

# Ultimate™

GERMICIDAL ULTRAVIOLET WATER PURIFIERS

Atlantic Ultraviolet Corporation

AtlanticUltraviolet.com – Ultraviolet.com

## The Ultimate Solution for Residential and Recreational Applications

The **Ultimate™** Ultraviolet Water Purifier utilizes a germicidal ultraviolet lamp that produces ultraviolet wavelengths lethal to bacteria, viruses and other microorganisms present in water.

Economical and safe, the **Ultimate™** Ultraviolet Water Purifier offers rapid water treatment without the use of heat or dangerous chemicals—often for the lowest cost available by any means.

**Ultimate™** Ultraviolet Water Purifiers produce gallons per minute of purified drinking water.

### Residential and Recreational Applications

- point of use installation
- whole house purification
- well water disinfection
- water cistern sterilizers
- rural water systems
- fish ponds
- koi ponds
- water gardens
- ornamental ponds
- aquariums



**ATLANTIC ULTRAVIOLET CORPORATION®** SINCE 1963

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**LOW  
COST  
HIGH  
VALUE**

**Ultimate™**  
Ultraviolet Water  
Purifier  
Model U9  
120v, 9 gallons  
per minute

# Ultimate™

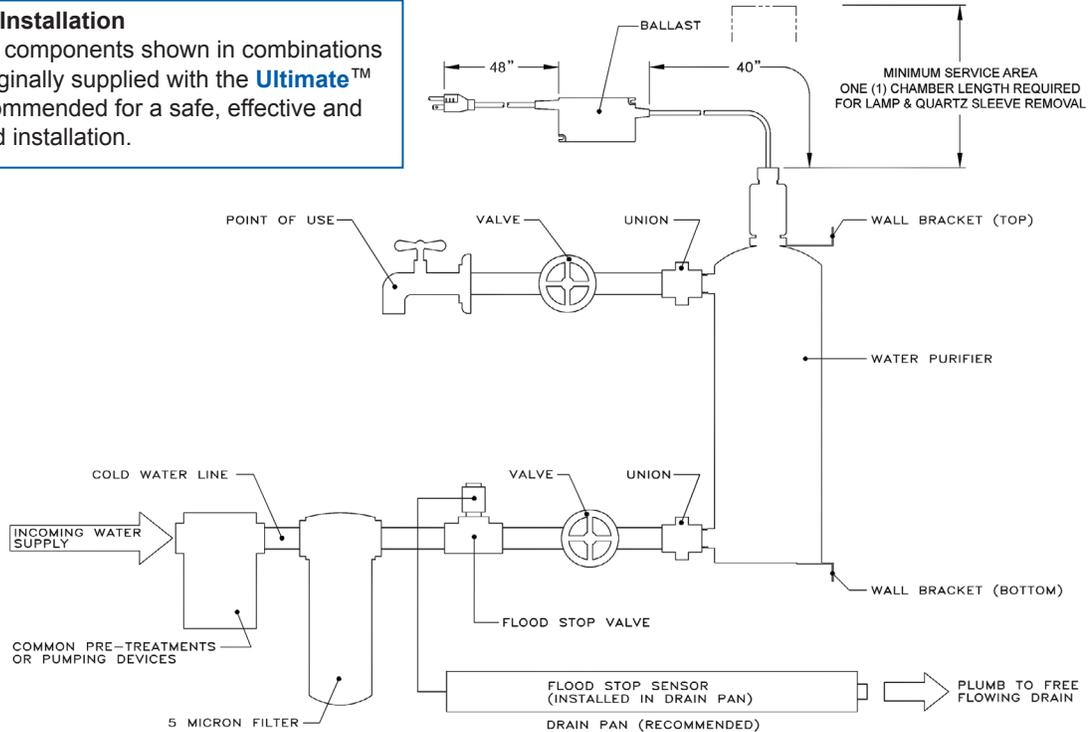
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Installation

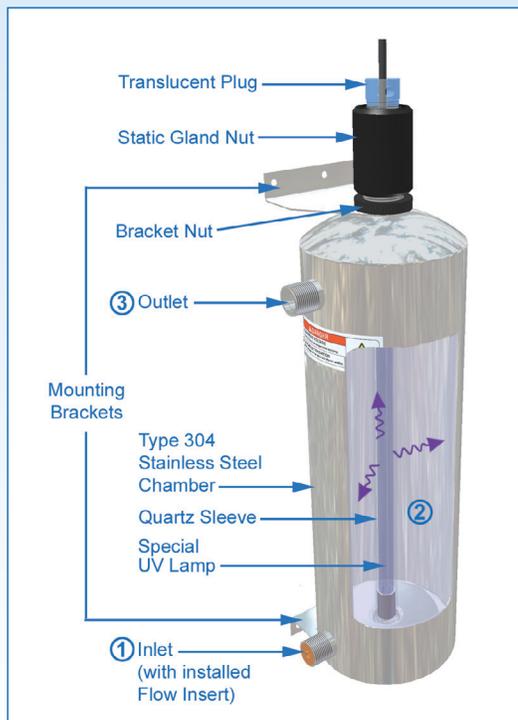
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## Recommended Installation

Note: The use of components shown in combinations below but not originally supplied with the **Ultimate™** System, are recommended for a safe, effective and easily maintained installation.



