H2O+ WATER FILTRATION Cypress Model H630 System Performance Data Sheet

Brondell's H630 Drinking Water System has been tested and certified by the WQA (Water Quality Association) to comply with NSF/ANSI Standards 42 and 53 for the reduction of the claims specified on the Performance Data Sheet and NSF/ANSI 372 for low lead compliance.

Substance		Minimum Percent Reduction	Influent challenge Concentration (mg/L unless specified)	Maximum permissible Product water Concentration or minimum allowable % reduction (mg/L unless specified)
NSF/ANSI 42 Aesthetic Effects	Chlorine, Taste & Odor	98.0%	2.00 ± 10%	≥50% Reduction
	Particulate, Class I particles 0.5 to < 1 µm	91.3%	at least 10,000 particles/mL	≥85% Reduction
NSF/ANSI 53 Health Effects	Turbidity	96.6%	11 ± 1 NTU	0.5 NTU
	VOCs	99.9%	3.00 ± 10%	≥95% Reduction

While testing was performed under standard laboratory conditions, actual performance may vary.

Rated Capacity:	5,000 gallons for aesthetic chlorine and 150 gallons for VOC's
Min-Max operating pressure:	20 ~ 120 psi (207 kPa ~ 827 kPa)
Min-Max feed water temperature:	40 °F ~ 100 °F (4.4 °C ~ 37.8 °C)
Rated Service Flow:	0.5 gpm (1.9 LPM)

- 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, manufacturer's limited warranty, user responsibility, and parts and service availability.
- For parts and service availability, please contact Brondell.
- The estimated replacement time of filter, which is a consumable part, is not an indication of quality guarantee period, but it means the ideal time of filter replacement. Accordingly, the estimated time of filter replacement may be shortened in case it is used in an area of poor water quality

Model of Filter	Type	Usable period
HF-31	Composite Plus Filter	6 months
HF-32	Nanotrap Filter	12 months
HF-33	Carbon Block Filter	6 months

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Volatile Organic Chemicals (VOCs) included by surrogate testing*

Chemical	Drinking water regulatory level[1] (MCL/MAC) mg/L	Influent challenge concentration[2] mg/L	Chemical reduction percent	Maximum product water concentration mg/L
alachlor	0.002	0.05	> 98	0.001[3]
atrazine	0.003	0.1	> 97	0.003[3]
benzene	0.005	0.081	> 99	0.001[3]
carbofuran	0.04	0.19	> 99	0.001[3]
carbon tetrachloride	0.005	0.078	98	0.0018[4]
chlorobenzene	0.1	0.077	> 99	0.001[3]
chloropicrin	-	0.015	99	0.0002[3]
2,4-D	0.07	0.11	98	0.0017[4]
dibromochloropropane(DBCP)	0.0002	0.052	> 99	0.00002[3]
o-dichlorobenzene	0.6	0.08	> 99	0.001[3]
p-dichlorobenzene	0.075	0.04	> 98	0.001[3]
1,2-dichloroethane	0.005	0.088	95[5]	0.0048[5]
1,1-dichloroethylene	0.007	0.083	> 99	0.001[3]
cis-1,2-dichloroethylene	0.07	0.17	> 99	0.0005[3]
trans-1,2-dichloroethylene	0.1	0.086	> 99	0.001[3]
1,2-dichloropropane	0.005	0.08	> 99	0.001[3]
cis-1,3-dichloropropylene	-	0.079	> 99	0.001[3]
dinoseb	0.007	0.17	99	0.0002[4]
endrin	0.002	0.053	99	0.00059[4]
ethylbenzene	0.7	0.088	>99	0.001[3]
ethylene dilbromide (EDB)	0.00005	0.044	> 99	0.00002[3]
haloacetonitriles (HAN)				
bromochloroacetonitrile	-	0.022	98	0.0005[3]
dibromoacetonitrile	-	0.024	98	0.0006[3]
dichloroacetonitrile	-	0.0096	98	0.0002[3]
trichloroacetoritrile	-	0.015	98	0.0003[3]
haloketones (HK):				
1,1-dichloro-2-propanone	-	0.0072	99	0.0001[3]
1,1,1-trichloro-2-propanone	-	0.0082	96	0.0003[3]
heptachlor (H-34,Heptox)	0.0004	0.08	> 99	0.0004
heptachlor epoxide	0.0002	0.0107[6]	98	0.0002[6]
hexachlorobutadiene	-	0.044	> 98	0.001[3]
hexachlorocyclopentadiene	0.05	0.06	> 99	0.000002[3]
lindane	0.0002	0.055	> 99	0.00001[3]
methoxychlor	0.04	0.05	> 99	0.0001[3]
pentachlorophenol	0.001	0.096	> 99	0.001[3]
simazine	0.004	0.12	> 97	0.004[3]
styrene	0.1	0.15	> 99	0.0005[3]
1,1,2,2-tetrachloroethane	-	0.081	> 99	0.001[3]
tetrachloroethylene	0.005	0.081	> 99	0.001[3]
toluene	1	0.078	> 99	0.001[3]
2,4,5-TP (silvex)	0.05	0.27	99	0.0016[4]
tribromoacetic acid	-	0.042	> 98	0.001[3]
1,2,4-trichlorobenzene	0.07	0.16	> 99	0.0005[3]
1,1,1-trichloroethane	0.2	0.084	95	0.0046[4]
1,1,2-trichloroethane	0.005	0.15	> 99	0.0005[3]
trichloroethylene	0.005	0.18	> 99	0.0010[3]
trihalomethanes (includes):				
chloroform (surrogate chemical) bromoform bromodichloromethane chlorodibromomethane	0.080	0.300	95	0.015
xylenes (total)	10	0.070	> 99	0.001[3]

