

# UV-7-20JPL20-PS1 System

3 Stage Complete - Ultra Violet Water Sterilizer & Filtration

Pure Zone

For Pure Clean Water

## Description

The PureZone UV-7 Systems incorporate our best-selling ultra-violet steriliser designed for the disinfection of drinking water in the average household at a flow rate of 56 LPM (30mJ/cm<sup>2</sup>). Typically installed at the point of entry, it can treat municipal water as well as ground water from drilled or dug bores, and surface water from lakes, ponds or rivers. While the UV700 kills most harmful pathogens such as viruses, bacteria and protozoa with a powerful UV disinfection dose that will inactivate the pathogens at a kill rate of 99.99% (log 4) or more (Giardia, E. coli, Cryptosporidium, Vibria cholera, Legionella, Salmonella, Shigella, Streptococcus and many others - please see dose inactivation chart), the pre-filters will also purify most contaminants such as sediments, rusts, Cysts and pesticides (CB version only). The post carbon filter in the CB systems also reduces bad tastes, and odours.



This steriliser contains a low-pressure, high output UV lamp in a 304L stainless steel reaction chamber (also available in 316L). It comes with electronic ballast that features a lamp-out alarm if there is no power to the lamp.

The pre-filtration element comes in one, two or 3 stages and uses quality components and includes sturdy Polypropylene housings with stainless steel mounting brackets and screws, plus an opening spanner.

A number of cartridge options are available, from the economy version - one cartridge polypropylene dual grade 20/1 to the robust 3 stage cartridge system with 20 micron, 1 micron and a final stage carbon filter.

Distributed by:

**AQUA**  
Dynamics  
"Water Treatment Specialists"

## Features

- ➔ Chemical Free Water Treatment
- ➔ Quality Components
- ➔ Sediment + Giardia Safe Cartridge
- ➔ Carbon Filtration optional
- ➔ 304L Stainless Steel
- ➔ View Port for visual affirmation of lamp working
- ➔ Optional Additions
  - PureZone Countdown Ballast or
  - 
  - Thermo Sensitive Purge Valve
  - UV Dose Monitor
  - Volt Free contacts for Remote Signalling

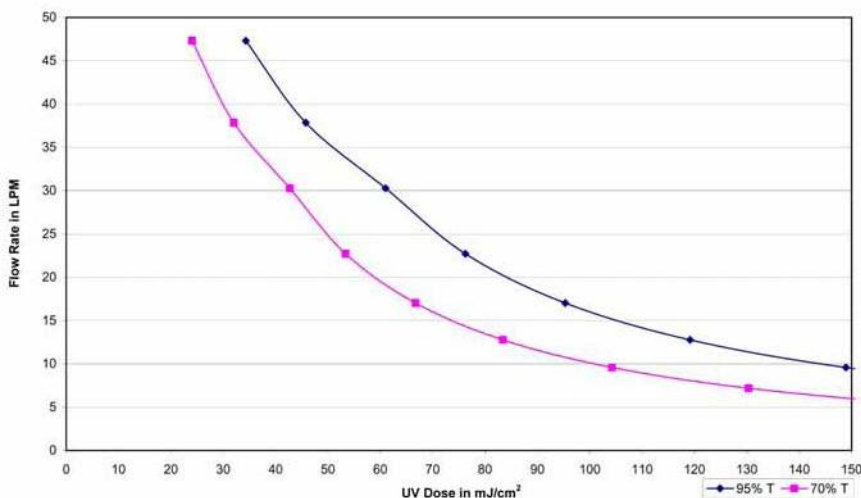
## Benefits

- ➔ Efficient Disinfection, low cost per litre
- ➔ High UV Dose
- ➔ Easy Installation
- ➔ Simple to use and maintain
- ➔ Easy Lamp replacement
- ➔ High Quality Stainless steel chamber
- ➔ Domed Sleeve with single seal
- ➔ Manufactured in Canada