## Principle of Operation



### Step 1

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

### Step 2

Within the chamber, water is exposed to intense germicidal ultraviolet rays.

### Step 3

Water leaving the purifier is instantly ready for use.

### Ultimate Electronic Ballast (not shown)

Green and red LED indicates status. Alarm sounds if the lamp is not working.

## Advantages

**Effective** – All microorganisms are susceptible to **Ultimate™** ultraviolet disinfection. Effluent meets or exceeds United States Public Health Standards for bacterial purity.

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

**Easy** – Simple installation and maintenance. Compact units require minimum space.

**Automatic** – Provides continuous or intermittent disinfection without special attention or measurement.

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

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### **Stainless Steel Construction**

Chamber is electropolished and passivated stainless steel type 304 for dependable service and attractive finish.

### **Fused Quartz Sleeve**

Ensures optimum lamp output at normal potable water temperatures.

### **Mounting Brackets**

Includes a set of stainless steel type 304 mounting brackets. Brackets are used to mount unit in vertical position.

### **Flow Control Valve (Built-In)**

Limits water flow to the rated capacity through the **Ultimate™** Ultraviolet Water Purifier.

### **Translucent Plug**

Provides positive indication of germicidal lamp operation.

### **Special Lamp**

Germicidal ultraviolet lamp made exclusively for the **Ultimate™** has an end-cap with Teflon® coating on one end.

### **Ultimate™ Electronic Ballast**

Includes an LED that provides visual indication (Green and Red LED Indicators) of the germicidal ultraviolet lamp operation and an Audio Alarm that alerts the user to lamp failure.

### **Grounding Wire Kit**

Attaches to the water purifier on one end and the other end to copper (or other metal) water pipe to ensure safety.



## Specifications

Models Series	Gallons Per Minute	Gallons Per Hour	Inlet/Outlet Size	Unit Dimensions (Inches)		
				Length	Diameter	Height
U4/120V	4	240	3/4" NPT	4-15/16"	3-7/8"	17-5/8"
U7/120V	7	420	3/4" NPT	6-13/16"	5-3/4"	17-7/8"
U9/120V	9	540	3/4" NPT	6-13/16"	5-3/4"	22-1/16"

- Maximum recommended operating pressure for all purifiers is 100 PSI.
- Pressure drop at maximum recommended flow rate is 5 PSI or less.

When used as directed to disinfect clear water, **Ultimate™** Water Purifiers provide an ultraviolet dosage in excess of 30.0 millijoules per square centimeter (mJ/cm<sup>2</sup>).

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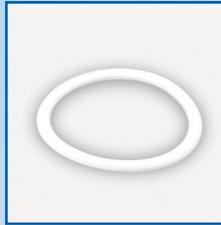
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## Replacement Parts

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**Quartz Sleeve**



**Teflon Washer**  
00-0229A



**Grounding Kit**  
35-8300A



**Ballast with Plug**  
10-0505B



**Bracket Nut**  
25-8106B



**Wall Bracket**  
**Top:** U7, U9, U15  
25-8111B  
**Bottom:** U7, U9, U15  
25-8112A



**O-Ring**  
00-8300A



**Static Gland Nut**  
25-8105D



**Wall Bracket**  
**Top:** U4  
25-8108B  
**Bottom:** U4  
25-8107A

## Germicidal Ultraviolet Lamp Data



Shown: **Ultimate™** lamp end-cap with Teflon® coating.

Lamp Number	Purifier Model No.	Lamp Watts ③	Ultraviolet Output		Effective Life (Hours)
			Total Watts ①	Microwatts at One Meter ②	
05-0640A	U4/120V	17	5.7	58	10,000
05-0640A	U7/120V	17	5.7	58	10,000
05-0641A	U9/120V	22	7.5	75	10,000

All **Ultimate™** Water Purifiers employ low pressure ultraviolet germicidal lamps that afford maximum efficiency, low power requirements and long lamp life in producing the required germicidal rays.

- ① Maximum rated output at 254 nanometers at 100 hours and 80° F (Approx).
- ② Microwatts per square centimeter at one meter from lamp
- ③ Lamp watts only, does not include power supply loss.

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: [www.lamprecycle.org](http://www.lamprecycle.org).