

# Nikken PiMag Waterfall

## *Gravity Water System*

Nikken, Inc.

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**WQA tested and certified according to NSF/ANSI 42 for the reduction of Aesthetic chlorine, Taste and Odor, Chloramines, and Particulate Class III, NSF/ANSI 53 for the reduction of VOCs and Mercury, and NSF/ANSI 372 for low lead compliance as verified and substantiated by test data.**

This system has been tested and certified by the Water Quality Association according to NSF/ANSI 42 and 53 for the reduction of the substances listed below. The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system, as specified in NSF/ANSI 42 and 53. While testing was performed under laboratory conditions, actual performance may vary.

**Table 1: Reduction Claims**

Substance	Influent Challenge Concentration (mg/L)	Maximum Permissible Product Water Concentration (mg/L)	Reduction Requirement	Minimum Percent Reduction	Average Percent Reduction
Aesthetic Chlorine	2.0 ± 10%	N/A	≥ 50%	99.4%	99.4%
Chloramine <sup>1</sup>	3.0 ± 10%	0.5	N/A	99.4%	99.4%
Particulate Class III Particles: ≥ 5 µm to < 15 µm	at least 10,000 particles/mL	N/A	≥ 85%	99.9%	99.9%
Mercury pH 6.5	0.006 ± 10%	0.002	N/A	96.5%	96.5%
Mercury pH 8.5	0.006 ± 10%	0.002	N/A	96.4%	96.4%
VOC <sup>2</sup>	2	2	N/A	99.6%	99.8%

<sup>1</sup> As monochloramine (measured as Cl<sub>2</sub>/L)

<sup>2</sup> Refer to Table 3 on the next page for a list of the VOC surrogate claims

**Table 2: General Operating Information:**

Rated Service Flow:	45 Liters per Day (LPD)
Rated Capacity:	900 Liters
Operating Temperature:	39 - 100°F (4 - 38°C)

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Refer to the owner's manual for specific installation instructions, user responsibility, and parts and service availability
- The estimated replacement time of filter, which is a consumable part, is not an indication of quality guarantee, but it means the ideal time of filter replacement.

The PiMag Waterfall is equipped with an LED display that notifies you when filter replacement is recommended. A green indicator light signals that the unit is ready for use. A red indicator light reveals that the filter should be replaced. When the PiMag Waterfall is operating at optimum efficiency, the LED above the water tap will flash green after the button is depressed and released (do not hold this button down) to check the operation of the indicator system. As the filter cartridge approaches the end of its effective life, the LED above the tap will flash red when the button is depressed and released. It will also flash red when the tap is in use. This indicates that the filter cartridge requires replacement. This function must be reset manually after your Waterfall is assembled with a new filter and the flushing operation has been completed.

To set the filter monitor:

1. Fill the Waterfall to prepare it for use.
2. Depress the LED check button and hold in place for five seconds to program the monitor flow counter.

**Table 3: VOC Surrogate Claims**

Substance	Influent challenge concentration mg/L	Maximum permissible product water concentration mg/L
alachlor	0.050	0.001
atrazine	0.100	0.003
benzene	0.081	0.001
carbofuran	0.190	0.001
carbon tetrachloride	0.078	0.0018
chlorobenzene	0.077	0.001
chloropicrin	0.015	0.0002
2,4-D	0.110	0.0017
dibromochloropropane (DBCP)	0.052	0.00002
o-dichlorobenzene	0.080	0.001
p-dichlorobenzene	0.040	0.001
1,2-dichloroethane	0.088	0.0048
1,1-dichloroethylene	0.083	0.001
cis-1,2-dichloroethylene	0.170	0.0005
trans-1,2-dichloroethylene	0.086	0.001
1,2-dichloropropane	0.080	0.001
cis-1,3-dichloropropylene	0.079	0.001
dinoseb	0.170	0.0002
endrin	0.053	0.00059
ethylbenzene	0.088	0.001
ethylene dibromide (EDB)	0.044	0.00002
haloacetonitriles (HAN):		
bromochloroacetonitrile	0.022 <sup>1</sup>	0.0005
dibromoacetonitrile	0.024	0.0006
dichloroacetonitrile	0.0096	0.0002
trichloroacetonitrile	0.015	0.0003
haloketones (HK):		
1,1-dichloro-2-propanone	0.0072	0.0001
1,1,1-trichloro-2-propanone	0.0082	0.0003
heptachlor	0.025	0.00001
heptachlor epoxide	0.0107	0.0002
hexachlorobutadiene	0.044	0.001
hexachlorocyclopentadiene	0.060	0.000002
lindane	0.055	0.00001
methoxychlor	0.050	0.0001
pentachlorophenol	0.096	0.001
simazine	0.120	0.004
styrene	0.150	0.0005
1,1,2,2-tetrachloroethane	0.081	0.001
tetrachloroethylene	0.081	0.001
toluene	0.078	0.001
2,4,5-TP (silvex)	0.270	0.0016
tribromoacetic acid	0.042	0.001
1,2,4-trichlorobenzene	0.160	0.0005
1,1,1-trichloroethane	0.084	0.0046
1,1,2-trichloroethane	0.150	0.0005
trichloroethylene	0.180	0.0010
trihalomethanes (includes):		
chloroform (surrogate chemical)		
bromoform	0.300	0.015
bromodichloromethane		
chlorodibromomethane		
xylenes (total)	0.070	0.001

### **Replacement Components**

Filter Cartridge # 13845 (\$32.50 retail and \$26 wholesale) – replace every 3 months or 900 liters/238 gal, whichever comes first.

Mineral Stones # 13846 (\$20 retail and \$16 wholesale) – replace once a year

To order replacement filter, please visit our website at [www.nikken.com](http://www.nikken.com) or call (949) 789-2000 (Mon - Fri: 8:00am – 5:00pm PST)

### **Warranty:**

This product is covered under a one-year standard limited warranty on parts and labor. Warranty protects against any defects in materials and workmanship, when product is used in compliance with the instructions in this manual. This warranty does not apply to normal wear, or for damage to this product resulting from accident, misuse, tampering or modification. Nikken retains the option to either repair or replace this product with a new or fully warranted, reconditioned unit, or refund part or all of the purchase price of the product, on a prorated basis. In the event of repair or exchange, the purchaser will pay all costs related to shipping.

Nikken has elected to forgo recertification with the Water Quality Association (WQA). The PiMag Waterfall has not changed and its performance is the same.

