



Model 1020  
6 GPM

Model 2020  
8 GPM

Model 3020  
12 GPM

Model 5020  
20 GPM

## Power Supply

### Neptune™ Models 1020, 2020, 3020 & 5020

Electronic, plug-in style power supply that includes an LED lamp indicator and audible alarm.



## Features

### Stainless Steel Construction

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

### Fused Quartz Sleeve

Insures optimum lamp output at normal potable water temperatures.

### Mounting Brackets

Includes upper and lower stainless steel type 304 mounting brackets. Brackets can be used to mount unit.

### Flow Control Valve

Limits water flow to the rated capacity through the Neptune™ water purifier.

### Indicator LED

LED on power supply provides visual indication of germicidal lamp operation.

### Translucent Lamp Indicator

Provides positive indication of Germicidal lamp operation.

### Lamp Cushion

Installed in the quartz sleeve. Will help to prevent damage to the quartz sleeve if the lamp were to be dropped into the quartz sleeve.

### Surge Protector

Offers powerful surge protection to connected equipment. Plugs conveniently into any wall outlet.

### Audio Alarm

Alerts the user to lamp failure. (Included in **Power Supply** of certain models.)

### Countdown Timer

Battery operated device has audible alarm to alert when lamp needs to be replaced. Adhesive back enables it to be adhered to most surfaces, and small size allows for install at any convenient location.



## Specifications



## Germicidal Ultraviolet Lamp Data

| Model Series/<br>Model No. | GPM | GPH  | Inlet/Outlet<br>Size | Unit Dimensions |          |        | Lamp<br>Number | ③<br>Lamp<br>Watts | Ultraviolet Output  |                                      | Effective<br>Life<br>(Hours) |
|----------------------------|-----|------|----------------------|-----------------|----------|--------|----------------|--------------------|---------------------|--------------------------------------|------------------------------|
|                            |     |      |                      | Length          | Diameter | Height |                |                    | ①<br>Total<br>Watts | ②<br>Micro-<br>watts at<br>One Meter |                              |
| 1020                       | 6   | 360  | 3/4"                 | 16-11/16"       | 3-7/8"   | 4-7/8" | 05-0293        | 17                 | 5.0                 | 51                                   | 10,000                       |
| 2020                       | 8   | 480  | 3/4"                 | 17-1/8"         | 5-3/4"   | 6-3/4" | 05-0293        | 17                 | 5.0                 | 51                                   | 10,000                       |
| 3020                       | 12  | 720  | 3/4"                 | 21-3/8"         | 5-3/4"   | 6-3/4" | 05-0294        | 21                 | 6.6                 | 62                                   | 10,000                       |
| 5020                       | 20  | 1200 | 1"                   | 35-5/8"         | 5-3/4"   | 6-3/4" | 05-0319        | 38                 | 13.1                | 115                                  | 10,000                       |

- Maximum recommended operating pressure for all purifiers is 125 PSI.
- Pressure drop at maximum recommended flow rate is 5 PSI or less.

All Neptune™ 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.

