-Ray® Germicidal Lamps

**Ster-L-Ray®** Germicidal Lamps are shortwave, low pressure tubes that produce ultraviolet wavelengths lethal to microorganisms.

**Ster-L-Ray®** Germicidal Lamps are well-suited to applications requiring high ultraviolet intensity such as water purification.

**Ster-L-Ray®** Instant Start Germicidal Lamps utilize a coil filament on each end which operates hot. Lamp life is governed by the life of the electrodes and is affected by the frequency of starting.

**Ster-L-Ray®** Preheat Germicidal Lamps are operated by a preheat-start circuit that employs a compact and economical ballast. The preheat circuit requires four electrical connections per lamp and a slight to moderate delay is needed to start the lamp.

**Ster-L-Ray®** and the **Ster-L-Ray®** logo are trademarks of Atlantic Ultraviolet Corporation®.

**CAUTION:** Exposure to direct or reflected germicidal ultraviolet rays will cause painful eye irritation and reddening of the skin. Personnel subject to such exposure must wear suitable faceshield, gloves and protective clothing.

Hg - LAMP CONTAINS MERCURY, manage in accord with disposal laws, see: LampRecycle.org.

## Germicidal Lamp Data

<table>
<thead>
<tr>
<th>Lamp Number</th>
<th>Purifier Model No.</th>
<th>Nominal Lamp Length</th>
<th>Power Consumption</th>
<th>Ultraviolet Output</th>
<th>Rated Effective Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>05-1098-R</td>
<td>MP16A</td>
<td>302 mm (11-7/8&quot;)</td>
<td>14 Watts</td>
<td>4.0 Watts</td>
<td>10,000 Hrs.</td>
</tr>
<tr>
<td>05-1097-R</td>
<td>MP22A</td>
<td>451 mm (17-3/4&quot;)</td>
<td>21 Watts</td>
<td>7.3 Watts</td>
<td>10,000 Hrs.</td>
</tr>
<tr>
<td>05-1343-R</td>
<td>MP36C</td>
<td>860 mm (33-7/8&quot;)</td>
<td>41 Watts</td>
<td>15.0 Watts</td>
<td>10,000 Hrs.</td>
</tr>
<tr>
<td>05-1334-R</td>
<td>MP49C</td>
<td>1148 mm (45-13/64&quot;)</td>
<td>55 Watts</td>
<td>21.0 Watts</td>
<td>10,000 Hrs.</td>
</tr>
</tbody>
</table>

1. Wattage is lamp watts only and does not include ballast loss (approximate).
2. Maximum rated output at 254 nanometers.

The lamps listed above have been especially developed and are recommended for use with **MIGHTY•PURE®** Water Purifiers.

All **Ster-L-Ray®** lamps used in **MIGHTY•PURE®** purifiers are low pressure type which afford the maximum efficiency in producing the required germicidal rays. In addition, has advantage of high efficiency and low power requirements.
WATER QUALITY RECOMMENDATIONS

Maximum Concentration Levels Before Ultraviolet

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turbidity</td>
<td>5 NTU</td>
</tr>
<tr>
<td>Suspended Solids</td>
<td>10 mg/L</td>
</tr>
<tr>
<td>Color</td>
<td>None</td>
</tr>
<tr>
<td>Iron</td>
<td>0.3 mg/L</td>
</tr>
<tr>
<td>Manganese</td>
<td>0.05 mg/L</td>
</tr>
<tr>
<td>pH</td>
<td>6.5 - 9.5</td>
</tr>
<tr>
<td>Hardness</td>
<td>6 gpg</td>
</tr>
</tbody>
</table>

Effectively treating water with higher concentration levels than listed above can be accomplished, but may require added measures to improve water quality to treatable levels.

### STANDARD MODELS

<table>
<thead>
<tr>
<th>Model</th>
<th>Liters Per Minute</th>
<th>Liters Per Hour</th>
<th>Inlet and Outlet</th>
<th>Replacement Lamps</th>
<th>Power Consumption</th>
<th>Dimensions - mm (inches)</th>
<th>Shipping Data (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Length</td>
<td>Width</td>
</tr>
<tr>
<td>MP16A</td>
<td>11</td>
<td>681</td>
<td>19 mm (3/4&quot;) NPT</td>
<td>05-1098-R</td>
<td>18 Watts</td>
<td>419</td>
<td>110</td>
</tr>
<tr>
<td>MP22A</td>
<td>23</td>
<td>1,363</td>
<td>19 mm (3/4&quot;) NPT</td>
<td>05-1097-R</td>
<td>25 Watts</td>
<td>572</td>
<td>110</td>
</tr>
<tr>
<td>MP36C</td>
<td>45</td>
<td>2,725</td>
<td>25 mm (1&quot;) NPT</td>
<td>05-1343-R</td>
<td>48 Watts</td>
<td>927</td>
<td>144</td>
</tr>
<tr>
<td>MP49C</td>
<td>76</td>
<td>4,542</td>
<td>38 mm (1-1/2&quot;) NPT</td>
<td>05-1334-R</td>
<td>65 Watts</td>
<td>1257</td>
<td>144</td>
</tr>
</tbody>
</table>