# UV Specifications

<b>Rated Flow</b>	56 Litres per Minute
<b>Initial UV Dose @ Rated Flow (95% UVT)</b>	100LPM – 16 mJ/cm <sup>2</sup> <b>56LPM – 30 mJ/cm<sup>2</sup></b> 42LPM – 40 mJ/cm <sup>2</sup>
<b>Electrical</b>	220-240 Volt AC / 50-60 Hz (Part UV700L)
<b>Power Consumption</b>	66 VA @ 240 V
<b>Ballast</b>	Electronic Ballast (Aqua Part# UV700-BAL ) Wyckomar Part # 4-BE-425W-U c/w Lamp our Audible Alarm, Power LED
<b>Lamp Wattage &amp; Current</b>	40 Watts, 425 mA
<b>UV Monitor</b>	Optional (Part UVMONITOR)
<b>Solenoid Valve</b>	Optional
<b>Hour Meter</b>	Optional (Part UVHOURMETER)
<b>Max Operating Temperature</b>	34°C
<b>Max Operating pressure</b>	125 psi – 8.6 bar
<b>Plumbing</b>	¾" MNPT In/Out
<b>Chamber Material</b>	304L Stainless Steel (316L SS Optional on request)

## Dose Chart – UV700 Dose Response Curve



## Additional Optional Features

- Electronic Deposit Control System with PVC or Stainless Reaction Chamber
- Volt Free Contacts on Ballast for Remote Signalling
- Purge Valve on Out Port for Overheat Protection
- Ballast with Hour Meter for Total Runtime Display


## Filtration

All PureZone UV700 Systems come equipped with 1, 2 or 3 stage filtration. To remove any sediment which may inhibit the effectiveness of the UV Lamp, the water first passes through a 20 micron pleated sediment filter, and is usually followed by a 1 micron Polyspun (2 and 3 stage filter systems only) which is will remove protozoa cysts such as Giardia and Cryptosporidium. The 3 stage filter systems then have a 3<sup>rd</sup> carbon block cartridge which will remove chlorine, taste and odour from the water before being used.




UV7-20JMG251	2	20" Jumbo	20 / 1 Micron	UV700 Steriliser	N/A	N/A
UV7-20JPL20-PS1	3	20" Jumbo	20 Micron Pleated	1 Micron Polyspun	UV700 Steriliser	N/A
UV7-20JPL20-PS1-CB10	4	20" Jumbo	20 Micron Pleated	1 Micron Polyspun	UV700 Steriliser	10 micron Carbon Block

NB: The below systems are our 3 most popular for the UV700. There are other options, to suit your application if required.

## Housing Specifications

<b>Housing Material</b>	Polypropylene	
<b>Max Operating Temperature</b>	37.7°C	
<b>Max Operating pressure</b>	90 psi – 6.21 bar	
<b>O-ring</b>	Buna-N	
<b>Plumbing</b>	1" MNPT In/Out	
<b>Replacement Cartridge Size</b>	Height – 20" Width – 4 1/2"	

## Cartridge Specifications

	20JPL20	20JPS1	20JCB10
			
<b>Filter Medium</b>	100% Non Woven Polyester	Polypropylene	Outer Wrap - Polypropylene Carbon – Coconut Shell
<b>End-Caps</b>	2 Pot Urethane – Blue Pigment	N/A	Polypropylene
<b>Centre Core</b>	Polypropylene	N/A	N/A
<b>Temperature Range</b>	4.4°C > 62.8°C	4.4°C > 62.8°C	4.4°C > 82.2°C
<b>Length</b>	20"	20"	20"
<b>Width</b>	4-1/2"	4-1/2"	4-1/2"
<b>Internal Hole</b>	Double Open Ended – 100mm	Double Open Ended – 100mm	Double Open Ended – 100mm
<b>Micron Rating</b>	20µ Nominal	1µ Nominal	10µ Nominal
<b>Initial ΔP (PSI) @ Flow Rate</b>	1.0 PSI @ 38LPM	1.0 PSI @ 28LPM	4.0 PSI @ 16 LPM
<b>Reduces</b>	Medium Sediment Removal	Fine Sediment Removal Cysts (Giardia / Cryptosporidium)	Bad Taste and Odour Removal
<b>Recommended Optimal Flow Rate</b>	75-115 LPM	75-115 LPM	75-115 LPM

## Miscellaneous Component Specifications

<b>Mounting Bracket</b>	304 Stainless Steel 
<b>Coach Screws</b>	304 Stainless Steel 
<b>Opening Spanner</b>	Plastic 