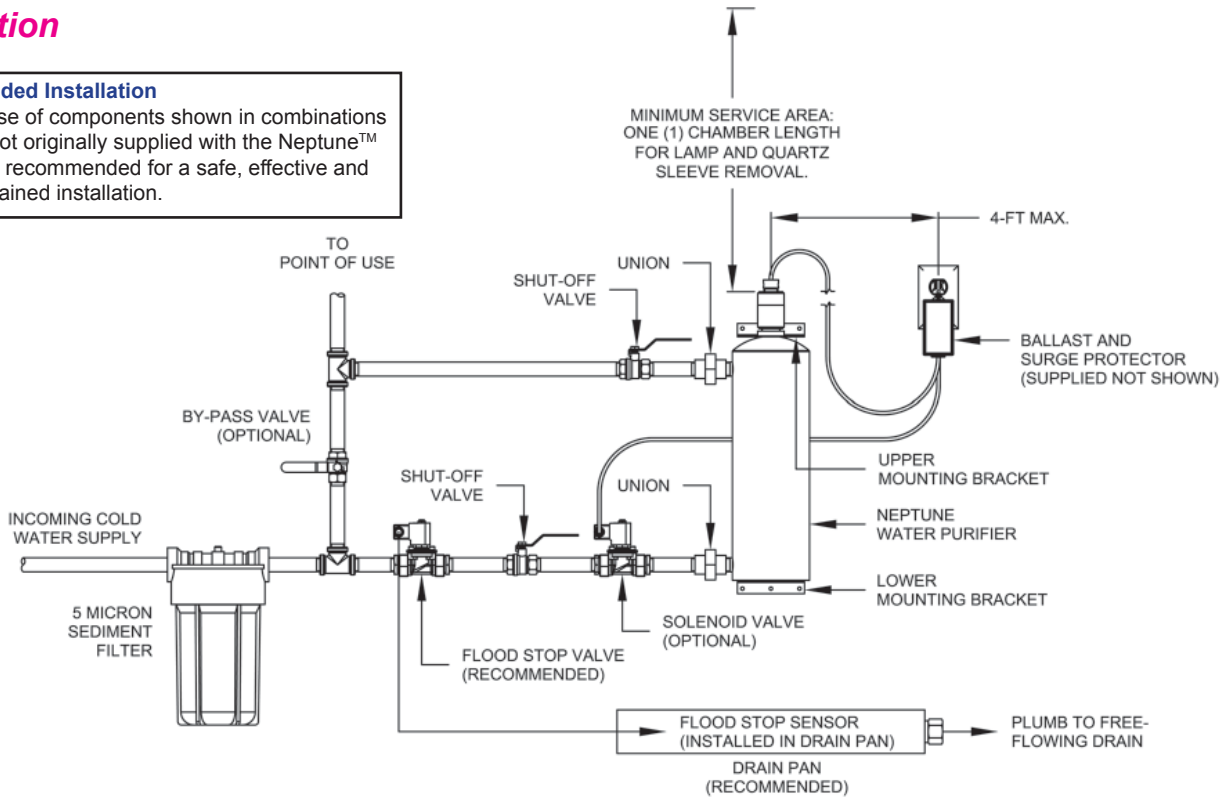
**CAUTION:** Exposure to direct or reflected germicidal ultraviolet rays will cause painful eye irritation and reddening of the skin. Personnel subject to such exposure must wear suitable faceshield, gloves and protective clothing. Hg - LAMP CONTAINS MERCURY, manage in accord with disposal laws, see: [www.lamprecycle.org](http://www.lamprecycle.org).

- 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.

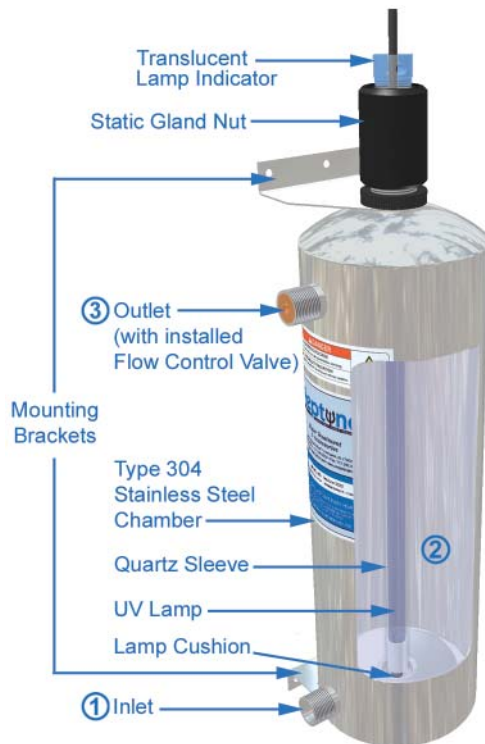
## Installation

### Recommended Installation

Note: The use of components shown in combinations below, but not originally supplied with the Neptune™ 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 radiation.

### Step 3

Water leaving the purifier is instantly ready for use.

### (not shown)

Power supply with LED indicator light provides visual indication of germicidal lamp operation.

## Advantages

### Effective

All micro-organisms are susceptible to Neptune™ 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.