

# CONTRACTOR SERIES

BUILT TO LAST

**NELSEN**<sup>™</sup>  
WATER SOLUTIONS  
UV Sterilizer  
Power by Luminor



## RUGGED & DURABLE UV DISINFECTION SYSTEMS

**MODELS: NWS-UVC4-10, NWS-UVC4-15,  
NWS-UVC4-Z1, NWS-UVC4-Z2**

UV technology is proven to control microbiological (bacteria & virus) issues in water including *E.coli*, *Cryptosporidium* and *Giardia lamblia*.

Intended for easy, do-it-yourself installation, a NWS-UVC4 system can be installed on the home's main water line at the point-of-entry, treating all the water coming into the home.

Designed to effectively treat flow rates from 8 to 15 gpm, Nelsen Water Solution's axial flow and rack systems offer the quality, flexibility and convenience that you require for all of your residential and light commercial applications.

### PRODUCT FEATURES

- 10 and 15 gpm axial flow system, 8 and 15 gpm rack system with single 10" and 20" sump
- 304 SS LPHO-based system (LPSO on NWS-UVC4-Z1)
- Integral lamp life monitor, with both audible and visual indication of lamp life
- Reliable, industry proven, proprietary low pressure coated UV lamps with ceramic bases for durability and long life (10,000 hours on HO systems, 9,000 hours on SO systems)
- Constant current electronic controller in a splash proof case, fully potted ballast virtually eliminates common water damage issue
- 110-230V/50-60Hz.

**NWS-UVC4-10 series**, for flow rates of 10 gpm (38 lpm)  
**NWS-UVC4-15 series**, for flow rates of 15 gpm (57 lpm)  
**NWS-UVC4-Z1 series**, for flow rates of 8 gpm (30 lpm)  
**NWS-UVC4-Z2 series**, for flow rates of 15 gpm (57 lpm)

## EQUIPMENT SPECIFICATIONS

Model	NWS-UVC4-10	NWS-UVC4-15	NWS-UVC4-Z1	NWS-UVC4-Z2
Flow Rate (30mJ/cm <sup>2</sup> @ 95% UVT)	10 GPM	15 GPM	8 GPM	15 GPM
	37.9 lpm	56.8 lpm	30.3 lpm	56.8 lpm
	2.3 m <sup>3</sup> /hr	3.4 m <sup>3</sup> /hr	1.8 m <sup>3</sup> /hr	3.4 m <sup>3</sup> /hr
Filter Housing	N/A	N/A	5 micron sediment <b>NWS-105S</b>	5 micron sediment <b>NWS-205S</b>
Port Size	1" MNPT		1" MNPT	
Electrical	90-265V/50-60Hz.			
Plug Type	American, NEMA 5-15			
Lamp Watts	34	45	20	45
Power (Watts)	38 (36 @ 230V)	57 (48 @ 230V)	23 (21 @ 230V)	57 (48 @ 230V)
Maximum Current (amps)	1	1	1	1
Replacement Lamp	NWTS-UV-330H0	NWTS-UV-420H0	NWTS-UV-420	NWTS-UV-420H0
Replacement Sleeve	NWTS-UV-Q330	NWTS-UV-Q420	NWTS-UV-Q420	
Replacement Controller	NWTS-UV-HO-NE		NWTS-UV-NE1	NWTS-UV-HO-NE
Chamber Material	Polished 304 stainless steel, A249 pressure rated tubing			
Reactor Dimensions	3.5 x 16.5" (8.9 x 41.8cm)	3.5 x 20.0" (8.9 x 50.8cm)	3.5 x 20.0" (8.9 x 50.8 cm)	
Controller Dimensions	8.6 x 4.2 x 4" (21.7 x 10.8 x 10.2 cm)		6.8 x 3.6 x 4" (17.2 x 9.2 x 10.2 cm)	8.6 x 4.2 x 4" (21.7 x 10.8 x 10.2 cm)
Operating Pressure	0.7-10.3 bar (10-150 psi)		0.7-8.3 bar (10-120 psi)	
Operating Water Temp.	2-40° C (36 - 104°F)			
Lamp Change Reminder	YES (4-digit LED display)			
Visual Lamp Out Indicator	YES			
Audible Lamp Out Indicator	YES			
Shipping Weight	5.4 kg (11.9 lbs)	6.0 kg (13.2 lbs)	11.3 kg. (25 lbs.)	12.4 kg. (27.4 lbs.)

## CONDITIONS FOR USE

The system will provide years of use provided the system is maintained on a regular basis as per the specifications outlined in the Owner's Manual. For the system to perform as tested, the following water quality parameters must be met.

PARAMETER	LEVEL
Hardness	< 120 mg/L (7 gpg)
Iron (Fe)	< 0.3 mg/L (ppm)
Manganese (Mn)	< 0.05 mg/L (ppm)
Tannins	< 0.1 mg/L (ppm)
Turbidity	< 1 NTU
Transmittance	> 75% UVT

For levels outside those specified in the table above, please contact the factory for further technical assistance.

### Manufacturer's Warranty

**REACTORS** - Ten (10) year Limited Warranty  
**ELECTRONICS** - Three (3) year Limited Warranty  
**UV LAMPS** - One (1) year Limited Warranty  
**QUARTZ SLEEVES** - One (1) year Limited Warranty



Visit website for complete warranty document including conditions and exclusions.



Norton, Ohio - (800) 362-9686  
 3250 Barber Rd., Norton, OH 44203  
 Goodyear, Arizona - (866) 445-4299  
 14035 West El Cielo, Goodyear, AZ 85338  
 Schertz, Texas - (855) 674-0357  
 1012 Assembly Circle - # 100, Schertz, TX 78154  
 Tampa, Florida - (866) 712-6796  
 4410 E. Adamo Dr. Suite 102, Tampa, FL 33605  
 Ft. Myers, Florida  
 16810 Oriole Road - Suite 5, Ft. Myers, FL 33912



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