

TABLE 2

Reduction of Inorganic Contaminants utilizing a Pure Water Midi D Model ECP, forerunner of the Midi Classic, and a Pure Water A-12 Distiller, forerunner of the Mega Classic Distiller.

Inorganic	MIDI D ECP (AKA Midi Classic)		A-12 (AKA Mega Classic)		Test Method	
	Feed water	Water After Treatment	Percentage Reduction	Water After Treatment		Percentage Reduction
	Mg/L (ppm)	Mg/L (ppm)	%	Mg/L (ppm)		%
Aluminum	3.66	0	>99.9%	0	>99.9%	EPA 200.9
Antimony	35.6	0.02	>99.9%	0.97	97.28%	EPA 200.9
Arsenic	.275	0	>99.9%	0	>99.9%	EPA 200.7
Barium	0.07	0	>99.9%	0	>99.9%	EPA 200.7
Boron	.375	0	>99.9%	0	>99.9%	EPA 200.7
Cadmium	0.056	0	>99.9%	0	>99.9%	EPA 200.7
Calcium	41.45	0.165	99.6%	0.32	99.23%	EPA 200.7
Chloride	87	4	95.4%	8	90.80%	EPA 300.0
Chromium	0.17	0	>99.9%	0	>99.9%	EPA 200.7
Cobalt	0.16	0	>99.9%	0	>99.9%	EPA 200.7
Copper	0.22	0	>99.9%	0	>99.9%	EPA 200.7
Fluoride	2.55	0	>99.9%	0	>99.9%	EPA 300.0
Hardness	147	0.575	99.61%	1.25	99.15%	SM 2340B
Iron	0.17	0.01	94.12%	0	>99.9%	EPA 200.7
Lead	0.145	0	>99.9%	0.001	99.31%	EPA 200.9
Magnesium	10.6	0.04	>99.9%	0.11	98.96%	EPA 200.7
Manganese	0.16	0	>99.9%	0	>99.9%	EPA 200.7
Mercury	0.018	0	>99.9%	0.0003	98.33%	EPA 245.1
Nickel	0.16	0.01	93.75%	0	>99.9%	EPA 200.7
Nitrate	11.3	0	>99.9%	0	>99.9%	EPA 300.0
Phosphorous	0.2	0	>99.9%	0	>99.9%	EPA 200.7
Potassium	15.2	0.135	99.11%	0.17	98.88%	EPA 200.7
Selenium	0.14	0	>99.9%	0	>99.9%	EPA 200.9
Sodium	62.2	1.32	97.88%	0.65	98.95%	EPA 200.7
Thallium	38.5	0.098	99.75%	0.386	99.00%	EPA 200.9
Vanadium	0.17	0	>99.9%	0	>99.9%	EPA 200.7
Zinc	0.17	0.02	88.24%	0.02	88.24%	EPA 200.7

Both Distillation systems effectively remove dissolved inorganic compounds from water and produced water essentially free of such contaminants. Some inorganic contaminants in this category, including lead, selenium, mercury, and arsenic are regulated by the EPA since they can cause medical disorders. The combination of a distiller with its recommended post-filter effectively reduces a number of such contaminants.

Removal of Organic Contaminants from Water

Organic Compounds contain a carbon atom in their chemicals structure. This group consists of thousands of different entities, many derived from the petrochemical industry. Common Organic Contaminants include cleaners, herbicides, pesticides, and industrial process wastes.

Table 3 and 4 show the effect on organic and pesticide contaminants in water after treatment by the Pure Water Midi D Model ECP, Forerunner of the Midi Classic, and a Pure Water A-12 Distiller, Forerunner of the Mega Classic Distiller. A number of organic chemicals are regulated by the EPA.

	Feed water	MIDI D ECP (AKA Midi Classic)			A-12 (AKA Mega Classic)			Test Method
		Water After Treatment	Percentage Reduction	Water After Treatment	Percentage Reduction	Water After Treatment	Percentage Reduction	
		µg/L (ppb)	%	µg/L (ppm)	%	µg/L (ppm)	%	
Inorganic								
Phenol	28.1	0	>99.9%	0	>99.9%	0	>99.9%	EPA 625
2,4-Dichlorophenol	34.4	0	>99.9%	0	>99.9%	0	>99.9%	EPA 625
2,4,6-Trichlorophenol	36.2	0	>99.9%	0	>99.9%	0	>99.9%	EPA 625
2,4-Dinitrophenol	50.1	0	>99.9%	0	>99.9%	0	>99.9%	EPA 625
Pentachlorophenol	140.4	0	>99.9%	0	>99.9%	0	>99.9%	EPA 625
Bis(2-Chloroethyl)	35.5	0	>99.9%	0	>99.9%	0	>99.9%	EPA 625
Nitrobenzene	39.8	0	>99.9%	0	>99.9%	0	>99.9%	EPA 625
2,6-dinitrotoluene	33.2	0	>99.9%	0	>99.9%	0	>99.9%	EPA 625
Dimethylphthalate	31.8	0	>99.9%	0	>99.9%	0	>99.9%	EPA 625
Phenathrene	23	0	>99.9%	0	>99.9%	0	>99.9%	EPA 625
Fluoroanthene	21.6	0	>99.9%	0	>99.9%	0	>99.9%	EPA 625
Naphthalene	23.8	0	>99.9%	0	>99.9%	0	>99.9%	EPA 502.2
4-nitrophenol	38.6	0	>99.9%	0	>99.9%	0	>99.9%	EPA 625
Anthracene	21.4	0	>99.9%	0	>99.9%	0	>99.9%	EPA 625
Pyrene	21.9	0	>99.9%	0	>99.9%	0	>99.9%	EPA 625
Benzene	7.5	0	>99.9%	0	>99.9%	0	>99.9%	EPA 502.2
Bromobenzene	7	0	>99.9%	0	>99.9%	0	>99.9%	EPA 502.2
Bromochloromethane	7.5	0	>99.9%	0	>99.9%	0	>99.9%	EPA 502.2
Bromoform	9.5	0	>99.9%	0	>99.9%	0	>99.9%	EPA 502.2
Carbon Tetrachloride	5	0	>99.9%	0	>99.9%	0	>99.9%	EPA 502.2
Chlorobenzene	7	0	>99.9%	0	>99.9%	0	>99.9%	EPA 502.2
Chloroform	46	0.5	98.91%	0	>99.9%	0	>99.9%	EPA 502.2
2-Chlorotoluene	6.5	0	>99.9%	0	>99.9%	0	>99.9%	EPA 502.2
Dibromomethane	7	0	>99.9%	0	>99.9%	0	>99.9%	EPA 502.2
1,2-Dichlorobenzene	8	0	>99.9%	0	>99.9%	0	>99.9%	EPA 502.2