

RainSoft turns ordinary water into extraordinary water . . .

# Ultrefiner II

## Premium Drinking Water System

### The Ultimate Drinking Water Solution.

With an Ultrefiner II Premium Drinking Water System comes confidence in knowing that you're providing your family with the finest drinking water system available.

RainSoft drinking water systems are noted for being highly efficient and effective when it comes to delivering superior drinking water that your family relies on. The Ultrefiner II utilizes three high quality multi-stage filters designed to address virtually any drinking water concern. Your local RainSoft dealer can help assist you in selecting a system that best fits your water concerns and local water conditions.



A Division of Aquion, Inc.

**Distributed by:**

**RainSoft of Des Moines**

2501 MLK Jr Pkwy  
Des Moines, IA 50310  
800-652-9511

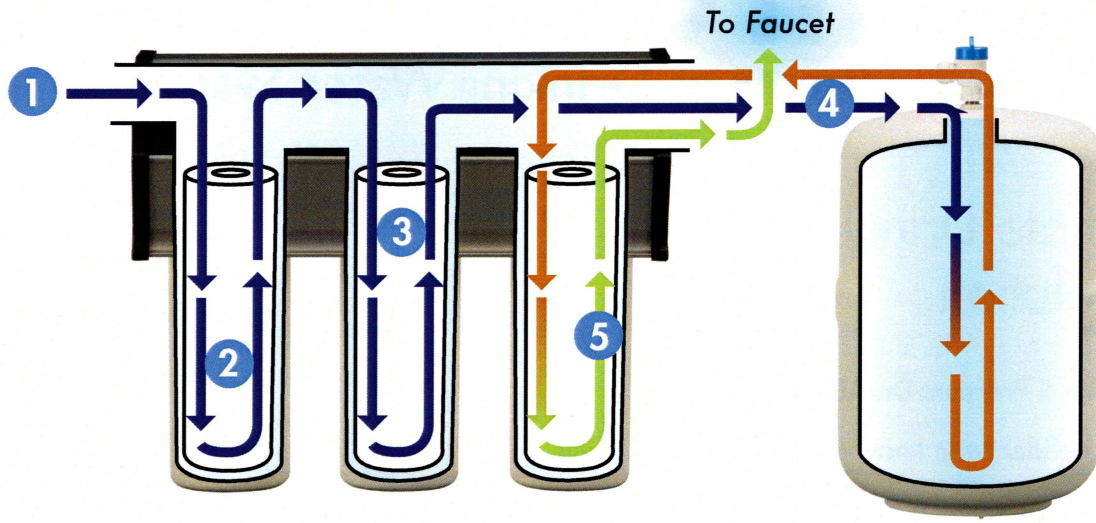
(Each RainSoft dealership is independently owned and operated.)



Ultrefiner II system provides multiple lines of defense to protect the drinking water your family relies on.

- **CARBON BLOCK SEDIMENT PRE-FILTER** reduces chlorine levels and removes particles as small as 10 microns in size from your drinking water.
- **MEMBRANE CARTRIDGE** filters on a molecular level to reduce unwanted inorganic solids such as lead, chromium and copper.
- **CARBON BLOCK SEDIMENT POST-FILTER** reduces harmful Volatile Organic Compounds (VOC's) that pose a threat to human health and the environment.
- **LIMITED LIFETIME WARRANTY** against defects in manufacture for the lifetime of the first purchaser at retail.
- **NSF CERTIFIED** in performance and extraction tests.

## The smart, economical way to enjoy the best water possible.



### How an Ultrrefiner II System Works

1. Water from the inlet valve enters the system.
2. Water is forced through the pre-filter cartridge that reduces particles, chlorine, taste and odor.
3. Water then enters the Ultrrefiner II membrane cartridge where it is filtered through a spiral wound, semi-permeable membrane.
4. The resulting highly filtered water enters a storage tank.
5. Your reverse osmosis water is finally filtered through the system post-filter and dispensed through a dedicated drinking water faucet.

### The Ultrrefiner II Delivers Superior Filtration

The Ultrrefiner II system uses reverse osmosis technology to filter extremely small particles, particles that can easily slip through a less sophisticated filter.



The Ultrrefiner II is installed with a contemporary, lead-free RainSoft faucet offered in either brushed nickel or chrome to accommodate any home décor.

### System Features

- Produces very low sodium "ingredient quality" water for drinking and cooking.
- Green filter design results in disposal of only the filter cartridge rather than the full canister.
- Equipped with a pre-filter, membrane, and post filter designed to effectively reduce chlorine, lead, chromium, copper, and VOC levels from your drinking water.
- Cost saving maintenance – designed with 3 filters rather than the industry average of 5 filters.



