

PLUG-N-PLAY FILTRATION SYSTEM

OPERATION AND MAINTENANCE MANUAL

Your new Plug-N-Play Filter system is equipped with a unique swivel valve head push button assembly. This allows for a simple and sanitary push button filter change that does not require you to turn off the water source to the filtration system. This three-stage system is equipped with a sediment pre-filter, a high-quality carbon block filter and the Ultra Filtration membrane.

The sediment filter reduces sand, silt, sediment and rust particles that may be in your water. The second stage is a heavy-duty lead and volatile organic chemical reducing carbon filter block. This specially formulated block is capable of reducing lead as well as harmful Volatile Organic Chemicals (See performance data sheet for complete list of VOC's). It is estimated that VOC's are present in one-fifth of the nation's water supplies. These water contaminants can enter ground water from a variety of sources including localized use of herbicides and pesticides, gasoline or oil spills, leaking underground fuel tanks, septic system cleaners, and chemicals used in the dry-cleaning industry. The third stage is our state of the art UF Hollow Fiber Technology membrane.

Ultra filtration is a membrane filtration process which uses standard home water pressure to push water through its semi permeable membrane. Suspended particles and materials of high molecular weight are unable to pass through the 0.02 micron UF membrane, allowing only fresher cleaner water and dissolved minerals to pass through. Historically this separation process has been used in large municipal water treatment plants and hospitals; through advances in technology it is now available in a smaller unit for public use.

Ultra filtration is capable of running at low water pressures, does not require a separate water holding tank, does not alter the pH of your water and does not require electricity. The Plug-N-Play filtration system provides a continuous supply of premium quality drinking water directly to your device.

California Proposition 65 Warning

WARNING: this product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. (Installer: California law requires that this warning be given to the consumer). For more information: www.wattsind.com/prop65.

System Maintenance

Depending on the water quality at your facility we recommend replacing filters 1 and 2 (red and blue) every 3 – 6 months. Replacing filter 3 (purple) every 6 – 9 months. If you see a drop in your water pressure prior to this time try changing the red sediment filter only; as this can become clogged with sand and debris from your water source.

Operational Parameters

Installation must comply with state and local plumbing regulations.

Operating Temperatures:	Maximum 102°F (37.8°C)	Minimum 40°F (4.4°C)
Operating Pressure:	Maximum 85 psi (6.0 kg/cm ²)	Minimum 20 psi (1.406 kg/cm ²)
pH Parameters:	Maximum 10	Minimum 5
Flow Rate:	0.5 GPM @ 60 psi	

Changing the Filter Cartridges

Your system is equipped with valve heads which will automatically turn off the water supply to each filter when the filter is released, thus you do not need to turn off the incoming water supply. To make the removal of the filter cartridges easier, the heads & cartridges may be swiveled up to 90 degrees.

- Step 1** Place a towel under the filter module to catch any excess water that may drip out from the filters during the changeover.
- Step 2** **To remove a filter cartridge:** Push & hold the button on the valve head above the filter. Pull cartridge downward (from the head) to remove. Release button and discard old filter.
- Step 3** **To install a filter cartridge:** Remove the seal cap and insert the cartridge into the valve head until you hear an audible “click” (the button does not need to be pressed to install new filters).

Note: **If the new filter cartridge won't snap in easily or pops off it may be due to high incoming water pressure. Relieve pressure to the system by turning off the water supply and then install the cartridge. Once the cartridge is seated, turn the water supply back on to your unit.**

GENERAL USE CONDITIONS:

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before the system. Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.

Operating Temperature:	Maximum 100° F (40.5° C)	Minimum 40° F (4.4° C)
Operating Water Pressure:	Maximum 85-psi (5.98 kg/cm²)	Minimum 20-psi
Maximum flow Rate:	0.50 gpm (1.89 lpm)	
Rated Capacity:	150 Gallons (570 liters)	

