

Water for Life Model 833-UV Features

- ❖ **Five stages of protection**
to assure the health and safety of your family.
- ❖ **Patent pending “Bracketed UV” technology**
5 stages to prevent recontamination and extend filter life.
- ❖ **UV dosage exceeds NSF Standards**
90 watts UV to safeguard against virile microorganisms.
- ❖ **Teflon coated UV killing chamber**
for ongoing maximum dosage and lowest maintenance.
- ❖ **UV power idle mode**
for minimum power consumption.
- ❖ **UV safety monitor and remotable status panel**
for maintenance reminders and UV protection loss warning.
- ❖ **Easy installation**



Performance

All Water for Life UV whole house systems impart a dosage of 80,000 uW sec/cm² (microwatt-second per square centimeter) @ 2537 angstrom at 8 gpm

Table of energy needed to kill 99.9% of organisms

<u>Bacteria</u>				<u>Mold Spores</u>	
Agrobacterium tumefaciens	8500	Pseudomonas aeruginos (laboratory strain)	3900	Mucor ramosissimus (<i>white gray</i>).....	35200
Bacillus anthracis.....	8700	Pseudomonas aeruginosa		Penicillum expensum (<i>olive</i>)	22000
Bacillus megaterium (vegetative)	2500	(<i>environmental strain</i>)	10500	Penicillum roqueforti (<i>green</i>).....	26400
Bacillus megaterium (spores).....	52000	Rhodospirillum rubrum	6200		
Bacillus subtilis (vegetative).....	11000	Salmonella entertidis	7600	<u>Algae</u>	
Bacillus subtilis (spores).....	58000	Salmonella paratyphi (<i>enteric fever</i>).....	6100	Chlorella vulgaris (<i>algae</i>).....	22000
Clostridium tetani	22000	Salmonella typhimurium	15200		
Corynebacterium diptherice.....	6500	Salmonella typhosa (<i>typhoid fever</i>)	6000	<u>Viruses</u>	
Eschericnia coli.....	8000	Sarcina lutea	26400	Bacteriophage (<i>E call</i>).....	6600
Legionella bozemanii.....	3500	Seratia marcescens	6200	Hepatitis virus.....	8000
Legionella dumoffii.....	5500	Shigella dysenteriae (<i>dysentery</i>)	4200	Influenza virus.....	6600
Legionella gormanii.....	4900	Shigelia flexneri (<i>dysentery</i>).....	3400	Poliovirus (<i>poliomyelitis</i>).....	21000
Legionella micdadei.....	3100	Shigella sonnei	7000	Rotavirus.....	24000
Legionella longbeachae.....	2900	Staphylococcus epidermidis.....	5800		
Legionella pneumophilia.....	3800	Staphylococcus aureus	17000	<u>Yeast</u>	
Leptospira interrogans		Streptococcus faecalis	10000	Baker's yeast.....	2800
(infectious jaundice)	6000	Streptococcus hemolyticus	5500	Brewer's yeast	6600
Mycobacterium tuberculosis.....	41000	Streptococcus lactis.....	8800	Common yeast cake	13200
Neisseria catarrhalis.....	8500	Viridans streptococci	3800	Saccharomyces var. ellipicidjeus.....	13200
Proteus vulgaris.....	6600	Vibrio cholerae.....	6500	Saccharomyces ap.....	17800

National Sanitation Foundation guidelines for UV disinfection equipment recommend a minimum UV dosage of 40,000 uW sec./CM²

Pre-filter and 2-stage Carbon Filters

The patented, extruded activated carbon block and charcoal filters are designed for maximum removal of:

- | | |
|---|---|
| <ul style="list-style-type: none"> ❖ Chlorine ❖ Lead and other heavy metals ❖ Chemicals and VOCs | <ul style="list-style-type: none"> ❖ Herbicides and pesticides ❖ Many harmful minerals ❖ Odors |
|---|---|

Unit specifications

Testing: Patent pending ultraviolet chamber was independently tested under ANSI/NSF Specification 55 for class A UV systems. Patented activated carbon and charcoal filters were tested by NSF under ANSI/NSF Specification 42 for materials only.

Status panel:

- UV lamp replacement reminder timer
- Filter replacement reminder timer
- UV failure warning lamp and horn

Flow Rate: 8-12 gpm. At 8 gpm the UV dosage is 80,000 uWsec/cm². Dosage is proportional to flow rate.

Power Requirements: 120 or 240 vac - 80 Watts peak, 40 Watts average

Input line: ¾ inch pipe diameter

Lamp: 33" high-output

Model Number	UV 833 Standard Version	UV 833-1 Cottage/Condo Version
Size:	36" W x 26.5" H x 9" D	36" W x 16.5" H x 9" D
Weight:	60 lbs	55 lbs
Filters:	(3) 4-1/4" x 20"	(3) 4-1/4" x 10"

All carbon and charcoal filters feature: •No Channeling •No Fluidizing •No Bypassing •Eliminate release of carbon fines •Lowest extractables, pure materials of construction •Maximum service life •Manufactured using FDA-approved materials

1. **Pre-filter** – 1 or 5 micron filters are available
2. **Activated Carbon filter** – Standard, lead/cyst removal, or chemical adsorption filters:
 - a. **Standard filter:** 3 micron Nominal Filtration, >99.5% Reduction of 10 µm Particles, 6,000 Gallons >98% Chlorine Reduction at 1.0 GPM, No Release of Carbon Fines, Significantly Exceeds Performance of Traditional GAC and PAC Filters, High Performance at Low Cost
 - b. **Lead/cyst removal filter:** 0.5 micron Nominal Filtration, Lead Reduction: 2,500 gallons @ 0.75 GPM, Cyst Reduction: Giardia, Cryptosporidium, Class 1 Turbidity Reduction, Outstanding Chlorine, Taste and Odor Reduction
 - c. **Chemical adsorption filter:** 0.6 micron Nominal Filtration, High Chemical Adsorptive Capacity, High VOC Reduction, Two-Layer, In-Depth Prefiltration
3. **Activated Charcoal filter** – 2 micron Nominal Filtration, High Chemical Adsorptive Capacity, High VOC & TOC Reduction, High Turbidity Reduction

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