Ultrrefiner II models FMV-BNFP, FMV-BNFV, FMV-CHFP, and FMV-CHFV are certified by the NSF International to NSF/ANSI Standard 58 and are tested and certified by WQA to NSF/ANSI 372 for "lead free" Compliance. See performance data sheets for specific reductions claims, individual containments and reduction performance.

CALIFORNIA RESIDENTS: Water treatment devices sold to retail consumers in California accompanied by certain health claims must be certified by the State of California Department of Public Health. Ultrrefiner II-FMV (Certificate No. 12-2120) is certified in California. All other product models are not certified by the State of California for the purpose of making health claims.

Benefits will be provided by various types of RainSoft equipment when installed and operated according to manufacturer's recommendations. Operational, maintenance and replacement requirements are essential for the product to perform as advertised. All claims based on best available information at time of printing. Manufacturer makes no representations as to the suitability of this equipment for a particular application. Buyer relies entirely on dealer's recommendations in the purchase of this equipment. Independent RainSoft dealers may include, together with your RainSoft product, a product or component that is not manufactured by RainSoft or their parent company, Aquion, Inc. Any non-RainSoft product may be covered by the manufacturer of that product, and is not covered by the RainSoft warranty. Aquion, Inc. does not warrant that your RainSoft product and the non-RainSoft product will perform properly when used together, and assumes no liability therefore.

## Ultrefiner II - FMV PREMIUM DRINKING WATER SYSTEM

- AUTOMATIC DRAIN SHUT-OFF VALVE
- MANUAL FAST FLUSH VALVE
- DAILY PRODUCTION RATE = 16.02 GPD
- EFFICIENCY RATING<sup>3</sup> = 17.54%
- RECOVERY RATING<sup>4</sup> = 37.23%
- MAX TDS LEVEL (PPM) = 1400
- CAPACITY FOR VOC REDUCTION: 225 GALLONS
- OPERATING PSI OF SUPPLY: 40 - 100 PSI (275 - 689 kPa)
- OPERATING TEMPERATURE: 50 - 100°F (10 - 38°C)

- pH RANGE: 2 - 11
  - REPLACEMENT FILTERS:
- | DESCRIPTION     | ITEM# |
|-----------------|-------|
| PRE FILTER      | 51635 |
| MEMBRANE        | 51637 |
| POST VOC FILTER | 51636 |

This system has been tested according to NSF/ANSI 58 for reduction of the substances listed below. The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system, as specified in NSF/ANSI 58.

THE UNIT SHOULD BE INSTALLED IN AN AREA NOT AFFECTED BY EXTREME HEAT, COLD, OR THE ELEMENTS. THIS SYSTEM MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL LAWS AND REGULATIONS.

LIST OF contaminant				
CONTAMINANT	AVERAGE INFLUENT CONCENTRATION (mg/L)	AVERAGE EFFLUENT CONCENTRATION (mg/L)	AVERAGE PERCENT REDUCTION	MAXIMUM EFFLUENT CONCENTRATION (mg/L)
ARSENIC <sup>1</sup>	0.29	0.002	99.3	0.003
BARIUM	9.5	0.14	98.5	0.35
CADMIUM	0.031	0.0006	98.1	0.0011
CHROMIUM (HEXAVALENT)	0.3	0.007	97.7	0.013
CHROMIUM (TRIVALENT)	0.31	0.003	99.0	0.006
COPPER	3.0	0.038	98.7	0.069
CYST	26000	5	>99.99	21
FLUORIDE	8.6	0.39	95.5	0.51
LEAD	0.16	0.003	98.1	0.019
NITRATE/NITRITE <sup>2</sup>	32	4.2	87	5.2
RADIUM 226/228	25 pCi/L	5 pCi/L	80	5 pCi/L
SELENIUM	0.1	<0.006	>94.0	<0.006
TDS	750	27	96.4	86
TURBIDITY	11 NTU	0.08 NTU	99.3	0.26 NTU

NSF/ANSI STANDARD 58 TEST CONDITION: 50 ± 3 psi, pH 7.5 ± 0.5, 77 ± 2 °F

DO NOT USE WITH WATER THAT IS MICROBIOLOGICALLY UNSAFE OR OF UNKNOWN QUALITY WITHOUT ADEQUATE DISINFECTION BEFORE OR AFTER THE SYSTEM. SYSTEMS CERTIFIED FOR CYST REDUCTION MAY BE USED ON DISINFECTED WATER THAT MAY CONTAIN FILTERABLE CYSTS. THE SYSTEM CONTAINS REPLACEMENT COMPONENTS CRITICAL FOR EFFECTIVE REDUCTION OF contaminant. THE WATER SHOULD BE TESTED PERIODICALLY (2 TIMES A YEAR MINIMUM) TO VERIFY THAT THE SYSTEM IS PERFORMING SATISFACTORILY.

