

FAST FACTS ABOUT WATER DOME® WATER ENHANCEMENT SYSTEMS

The by-products of agriculture, heavy industry and high technology indiscriminately released into the environment has altered nature's ability to provide a source of clean, healthy drinking water. Today, it is recognized that the problem is so big it is inescapable. Because water is everywhere in our environment, it eventually comes in contact with everything. It falls from the sky, cleansing the air of air-borne pollutants. It falls on the ground, washing away surface pollutants. It either flows down rivers carrying its toxic passengers along with it, picking up the waste from factories, or seeps into the ground and into our ground water aquifers, slowly spreading the refuse and waste of our society to every corner of our land. As unavoidable and inescapable as environmental toxins have become, we are not helpless. In fact, there is a great deal we can do. GNLD offers choices to people and their families all around the world. By researching and focusing specific technologies, GNLD offers products that can function as protective barriers between people and environmental pollutants, effectively minimizing our exposure to, and the effects from, these toxic compounds.



It was during the 1960s that the dangers of environmental pollution first became known.

WHY FILTER DRINKING WATER?

- EPA statistics for 1993-94 conclude that 53 million Americans drank water that violated EPA safety standards.
- Chlorine by-products such as trihalomethanes in the water supplies are linked to an estimated 10,000 bladder cancers per year.
- More than 1 in 5 Americans are drinking tap water contaminated by lead, bacteria, other pollutants and toxic chemicals, according to reports by two major environmental organizations.
- 30 million Americans are served by water systems that violated public health standards in 1994, according to U.S. EPA Administrator Carol Browner. With increases in residential growth, leaking underground storage tanks, industrial sites and landfills, it's easy to conclude that water regulators simply can't keep up.
- At least 25% of our nation's water treatment plants have difficulty complying with federal drinking water standards because they're out of date or ill equipped to process the huge amounts of raw sewage and agricultural pollutants that are being discharged into our drinking-water sources.
- According to Jack Sullivan of the American Water Works Association, representing public water utilities, "the best method of killing *cryptosporidium* and other microbes is filtration, but many of the largest [municipal] water systems don't use filtration."
- Bottled water is not necessarily contaminant-free. Some bottled water is not monitored regularly. In fact, several brands of bottled water tested both in New York and California did not even meet state and federal drinking water standards.





Depending upon where you live, a variety of toxic water pollutants may be hidden in your drinking water supplies.

WHY GNLD WATER DOME WATER ENHANCEMENT SYSTEMS?

- **Easy to install.** The countertop model requires no tools to install. The undercounter model installs quickly using a few simple hand tools.
- **Easy to maintain.** Just a few minutes are required to easily replace a used filter cartridge with a new one.
- **Less expensive and more convenient than bottled water.** You can save up to 90% of the high cost of bottled water, and eliminate the inconvenience of storage.
- **Long-lasting.** One filter cartridge should provide enough filtered water for 6 months (500 gallons) depending on your usage and local water quality.
- **Three filter technologies work together to remove particles under 1 micron:** a graded density electokinetic pre-filter, a superior absorption compressed carbon block, and an FDA-grade micro-sieve.
- **Uses no power.** GNLD's Water Dome Water Enhancement Systems require no electricity. Both models operate using only normal household water pressure.
- **Wastes no water.** Some filtrations systems use up to 4 gallons just to supply one of filtered water. GNLD's systems provide gallon for gallon efficiency.



PRODUCT PERFORMANCE

GNLD WATER ENHANCEMENT SYSTEM #32:

NSF CERTIFICATION

The GNLD Water Enhancement System #32 has been tested and certified by NSF International to comply with its ANSI*/NSF standards

NSF certified to meet or exceed the requirements of Std 42.

AESTHETIC EFFECTS (No. 42)

- Taste, Odor and Chlorine (Class 1)
- Particulate Matter (dirt and rust) down to the submicron range (Class 1)

NSF certified to meet or exceed the requirements of Std. 53.

