

Gravity Water Filter/Purifier Comparison Chart

Company	NMCL	AquaCera	AquaCrock	Pro Pur	Doulton	Aqua Rain	Katadyn
Model	Big Berkey	Ceragrav-LP5	AquaCrock	Pro Big	GSS-2	Model 400	Gravidyn
Virus Removal [A]	Yes	No	No	No	No	No	No
Element Rating	Purifier [A]	Filter	Filter	Filter	Filter	Filter	Filter
Base System Cost	\$263	\$139	\$399	\$239	\$229	\$239.99	\$219.95
Max Daily Output (Gal/Day) Base	84	10	18	9	14	12	24
Max Daily Output-Max # Elements	168	25	18	18.5	20	24	24
Approx. People Served [B]	42	6	5	4	5	6	6
Maximum Gallons/Element	3,000	535 [C]	535 [C,D]	1,500 [E]	535 [C]	1095 [F]	730 [G]
Replacement Time Limitation	No Time Limit	6 Months [C]	2 Years [C,D]	12 Months [E]	6 Months [C]	1 year [F]	Up to 6 months
Price of Elements (Each)	\$54.50	\$30.00	\$36.00	\$49.50	\$36.00	\$42.99	\$56.00
Approx Cost Per Gallon (Cents)	1.8	5.6 [H]	6.7 + electric [H]	3.3 [H]	6.7 [H]	3.9 [H]	7.6 [H]
Maximum Element Capacity	4	5	3	4	4	4	3
Food Color Test [I]	Pass	Fail	Fail	Pass	Fail	Fail	Fail
Turbidity Flow Rate Test [J]	Pass	Pass	Pass	Pass	Pass	Fail	Pass
Test Results Available	Yes	Yes	Yes	No	Yes	Yes	Yes
Tested to NSF Standards	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NSF Certified Claimed	No	No	No	Yes [K]	No	No	No
Guarantee	6 Mos (elem 2-Yr)	None Published	1 Year Ltd.	2 Year	None Published	None Published	None Published
System Cost-Max Elements	\$363	\$274	\$399	\$338	\$299	\$319.99	\$219.95
System Material	AISI 304 Stainless	HDPE	Ceramic	Stainless	AISI 304 Stainless	Stainless	Silicone
System Production	Plasma Welded	Molded	Kiln	Deep Drawn	Plasma Weld	Deep Drawn	Molded
<u>OTHER INFORMATION</u>							
Element Composition	Proprietary Formula	Ceramic/Carbon	Ceramic/Carbon	Ceramic/Carbon	Ceramic/Carbon	Ceramic/Carbon	Ceramic/Carbon
Number of Elements	2	2	3	2	2	2	3
Element Height	9"	7"	5"	9"	7"	~9"	10.4"
Elements cleanable	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Storage Tank Capacity (Gallons)	2.25	3.5	Not Stated	2.75	2.25	3	2.6
Electricity Required	No	No	Yes	No	No	No	No
Plumbing Required	No	No	No	No	No	No	No
Post Filters	Yes	Yes	Yes	Yes	Yes	No	No
Height	19.25"	28.5"	17.5"	21.5"	19.25"	20.5"	18"
Diameter	8.5"	11.25"	11"	9.25"	8.5"	11"	11"
Dry Weight (Approx.)	6 lbs	5 lbs	26 lbs	5 lbs	5.5 lbs	7 lbs	6.5 lbs

NOTES

[A] = Purification Standards: Element must remove/inactivate all types of pathogenic organisms. Specifically, element must remove two species of virus to 4 Log10 (=> 99.99%) and remove pathogenic bacteria to 6 Log10 (=> 99.9999%) and remove cysts to 3 Log10 (=> 99.9%). This makes Berkey systems the only true gravity fed purification systems.

Purification Challenge: The Standard has selected 3 types of challenge organisms: Bacteria (*Klebsiella terrigena*), Viruses (Polio and Rota) and Protozoan Cysts (*Giardia* or *Cryptosporidium*).

VIROLOGY - Demonstration of a 4 Log10 (99.99%) reduction is required on the combined polio/rota virus challenge matrix.

BACTERIOLOGY - Demonstration of a 6 Log10 (99.9999%) reduction is required for the *Klebsiella terrigena* bacterial challenge.

CYST REMOVAL - Demonstration of a 3 Log10 (99.9%) reduction is required for the cysts using *Cryptosporidium* or *Giardia*.

[B] = Number based on 2 gallons per day per person, system used 12 hours per day.

[C] = Aqua Crock, Doulton GSS-2, Ceragrav LP-5 all use Doulton Filter Elements - life expectancy is 525 gallons or 6 months, whichever occurs first.

[D] = Claim made is 2 years or 3,000 gallons; while the manufacturer of their Doulton filter elements states the life expectancy is 535 gallons or 6 months whichever occurs first.

[E] = While the company claims their elements will last for 3,000 gallons on their comparison chart, we used the claims of the manufacturer, which state that the life of the elements is only 1,500 gallons or 12 months whichever occurs first.

[F] = Calculation based on each element producing 3 gallons when used for 12 hours per day during 365 day maximum recommended time limitation.

[G] = Calculation based on each element producing 12 gallons if used for 12 hours per day during 182 day maximum recommended time limitation.

[H] = Cost per gallon presumes maximum gallon claims reached prior to "replacement time limitation" above and calculated based on "max daily output" above, whichever is less or occurs first.

[I] = Successfully demonstrates removal of microscopic red food coloring particulate from source water at 1 tablespoon of red food coloring per gallon.

[J] = Test is designed to determine if high turbidity (larger particulate) source water will clog up elements which may render them ineffective during actual emergency conditions. 1 tbsp carbon dust per gallon. Flow rate reduction of <25%=Pass, >25%=Fail.

[K] = NSF Claims: No listing on NSF website as of publication date. NSF has confirmed that ProPure has not been certified by their organization

Where information was available and published, this information was used. Where information was not available, information was calculated, such as in F and L above, using the available published information. Where published information on systems was in conflict with the published information by the manufacturer, such as in C, D, and E above, items are highlighted in orange.

Data based on manufacturer's life expectancy claims rather than the claims of the manufacturer's customer. Information collected from websites, corporate literature, internal testing and outside independent sources is believed to be accurate at time of publication (5-15-12). Neither this chart nor it's producer assume any liability, implied, expressed or assumed.

There are other gravity fed filter systems that claim they are not to be used with microbiologically unsafe or questionable water. We chose not to include those systems in this comparison chart.