REPLACE ULTREFINER II - FMV MEMBRANE CARTRIDGE 24 TO 36 MONTHS AFTER INSTALLATION, DEPENDING ON WATER CONDITIONS. A WATER TEST FOR TDS REDUCTION IS THE BEST INDICATOR OF MEMBRANE PERFORMANCE. REPLACE THE PREFILTER AND POST FILTER CARTRIDGES 12 MONTHS AFTER INSTALLATION OR SOONER DEPENDING ON WATER CONDITIONS.

THE INLET FEED WATER SHOULD BE FREE FROM IRON, MANGANESE, SULFUR.

NSF CERTIFIED PERFORMANCE DATA, AS SHOWN ON THE PERFORMANCE DATA SHEET, IS BASED ON OPERATION AT DRAIN SETTING # 2. CERTIFICATION RESULTS DO NOT APPLY TO OTHER SETTINGS.

SEE WARRANTY CARD FOR SPECIFIC WARRANTY INFORMATION

**NOT APPROVED FOR USE IN CALIFORNIA. PLEASE REQUEST CALIFORNIA-SPECIFIC LITERATURE FROM YOUR LOCAL RAIN-SOFT DEALER.**

**IMPORTANT NOTICE:**  
READ THIS PERFORMANCE DATA SHEET AND COMPARE THE CAPABILITIES OF THIS UNIT WITH YOUR ACTUAL WATER TREATMENT NEEDS. IT IS RECOMMENDED THAT BEFORE PURCHASING A WATER TREATMENT UNIT, YOU HAVE YOUR WATER SUPPLY TESTED TO DETERMINE YOUR ACTUAL WATER TREATMENT NEEDS.



Model ULTREFINER II - FMV - BNFP, ULTREFINER II - FMV - BNFV, ULTREFINER II - FMV - CHFP and ULTREFINER II - FMV - CHFV are tested and certified by NSF International against NSF/ANSI 58 for the reduction of claims specified on the performance data sheet.



## Ultrrefiner II - FMV PREMIUM DRINKING WATER SYSTEM

**VOC, Standard 53 Reduction Claims <sup>5</sup>**

CONTAMINANT	INFLUENT CHALLENGE CONCENTRATION mg/L	MAXIMUM PERMISSIBLE PRODUCT WATER CONCENTRATION mg/L	USEPA MCL (MG/L)
ALACHLOR	0.050	0.001	0.002
ATRAZINE	0.100	0.003	0.003
BENZENE	0.081	0.001	0.005
CARBOFURAN	0.190	0.001	0.04
CARBON TETRACHLORIDE	0.078	0.0018	0.005
CHLOROBENZENE	0.077	0.001	0.1
CHLOROPICRIN	0.015	0.0002	-----
2,4-D	0.110	0.0017	0.07
DIBROMOCHLOROPROPANE (DBCP)	0.052	0.00002	0.0002
O-DICHLOROBENZENE	0.080	0.001	0.60
P-DICHLOROBENZENE	0.040	0.001	0.075
1,2-DICHLOROETHANE	0.088	0.0048	0.005
1,1-DICHLOROETHYLENE	0.083	0.001	0.007
CIS- 1,2-DICHLOROETHYLENE	0.170	0.0005	0.07
TRANS- 1,2-DICHLOROETHYLENE	0.086	0.001	0.10
1,2-DICHLOROPROPANE	0.080	0.001	0.005
CIS-1,3-DICHLOROPROPYLENE	0.079	0.001	-----
DINOSEB	0.170	0.0002	0.007
ENDRIN	0.053	0.00059	0.002
ETHYLBENZENE	0.088	0.001	0.70
ETHYLENE DIBROMIDE (EDB)	0.044	0.00002	0.00005
HALOACETONITRILES (HAN):			
BROMOCHLOROACETONITRILE	0.022	0.0005	-----
DIBROMOACETONITRILE	0.024	0.0006	-----
DICHLOROACETONITRILE	0.0096	0.0002	-----
TRICHLOROACETONITRILE	0.015	0.0003	-----
HALOKETONES (HK):			
1,1-DICHLORO-2-PROPANONE	0.0072	0.0001	-----
1,1,1-TRICHLORO-2-PROPANE	0.0082	0.0003	-----
HEPTACHLOR	0.025	0.00001	0.0004
HEPTACHLOR EPOXIDE	0.011	0.0002	0.0002
HEXACHLOROBUTADIENE	0.044	0.001	-----
HEXACHLOROCYCLOPENTADIENE	0.060	0.000002	0.05
LINDANE	0.055	0.00001	0.0002
METHOXYCHLOR	0.050	0.0001	0.04
PENTACHLOROPHENOL	0.096	0.001	0.001
SIMAZINE	0.120	0.004	0.004
STYRENE	0.150	0.0005	0.10
1,1,2,2-TETRACHLOROETHANE	0.081	0.001	-----
TETRACHLOROETHYLENE	0.081	0.001	0.005
TOLUENE	0.078	0.001	1.00
TRIBROMOACETIC ACID	0.042	0.001	-----
2,4,5-TP (SILVEX)	0.270	0.0016	0.05
1,2,4-TRICHLOROBENZENE	0.160	0.0005	0.07
1,1,1-TRICHLOROETHANE	0.084	0.0046	0.20
1,1,2-TRICHLOROETHANE	0.150	0.0005	0.005
TRICHLOROETHYLENE	0.180	0.001	0.005
TRIHALOMETHANES	0.300	0.015	0.08
XYLENES (TOTAL)	0.070	0.001	10