- Health Effects
- Turbidity
- Trihalomethanes (THMs)
- Lindane
- Cysts
- Primary Regulated Volatile Organic Chemicals (VOCs)
- Other Volatile Organic Chemicals (VOCs)

The following NSF tables summarize the allowable claims for Volatile Organic Chemicals (VOCs) (Chloroform m was used as a surrogate)

PRIMARY REGULATED VOLATILE ORGANIC CHEMICALS

Chemical	Occurrence Levels (ppb)	Percent Reduction Test Results
Benzene	30	99.8%
Carbon tetrachloride	40	99.8%
p-Dichlorobenzene	40	99.8%
Trichloroethylene	300	99.8%
Trihalomethanes (surrogate chemical)	333	99.8%
1, 1-Dichloroethylene	50	99.8%
1, 1, 1-Trichloroethane	80	99.8%
1, 2-Dichloroethane	100	99.8%

OTHER VOLATILE ORGANIC CHEMICALS (VOCs)

Chemical	Influent Concentration (ppb)	Percent Reduction Test Results
cis-1, 3-Dichloropropylene	80	99.8%
Chlorobenzene	80	99.8%
Ethylbenzene	80	99.8%
Hexachlorobutadiene	40	99.8%
ortho-Xylene	80	99.8%
Tetrachloroethane	80	99.8%
Toluene	80	99.8%
trans-1, 2-Dichloroethylene	80	99.8%
1, 1, 2, 2-Tetrachloroethane	80	99.8%
O-Dichlorobenzene	80	99.8%
1, 2-Dichloropropane	80	99.8%

Service Flow Rate: 0.75 gallons/minute at 60 psi
Capacity: 500 gallons
Min /Max. Operating Pressure: 30-125 psi
Max. Operating Temperature: 100° F (38° C)
Min Operating Temperature: 35° F (2° C)
Replacement Filter: Model No 34

This system is designed for use on municipally treated, cold water. Do not use on bacterially contaminated or untreated water supplies without adequate disinfection before and after the unit

** American National Standards Institute*



This system is designed for use on municipally treated, cold water.





The GNLD Water Enhancement System: #1720 has been tested and certified by NSF International to comply with its ANSI*/NSF standards.

PRODUCT PERFORMANCE

GNLD WATER ENHANCEMENT SYSTEM #1720:

NSF CERTIFICATION

The GNLD Water Enhancement System #1720 has been tested and certified by NSF International to comply with its ANSI*/NSF standards.

NSF certified to meet or exceed the requirements of Std 42

AESTHETIC EFFECTS (No. 42)

- Taste, Odor and Chlorine (Class 1)
- Particulate Matter (dirt and rust) down to the submicron range (Class 1)

NSF certified to meet or exceed the requirements of Std 53.

HEALTH EFFECTS

- Turbidity
- Lead
- Trihalomethanes (THMs)
- Lindane and 2,4-D
- Asbestos
- Cysts
- Primary Regulated Volatile Organic Chemicals (VOCs)
- Other Volatile Organic Chemicals (VOCs)

The following NSF tables summarize the allowable claims for Volatile Organic Chemicals (VOCs). (Chloroform was used as a surrogate.)

PRIMARY REGULATED VOLATILE ORGANIC CHEMICALS

Chemical	Occurrence Levels (ppb)	Percent Reduction Test Results
Benzene	81	99%
Carbon tetrachloride	78	93%
p-Dichlorobenzene	40	98%
Trichloroethylene (TCE)	180	99%
Trihalomethanes (surrogate chemical)	343	99.8%
1, 1-Dichloroethylene (1, 1DCE)	83	99%
1, 1, 1-Trichloroethane	84	95%
1, 2-Dichloroethane	88	99.1%

OTHER VOLATILE ORGANIC CHEMICALS (VOCs)

Chemical	Influent Concentration (ppb)	Percent Reduction Test Results
cis-1, 3-Dichloropropylene	79	95%
Chlorobenzene	77	95%
Ethylbenzene	88	95%
Hexachlorobutadiene	44	95%
ortho-Xylene	70	95%
Toluene	78	95%
trans-1, 2-Dichloroethylene	86	95%
1, 1, 2, 2-Tetrachloroethane	81	95%
O-Dichlorobenzene	80	95%
1, 2-Dichloropropane	80	95%
1, 1, 1-Trichloroethane	84	95%

Service Flow Rate: 0.75 gallons/minute at 60 psi

Capacity: 500 gallons

Min /Max. Operating Pressure: 30-125 psi

Max. Operating Temperature: 100° F (38° C)

Min Operating Temperature: 35° F (2° C)

Replacement Filter: Model No 1721

This system is designed for use on municipally treated, cold water. Do not use on bacterially contaminated or untreated water supplies without adequate disinfection before and after the unit.

* American National Standards Institute

