



# SYS700

## Water Treatment System

### Description

The SYS700 is an All-in-One Water Treatment System that is sized for the needs of the average household (up to 6 people) to provide complete purified drinking water for domestic use. Typically installed at the point of entry, it is used for treating municipal water as well as ground water from drilled or dug wells, and surface water from lakes, ponds or rivers. It will purify the water from most contaminants such as sediments, rust and pesticides with filtration down to 5 micron. Carbon filtration reduces taste and odour, including sulphur smell and chlorine residuals, as well as cysts. Harmful microorganisms such as viruses, bacteria and protozoa are killed with a powerful UV disinfection dose that will inactivate the pathogens at a kill rate of > 99.99% (log4) (*Giardia*, *E. coli*, *Cryptosporidium*, *Vibria cholera*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others)

This purifier comes equipped with an electronic ballast that features an alarm system which sounds an audible alarm if the UV lamp is not functioning properly.

All installation hardware (mounting bracket, filter wrench and flexible S-pipe for the connection between filtration and UV) are supplied with the system. Shutoffs are not supplied and are optional, depending on the plumbing set-up.

This residential water purification system offers very efficient water treatment at a low cost per unit volume. The system is designed for ease of installation and is fully tested prior to shipment.



Similar to image.  
Shutoffs shown are not supplied

### Features

- ▶ Chemical-Free Water Treatment
- ▶ Robust Construction, Pre-Assembled
- ▶ 20" SlimLine Sediment + Carbon Filtration
- ▶ Filter Housings w/ Pressure Relief Valves
- ▶ 304L SS Ultra-Violet Sterilizer
- ▶ Electronic Ballast with Lamp-Out Alarm



The system ships complete with all necessary components and installation hardware

### Benefits

- ▶ Efficient Disinfection, Low Cost per Litre
- ▶ High UV Dose for Peace of Mind
- ▶ Extremely Simple to Use and Maintain
- ▶ Pre Assembled Filter Set for Easy Installation
- ▶ Ideal for Use in Households up to 6 People

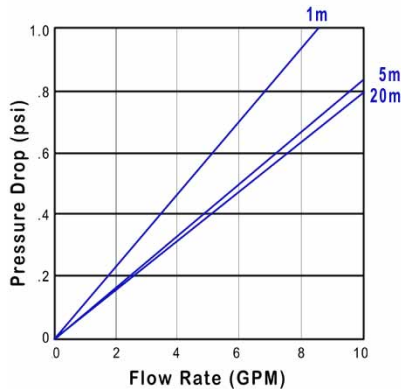


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| <b>Rated Flow:</b>                              | 30 litres per minute (8 GPM)<br>1,800 litres/hour, 43.2 m <sup>3</sup> /day<br>(480 gallons/hour, 11,520 gallons/day)            |
| <b>Initial UV Dose at Rated Flow:</b>           | 62 mJ/cm <sup>2</sup> (62,000 µsec/cm <sup>2</sup> ) @ 95% UVT<br>43 mJ/cm <sup>2</sup> (43,000 µsec/cm <sup>2</sup> ) @ 70% UVT |
| <b>Electrical:</b>                              | 110-130 Volt AC / 50-60 Hz (Part # SYS700/QD4E-1)<br>220-240 Volt Ac / 50-60 Hz (Part # SYS700/QD4E-2)                           |
| <b>Power Consumption:</b>                       | 53 VA @ 120 V, 66 VA @ 240 V   |
| <b>Ballast:</b>                                 | Electronic Ballast (Part # 4-BE-425W-U)<br>w/ Lamp Out Alarm, Power LED  |
| <b>Replacement Lamp:</b>                        | Low-Pressure UV Lamp, Part # RL-40/867T5   |
| <b>Filtration:</b>                              | 20" SlimLine (L 20", OD 2-1/2"), w/ Pressure Relief  |
| <b>Stage 1, Sediment Filter:</b>                | Melt-Blown Polypropylene ("Spun Poly"), 5 Micron   |
| <b>Stage 2, Carbon Filter:</b>                  | Coconut Shell Carbon ("Extruded Carbon Block")   |
| <b>Connection betw. UV and Filter (S-Pipe):</b> | SS Flexible Hose (Part # 10-FF36)  |
| <b>Max. Operating Temperature:</b>              | 37 °C (98.6 °F)  |
| <b>Max. Operating Pressure:</b>                 | 125 psi - 8.6 bar (tested to 500 psi)  |
| <b>Plumbing:</b>                                | 3/4" MNPT In/Out   |
| <b>Shipping Size and Weight:</b>                | 1 box 45x7x7 inches, 12 lbs / 5.5 kg<br>1 box 26x17x7 inches, 16 lbs / 7.3 kg  |

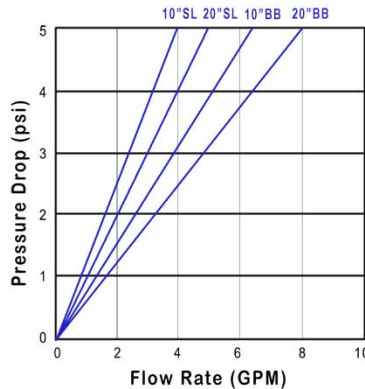
## Pressure Drop Charts

The filter cartridges in this system have a great surface area for long life and reduced filtration costs.

### Sediment Filter



### Carbon Block Filter



## Additional Features (Optional):

- Electronic Deposit Control System with PVC or Stainless Reaction Chamber
- Additional Sediment Filtration with Spin Down Separator for Lake Water Applications
- Purge Valve at Out Port for Overheat Protection
- Ballast with Hour Meter for Total Runtime Display

## Filtration

This UV System comes equipped with dual pre-filtration. The water first enters the sediment filter housing, where a sediment filter cartridge (made from melt-blown Polypropylene) removes dirt, rust and other sediments down to 5 micron (cartridge Part # 14-WFS20-5SP). This is followed by a second filter housing with a carbon block filter cartridge at 10 micron (made from Coconut Shell Carbon), which removes chlorine, taste and odour from the water (cartridge Part # 14-WFC20-5CB). Additional filtration stages can be installed, such as a self-cleaning Spin Down Separator that keeps the filter cartridges from clogging up if elevated sediment levels are present (Part # 14-WFS-15SC). The filter cartridges are NSF certified and have an excellent chemical resistance in all food and beverage purification applications and a low pressure drop.