**NSF® Certified Models**

1. All inlets and outlets are male pipe threads.
2. Total power consumption including ballast loss (approximate).

- Maximum recommended operating pressure for all purifiers is 100 PSI
- Pressure drop at maximum recommended flow rate is 5 PSI or less
- Flow rates are based on Maximum Concentration Levels
- All data shown reflects 120 Volt 50/60 Hz operation
- MIGHTY*PURE* purifiers are also available in 220 Volt 50/60 Hz and 12 and 24 Volt DC
- MIGHTY*PURE* is available for operation on public power supplied throughout the world
- Consult factory with specific power requirements
APPLICATIONS FOR ULTRAVIOLET WATER PURIFICATION

Residential & Recreational
- Point Of Use Installation
- Under The Sink
- Water Vending Machines
- Whole House Purification
- Well Water Disinfection
- Water Cistern Sterilizers
- Rural Water Systems
- Recreational Vehicles
- Motor Homes & Trailers
- Boats
- Hot Tubs & Spas
- Swimming Pools
- Fish Ponds
- Koi Ponds
- Water Gardens
- Lakes
- Ornamental Ponds
- Fountain Water Features
- Aquariums
- Hatcheries
- Rainwater Collection
- Water Dispensing Appliances

Transient Systems
- Resorts, Hotels, & Motels
- Ships, Yachts, Boats
- Campgrounds
- Restaurants
- Water Parks
- Amusement Parks
- Golf Course Water Holes

Community Systems
- Apartment Complexes
- Condominium Complexes
- Trailer Parks
- Rural Water
- Villages, Towns, Cities
- Farms & Ranches
- Animal Husbandry

Institution Systems
- Laboratories
- Hospital
- Clinics
- Maternity Areas
- Labor & Delivery Areas
- Pathology Labs
- Kidney Dialysis Labs
- Nursing Homes
- Universities
- Schools
- Veterinary Clinics

Industry Systems
- Pharmaceutical Mfg.
- Electronic Production
- Cosmetic Production
- Cooling Tower
- Power Generation
- Nurseries
- Food Industry
- Ice Makers
- Pulp & Paper Production
- Water Vending Machines
- Laundry Water
- Pure Wash Water
- Bottled Water
- Beer, Wine
- Soft Drinks
- Fruit Juices
- Bottling Facilities
- Edible Oils
- Liquid Sugar
- Sweeteners
- Water Based Lubricants
- Dairy Processing
- Cistern Applications
- Mollusk Hatcheries
- Water Preserves

- TOC Reduction
- Ozone Reduction
The unique advantage of UV purification is that nothing is added to the water. When chemical methods of treatment are used, there may be handling problems, taste and odor problems, and undesirable chemical reactions with substances present in the water.

This difference is most significant when producing water for:

- Drinking or swimming
- Processing foods and bottled beverages
- Manufacturing cosmetics or pharmaceuticals
- Hospitals and research institutions
- Tertiary treatment of municipal or industrial wastewater

The Versatility of UV Purification

UV purification provides germ-free potable water for home, institutional and municipal use, as in the following applications.

- **Water wells**: bacterial contamination of wells is unpredictable and may occur from seepage of surface water or sewage.
- **The outlet side of water cisterns**: most cisterns foster the proliferation of bacteria in untreated water.
- **Swimming pools**: to control bacteria, algae and slime formation. It avoids the undesirable effects of heavily chlorinated swimming pool water by allowing substantial reduction of the use of chlorine.

UV purification provides bacteria-free food process water without the use of germicides, oxidants, algaecides or chemical precipitants; particularly useful in the following applications where chlorine adversely affects flavor.

- **Brewery, winery, soft drink, and water bottling industries**: where biological purity of the water must be absolutely maintained in order to ensure product quality.
- **Dairy products**: for safeguarding against spoilage of cottage cheese and butter; certain psychrophilic bacteria are resistant to chlorine treatment.
- **Sterile washwater**: to guard against waterborne bacteria spoilage where vegetable, fruits, meats, fish and other products must be washed in water before packaging.

UV purification is particularly useful in the following applications where chlorine-free, de-ionized and/or carbon filtered water are extensively employed. Unattended carbon filters and ion-exchange tanks act as incubators for bacteria accumulation.

- **Electronics**: in conjunction with de-ionized and high purity water systems.
- **Pharmaceuticals and cosmetics**: strict water treatment standards are necessary for strict maintenance of product’s quality control.
- **Biological laboratories**: sterile water is required for testing and research work.
- **Hospitals**: provides ultra-pure water on demand for maternity labor and delivery areas, pathology labs, etc.