* Chloroform was used as the surrogate chemical for VOC reduction claims

1 These harmonized values were agreed upon by representatives of USEPA and Health Canada for the purpose of evaluating products to the requirements of this Standard.
2 Influent challenge levels are average influent concentrations determined in surrogate qualification testing.
3 Maximum product water level was not observed but was set at the detection limit of the analysis.
4 Maximum product water level is set at a value determined in surrogate qualification testing.
5 Chemical reduction percent and maximum product water level calculated at chloroform 95% breakthrough point as determined in surrogate qualification testing.
6 The surrogate test results for heptachlor epoxide demonstrated a 98% reduction. These data were used to calculate an upper occurrence concentration which would produce a maximum product water level at the MCL.

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State of California Department of Public Health

Water Treatment Device

Certificate Number

13-2165

Date Issued: May 21, 2013

Trademark/Model Designation
Brondell H630

Replacement Elements
HF-31
HF-32
HF-33

Manufacturer: Brondell, Inc.

The water treatment device(s) listed on this certificate have met the testing requirements pursuant to Section 116830 of the Health and Safety Code for the following health related contaminants:

Microbiological Contaminants and Turbidity

Turbidity

Inorganic/Radiological Contaminants

None

Organic Contaminants

Alachlor
Atrazine
Benzene
Carbofuran
Carbon Tetrachloride
Chlorobenzene
Chloropicrin
2,4-D
DBCP
o-Dichlorobenzene
p-Dichlorobenzene
1,2-Dichloroethane
1,1-Dichloroethylene
cis-1,2-Dichloroethylene
trans-1,2-Dichloroethylene
1,2-Dichloropropane
cis-1,3-Dichloropropylene
Dinoseb
Endrin
Ethylbenzene
EDB
Haloacetonitriles
Bromochloroacetonitrile
Dichloroacetonitrile
Dibromoacetonitrile
Trichloroacetonitrile
Haloketones (HK)
1,1-Dichloro-2-Propanone
1,1,1-Trichloro-2-Propanone
Heptachlor
Heptachlor Epoxide
Hexachlorobutadiene
Hexachlorocyclopentadiene
Lindane
Methoxychlor
Pentachlorophenol
Simazine
Styrene
1,1,2,2-Tetrachlorethane
Toluene
2,4,5-TP (Silvex)
Tribromoacetic Acid
1,2,4-Trichlorobenzene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethylene
Trihalomethanes (THM's)
Bromodochloromethane
Bromoform
Chloroform
Chlorodibromomethane
Xylenes

Rated Service Capacity 150 gallons **Rated Service Flow: 0.5 gallons per minute**

Conditions of Certification

Do not use where water is microbiologically unsafe or with water of unknown quality, except that systems for cyst reduction may be used on disinfected waters that contain filterable cysts.

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