PERFORMANCE DATA SHEET

Substance	Percent Reduction	Influent Challenge Concentration (mg/L unless noted)	Maximum Permissible Product Water Concentration
ALACHLOR*	>98%	0.05	0.001
ATRAZINE*	>97%	0.1	0.003
BENZENE*	>99%	0.081	0.001
BROMODICHLOROMETHANE (TTHM)*	>99.8%	0.300 +/- 0.30	0.015
BROMOFORM (TTHM)*	>99.8%	0.300 +/- 0.30	0.015
CARBOFURAN (Furadan)*	>99%	0.19	0.001
CARBON TETRACHLORIDE*	98%	0.078	0.0018
CHLOROBENZENE (Monochlorobenzene)*	>99%	0.077	0.001
CHLOROFORM (TTHM)*	>99.8%	0.300 +/- 0.30	0.015
CRYPTOSPORIDIUM (see Cyst)	99.99%	minimum 50,000/mL	99.95%
CYST	99.99%	minimum 50,000/mL	99.95%
2, 4-D*	98%	0.110	0.0017
DBCP (see Dibromochloropropane)*	>99%	0.052	0.00002
1,2-DCA (see 1,2-DICHLOROETHANE)*	95%	0.088	0.0048
1,1-DCE (see 1,1-DICHLOROETHYLENE)*	>99%	0.083	0.001
DIBROMOCHLOROMETHANE (TTHM; Chlorodibromomethane)*	>99.8%	0.300 +/- 0.30	0.015
DIBROMOCHLOROPROPANE (DBCP)*	>99%	0.052	0.00002
o-DICHLOROENZENE (1,2 Dichlorobenzene)*	>99%	0.08	0.001
p-DICHLOROENZENE (para-Dichlorobenzene)*	>98%	0.04	0.001
1,2-DICHLOROETHANE (1,2-DCA)*	95%	0.088	0.0048
1,1-DICHLOROETHYLENE (1,1-DCE)*	>99%	0.083	0.001
CIS-1,2-DICHLOROETHYLENE*	>99%	0.17	0.0005
TRANS-1,2- DICHLOROETHYLENE*	>99%	0.086	0.001
1,2-DICHLOROPROPANE (Propylene Dichloride)*	>99%	0.08	0.001
CIS-1,3- DICHLOROPROPYLENE*	>99%	0.079	0.001
DINOSEB*	99%	0.17	0.0002
EDB (see ETHYLENE DIBROMIDE)*	>99%	0.044	0.00002
ENDRIN*	99%	0.053	0.00059
ENTAMOEBA (See CYST)	99.99%	minimum 50,000/mL	99.95%
ETHYLBENZENE*	>99%	0.088	0.001
ETHYLENE DIBROMIDE (EDB)*	>99%	0.044	0.00002
FURADAN (see CARBOFURAN)*	>99%	0.19	0.001
HALOACETONITRILES (HAN)*			
BROMOCHLOROACETONITRILE	98%	0.022	0.0005
DIBROMOACETONITRILE	98%	0.024	0.0006
DICHLOROACETONITRILE	98%	0.0096	0.0002
TRICHLOROACETONITRILE	98%	0.015	0.0003
HALOKETONES (HK):*			
1,1-DICHLORO-2-PROPANONE	99%	0.0072	0.0001
1,1,1-TRICHLORO-2-PROPANONE	96%	0.0082	0.0003
GIARDIA LAMBLIA (see Cyst)	99.99%	minimum 50,000/mL	99.95%
HEPTACHLOR*	>99%	0.25	0.00001
HEPTACHLOR EPOXIDE*	98%	0.0107	0.0002
HEXACHLOROBUTADIENE (Perchlorobutadiene)*	>98%	0.044	0.001
HEXACHLOROCYCLOPENTADIENE*	>99%	0.060	0.000002

LEAD pH 6.5	96%	0.15 +/- 10%	0.010
LEAD pH 8.5	99%	0.15 +/- 10%	0.010
LINDANE*	>99%	0.055	0.00001
METHOXYCHLOR*	>99%	0.050	0.0001
METHYLBENZENE (see TOLUENE)*	>99%	0.078	0.001
MONOCHLOROBENZENE (see CHLOROBENZENE)*	>99%	0.077	0.001
PCE (see TETRACHLOROETHYLENE)*	>99%	0.081	0.001
PENTACHLOROPHENOL*	>99%	0.096	0.001
PERCHLOROBUTADIENE (see HEXACHLOROBUTADIENE)*	>98%	0.044	0.001
PROPYLENE DICHLORIDE (see 1,2 -DICHLOROPROPANE)*	>99%	0.080	0.001
SIMAZINE*	>97%	0.120	0.004
SILVEX (see 2,4,5-TP)*	99%	0.270	0.0016
STYRENE (Vinylbenzene)*	>99%	0.15	0.0005
1,1,1-TCA (see 1,1,1 - TRICHLOROETHANE)*	95%	0.084	0.0046
TCE (see TRICHLOROETHYLENE)*	>99%	0.180	0.0010
1,1,2,2- TETRACHLOROETHANE*	>99%	0.081	0.001
TETRACHLOROETHYLENE*	>99%	0.081	0.001
TOLUENE (Methylbenzene)*	>99%	0.078	0.001
TOXOPLASMA (See CYST)		minimum 50,000/mL	99.95%
2,4,5-TP (Silvex)*	99%	0.270	0.0016
TRIBROMOACETIC ACID*		0.042	0.001
1,2,4 TRICHLOROBENZENE (Unsymtrichlorobenzene)*	>99%	0.160	0.0005
1,1,1-TRICHLOROETHANE (1,1,1-TCA)*	95%	0.084	0.0046
1,1,2-TRICHLOROETHANE*	>99%	0.150	0.0005
TRICHLOROETHYLENE (TCE)*	>99%	0.180	0.0010
TRIHALOMETHANES (TTHM) (Chloroform; Bromoform; Bromodichloromethane; Dibromochloromethane)	>99.8%	0.300 +/- 0.30	0.015
Unsym-Trichlorobenzene (see 1,2,4- TRICHLOROBENZENE)*	>99%	0.160	0.0005
Vinylbenzene (see STYRENE)*	>99%	0.150	0.0005
XYLENES (TOTAL)*	>99%	0.070	0.001

If you have any questions please contact Quality Medical Supply

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