



SYS1400-POU

All-in-One Water Treatment System

Description

The model SYS1400-POU is an All-in-One Water Treatment System that is sized for the needs of the larger household (up to 10 people) to provide complete purified water. This system is popular for small commercial use as well, installed at the point of use.

The system treats 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 microbiological contaminants, 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*, *Vibrio cholerae*, *Legionella*, *Salmonella*, *Shigella*, *Streptococcus* and many others).

The 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. The system remembers when it is time to install a new UV replacement lamp with an automatic countdown display and alarm.

All components of this system are pressure-tested and pre-assembled on a stainless steel panel. It is easy to install and maintain and can be upgraded with optional components for many different water treatment applications.



Features

- ▶ **Chemical-Free Water Treatment**
- ▶ **Robust Construction, Pre-Assembled**
- ▶ **316L SS Ultra-Violet Sterilizer**
- ▶ **Electronic Ballast with Lamp-Out Alarm, Day Count on Digital Display**
- ▶ **10" BigBlue Filtration in 2 Stages**
- ▶ **Filter Housings with Pressure Gauges**
- ▶ **Many Optional Components**
- ▶ **Mounted on Stainless Steel Panel**

Benefits

- ▶ **Safe Drinking Water at Low Cost per Litre**
- ▶ **High UV Dose for Peace of Mind**
- ▶ **Extremely Simple to Use and Maintain**
- ▶ **Fully Assembled for Easy Installation**
- ▶ **Ideal for Use in Large Residential and Light Commercial Applications**
- ▶ **Made in Canada**



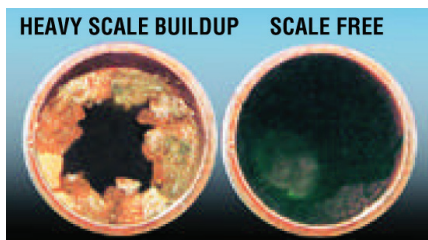
Flow Range (limited by filter selection):	Up to 53 litres per minute (14 GPM) 3,180 litres/hour, 76.3 m ³ /day (840 gallons/hour, 20,160 gallons/day)
Initial UV Dose at Max. Flow (95% UVT):	40 mJ/cm ² (40,000 μWsec/cm ²) @ 53 LPM / 14 GPM
Electrical:	110 Volt AC / 50 - 60 Hz (Part # SYS1400-POU-1) 240 Volt AC / 50 - 60 Hz (Part # SYS1400-POU-2)
Ballast:	Electronic Ballast w/ Lamp Out Alarm, Power LED, Running Days Countdown on LCD Display (Resettable) Model RH51-800-95L (Wyckomar Part # 4-BE800-14/30ECO)
Replacement Lamp:	Low-Pressure UV Lamp, Part # RL-51/540T5
Filtration:	10" BigBlue (L10", OD 4-1/2"), w/ Pressure Gauges
Stage 1, Sediment Filter:	Melt-Blown Polypropylene, 5 Micron
Stage 2, Carbon Filter:	Coconut Shell Carbon ("Extruded Carbon Block") for High Chlorine Reduction
Min/Max. Operating Temperature:	T _{min.} = 3 °C (37 °F), T _{max.} = 40 °C (104 °F)
Max. Operating Pressure:	125 psi - 8.6 bar
Plumbing:	1" MNPT In/Out Manual Shutoff Ball Valves on In/Out Ports
Shipping Size and Weight:	1 box. 30x27x10 inches, 50 lbs / 22.7 kg

Specifications subject to change

Optional Features

This system comes by default with filtration and ultra-violet disinfection for the treatment of drinking water from many sources. Additional features can easily be added to make it into a customized water purification system for any kind of application and for the removal/reduction of almost any kind of contaminant.

Hardness - This system works well in cooperation with a commercial style softener, but for those applications where salt is not wanted, an electronic scale deposit controller can be added to the panel. The device will condition the calcium and magnesium molecules, preventing lime build-up in plumbing and appliances.



Monitoring System - For those applications that require fail-safe operation, a monitoring system can be added. This consists of a sensor that measures the intensity of the UV light in realtime, and displays it on a meter face on the monitor. In case the intensity goes below the recommended dosage for drinking water, the monitor can trigger a solenoid valve to shut off the flow of water until the problem has been rectified.

UV Monitor
(Part # 4-UV/MS-1/2 V3)



Special Filtration - If other contaminants are present, such as Arsenic, Fluoride, Nitrate or other pollutants, or if the pH needs to be adjusted, additional filtration levels can easily be added to this system.

Plug & Play

This Integrated UV System is pre-assembled and pressure tested at the factory and will work right out of the box. The sturdy stainless-steel construction and the attractive panel-mounted design allow for easy installation and ensure many years of faithful service. All components are placed so they can be easily maintained and cleaned.