NSF/ANSI STANDARD 53 TEST CONDITION: 60 ± 3 psi, pH 7.5 ± 0.5, 68 ± 5 °F

1. THESE SYSTEMS HAVE BEEN TESTED FOR THE TREATMENT OF WATER CONTAINING PENTAVALENT ARSENIC (ALSO KNOWN AS As(V), As(+5), OR ARSENATE) AT CONCENTRATIONS OF 0.30 mg/L OR LESS. THIS SYSTEM REDUCED PENTAVALENT ARSENIC, BUT MAY NOT REMOVE OTHER FORMS OF ARSENIC. THIS SYSTEM IS TO BE USED ON WATER SUPPLIES CONTAINING A DETECTABLE FREE CHLORINE RESIDUAL AT THE SYSTEM INLET OR ON WATER SUPPLIES THAT HAVE BEEN DEMONSTRATED TO CONTAIN ONLY PENTAVALENT ARSENIC. TREATMENT WITH CHLORAMINE (COMBINED CHLORINE) IS NOT SUFFICIENT TO ENSURE COMPLETE CONVERSION OF TRIVALENT ARSENIC TO PENTAVALENT ARSENIC. PLEASE SEE THE ARSENIC FACT SECTION OF THE PERFORMANCE DATA SHEET FOR FURTHER INFORMATION.
2. THE ULTRREFINER II IS ACCEPTABLE FOR TREATMENT OF INFLUENT CONCENTRATIONS OF NO MORE THAN 27 mg/L NITRATE AND 3 mg/L NITRITE IN COMBINATION MEASURED AS "N" AND IS CERTIFIED FOR NITRATE/NITRITE REDUCTION ONLY FOR WATER SUPPLIES WITH A PRESSURE OF 280 kPa (40 psig) OR GREATER. ADDITIONAL TREATMENT OR INDIVIDUAL DESIGN SHALL BE REQUIRED FOR HIGHER INFLUENT LEVELS. IF YOU ARE RELYING ON THE ULTRREFINER II FOR NITRATE REDUCTION, WE RECOMMEND TESTING YOUR WATER PERIODICALLY (2 TIMES A YEAR MINIMUM) WITH A NITRATE TEST KIT (SUPPLIED) TO ENSURE THAT THE SYSTEM IS PERFORMING PROPERLY. ADDITIONAL NITRATE TEST KITS (PART NUMBER 12061) CAN BE PURCHASED FROM YOUR LOCAL RAINSOFT DEALER.
3. EFFICIENCY RATING MEANS THE PERCENTAGE OF INFLUENT WATER TO THE SYSTEM THAT IS AVAILABLE TO THE USER AS REVERSE OSMOSIS TREATED WATER UNDER OPERATING CONDITIONS THAT APPROXIMATE TYPICAL DAILY USAGE.
4. RECOVERY RATING MEANS THE PERCENTAGE OF THE INFLUENT WATER TO THE MEMBRANE PORTION OF THE SYSTEM THAT IS AVAILABLE TO THE USER AS REVERSE OSMOSIS TREATED WATER WHEN THE SYSTEM IS OPERATED WITHOUT A STORAGE TANK OR WHEN THE STORAGE TANK IS BYPASSED.
5. REDUCTIONS SHOWN ARE FOR VOLATILE ORGANIC CHEMICALS/COMPOUNDS (VOC) AS PER NSF TABLES. CHLOROFORM WAS USED AS A SURROGATE FOR VOC CLAIMS REDUCTION. THE ACTUAL REDUCTION RATE OF CHLOROFORM WAS 99.7% AS TESTED BY NSF INTERNATIONAL AT 200% CAPACITY (I.E 450 GALLONS) PER NSF/ANSI 53 STANDARD.

For purchases made in the State of Iowa: This form must be signed and dated by the buyer and seller prior to the consummation of this sale. The seller for a minimum of two years should retain this form on file.

Buyer \_\_\_\_\_  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
 Signature \_\_\_\_\_ Date \_\_\_\_\_

Seller \_\_\_\_\_  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
 Signature \_\_\_\_\_ Date \_\_\_\_\_