In industrial pollution control, UV purification affords an excellent end-treatment.

- **Wastewater control systems**: for selective use as a tertiary treatment for bacteria destruction after removal of chemicals and other objectionable ingredients.
## COMPARISON OF ATLANTIC ULTRAVIOLET WATER PURIFIERS

<table>
<thead>
<tr>
<th>FEATURES</th>
<th>Bio-Logic® Pure Water Pack™ 1.5 GPM</th>
<th>MINIPURE® 1 to 9 GPM</th>
<th>Ultimate® 4 to 9 GPM</th>
<th>MIGHTY★PURE® 3 to 20 GPM</th>
<th>SANITRON® 3 to 416 GPM</th>
<th>MEGATRON® 90 to 450 GPM</th>
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<tbody>
<tr>
<td>Chamber Material (Stainless Steel Type)</td>
<td>316</td>
<td>304</td>
<td>304</td>
<td>316</td>
<td>316</td>
<td>316</td>
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<tr>
<td><strong>STER-L-RAY®</strong> Germicidal Ultraviolet Lamp with 10,000 Hours Rated Effective Life</td>
<td>S</td>
<td>S</td>
<td>S</td>
<td>S</td>
<td>S</td>
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<tr>
<td>Quick Lamp Change with the EASY-OFF™ End Cap</td>
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<td>S</td>
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<td>S</td>
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<td>CRYSTAL CLEAR™ Quartz Sleeve</td>
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<td>Lamp Out Indicator Light(s)</td>
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<td>–</td>
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<td>Sight Port to View Lamp Operation</td>
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<td>S</td>
<td>S</td>
<td>S</td>
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<td>Drain Fitting</td>
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<td>Dual Action Wiper Mechanism</td>
<td>–</td>
<td>–</td>
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<td>Manual</td>
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<td>Suggested Mount Installation</td>
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<tr>
<td>Removable or Rotatable Heads</td>
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<td>–</td>
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<td>S</td>
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<tr>
<td>Alternate Inlet/Outlet Fittings</td>
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<td>–</td>
<td>–</td>
<td>–</td>
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<td>O</td>
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<tr>
<td>Sediment and Carbon Filter</td>
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<td>–</td>
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<tr>
<td>Promate™ Mounting Kit / Bracket</td>
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<td>S</td>
<td>S</td>
<td>O</td>
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<td>–</td>
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<tr>
<td>GUARDIAN™ Ultraviolet Monitor</td>
<td>–</td>
<td>–</td>
<td>–</td>
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<tr>
<td>GUARDIAN™ ASSIST Monitor Ext.</td>
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<td>–</td>
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<td>O</td>
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<tr>
<td>SENTRY™ Safety Sensor</td>
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<td>O</td>
<td>–</td>
<td>O</td>
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<td>–</td>
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<tr>
<td>Promate™ Audio Alarm</td>
<td>S</td>
<td>S</td>
<td>S</td>
<td>O</td>
<td>O</td>
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<tr>
<td>Promate™ Solenoid Valve</td>
<td>–</td>
<td>O</td>
<td>–</td>
<td>O</td>
<td>O</td>
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</tr>
<tr>
<td>SureFLO™ Flow Control Valve</td>
<td>–</td>
<td>O</td>
<td>S</td>
<td>O</td>
<td>O</td>
<td>–</td>
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<tr>
<td>Promate™ Elapsed Time Indicator</td>
<td>O</td>
<td>O</td>
<td>–</td>
<td>O</td>
<td>O</td>
<td>S</td>
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<tr>
<td>Promate™ Time Delay Mechanism</td>
<td>–</td>
<td>O</td>
<td>–</td>
<td>O</td>
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<tr>
<td>Residential Use</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<td>Commercial Use</td>
<td>–</td>
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<td>Industrial Use</td>
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<td>–</td>
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<tr>
<td><strong>NSF Certified Models</strong></td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>X</td>
<td>X</td>
<td>–</td>
</tr>
</tbody>
</table>

1. SANITRON® Model S10,000C through S25,000C come equipped with mounting rack.
2. MIGHTY★PURE® MP36C and MP49C are available with NSF®/ANSI 55 for Disinfection Performance, Class B.
3. SANITRON® Models S37C, S50C, and S2400C are certified to NSF®/ANSI 61 & 372. Model S2400C is used in modular form to build larger models.

- When used as directed to disinfect clear water, Atlantic Ultraviolet Corporation® water purifiers provide an ultraviolet dosage in excess of 30,000 micro-watt seconds per square centimeter (µWSec/cm²).
- This list depicts options for 120v 50/60Hz operation. Consult factory for options with other power requirements.