

# ULTRAFILTRATION SYSTEMS



## BRANEWAVE™ UF SYSTEMS 0.02 MICRON ULTRAFILTRATION



Cutaway view of  
BraneWave UF System  
with Automatic  
Backflush Valve

BraneWave UF Systems  
contain NSF 61 certified  
membrane and all  
wetted parts.

### BraneWave UF Systems — SMART UF TECHNOLOGY

SWT does it again! We've made the filtration of sub-micron particles simple, affordable, and available at a high flow rate. SWT's BraneWave UF Systems are capable of removing all waterborne pathogens and colloids to provide particulate-free, pure water on demand.

Using the highest quality materials, we have packed more than five miles of membrane into a point-of-entry, ultrafiltration, water treatment system requiring no pumps, storage tanks, or solenoids. BraneWave UF Systems are available with automatic backflush control valve (AC adapter or solar panel power supply) or manual backflush valve. Made in USA.

#### Features and Benefits

- 0.02 micron absolute filtration (99.99% removal)
- Automatic backflush valve (AC adapter or solar panel power supply) or manual valve included
- Bottom drain assembly available
- Easy maintenance
- Reversible flow
- No pumps or storage tanks needed
- Parallel, triplex, or quad systems available
- Can be manifolded for commercial flow rates

**System Removes:** Bacteria, cysts, viruses, colloids (iron, manganese), color, tannins (organics), silt

**System Includes:** Chrome tank jacket, factory pre-set programmable controller, 1 inch fittings

**Applications:** Seasonal homes, sprayers and misting equipment, restaurants, RO pre-filtration, parts washing, lumber and mining camps, commercial boats, second and third world areas, disaster areas. *Replaces UV and chlorination when no electricity is available.*

**Options:** Clean water backflush, BraneWave System Sanitizer, bypass valve, bottom drain assembly

#### Specifications

Service Flow Rate.....	12 gpm (45.4 lpm) Peak 10 gpm (37.9 lpm) Cont.
Backflush Rate .....	3.0 gpm (11.4 lpm)
Temperature Range .....	35 to 120°F (1.7 to 49°C)
Operating Pressure	
Membrane.....	10 to 120 psi (0.7 to 8.3 bar)
System .....	20 to 120 psi (1.4 to 8.3 bar)
Unit Dimensions .....	9 x 54.25 inch (22.9 x 137.8 cm)
Unit Weight.....	35 lb (15.9 kg)
Sanitization Port .....	3/8 inch
Drain Port .....	3/4 inch
Pre-filtration .....	5 micron or less
Max. Chlorine Allowed .....	1.0 ppm (200 ppm for cleaning)

#### Average Reduction

Bacteria.....	4.4 log
Virus .....	2.4 log
Cyst.....	2 log (est)



Solar Panel

### BraneWave UF Systems

Part Number	Power Supply	Flow Rate			Overall Dimensions	Connection Size
		Peak Service	Cont. Service	Backflush		
UFA12C	AC Adapter	12 gpm	10 gpm	3.0 gpm	54"H x 14.5"D x 9.5"W	1 inch Brass Sweat
UFA12C-SP	Solar Panel	12 gpm	10 gpm	3.0 gpm	54"H x 14.5"D x 9.5"W	1 inch Brass Sweat
UFM12F	Manual	12 gpm	10 gpm	5.0 gpm	54"H x 14.5"D x 9.5"W	1 inch Brass MNPT
UFA06C	AC Adapter	6 gpm	5 gpm	3.0 gpm	34"H x 14.5"D x 9.5"W	1 inch Brass Sweat
UFA06C-SP	Solar Panel	6 gpm	5 gpm	3.0 gpm	34"H x 14.5"D x 9.5"W	1 inch Brass Sweat
UFM06F	Manual	6 gpm	5 gpm	5.0 gpm	34"H x 14.5"D x 9.5"W	1 inch Brass MNPT

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## Optional Equipment

Part Number	Description
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### 2.5 x 20 inch Pre-Filter Components

SO72005	2.5 x 20 System-Guard™ Spun PP Cartridge, 5 micron, 6–10 gpm
SO72001	2.5 x 20 System-Guard™ Spun PP Cartridge, 1 micron, 6–10 gpm
YH16511	20" Easy Service Housing with Lock Ring & Push-Button Pressure Relief, 1" FPT Ports
YH40010	L-Shaped Bracket for One (1) Easy Service Housing, White, Metal
YH40025	L-Shaped Bracket for Two (2) Easy Service Housings, White, Metal
YH40110	Wrench for Easy Service Housing
YH-G10105	Buna-N O-ring for Easy Service Housing

### 4.5 x 20 inch Pre-Filter Components

SO72005-BB	4.5 x 20 Jumbo Dual-Gradient PP Cartridge, 50 / 5 micron, 10+ gpm
SO72001-BB	4.5 x 20 Jumbo Dual-Gradient PP Cartridge, 25 / 1 micron, 10+ gpm
CB97010	4.5 x 20 Jumbo Carbon Block Cartridge, 10 micron, 4–7 gpm
MA-15526303	4.5 x 20 Jumbo Radial-Flow Iron Reduction Cartridge, 20 micron, 3–6 gpm
YH16512	20" Jumbo Easy Service Housing with Lock Ring & Push-Button Pressure Relief, 1" FPT Ports
YH40030	L-Shaped Bracket for One (1) Jumbo Housing, White, Metal
YH40120	Wrench for Jumbo Housing
YH-G10122	Buna-N O-Ring for Jumbo Housing

### Sanitizer Systems

UF-BW-SAN	BraneWave™ System Sanitizer, 10 x 16, 3 gallon feed
APS-CSA-1	Chlorastick™ Pipe Sanitizer, 1" FNPT, includes one chlorine module — <i>For Pipes Only (not for UF Systems)</i>

### Tech Series Automatic Backwashing Pre-Filters

FFA100C	9 x 48 FilterEase™ Filter, 1" Brass Sweat, 4–7 gpm Service, 4.5 gpm Backwash
FFA150C	10 x 54 FilterEase™ Filter, 1" Brass Sweat, 4–9 gpm Service, 5.0 gpm Backwash
MFA075C-025	9 x 48 MetalEase™ Filter, 1" Brass Sweat, 4–6 gpm Service, 9.0 gpm Backwash
MFA113C-027	10 x 54 MetalEase™ Filter, 1" Brass Sweat, 6–8 gpm Service, 12.0 gpm Backwash

### Bottom Drain Accessories

BD-25-34BVGH	Bottom Drain Assembly, 3/4" FPT, includes 2.5" x 3/4" PVC Bottom Adapter, Connector, Elbow, 3/4" FPT Ball Valve, Brass Garden Hose Adapter, PVC Plug
SM-CL258	Bottom Plug, 2.5"-8 NPSM
SM-TR1258	Bottom Adapter, 2.5"-8 NPSM x 1" FNPT

### Replacement UF Module

UF-BW-RM-CF	BraneWave™ UF Module
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### BraneWave UF Field Test Kit

UF-INLINE-FT-KIT	Field Test Kit includes: (1) BraneWave™ UF Field Test Module; (2) Female Adapter, 1" FBSP x 1" ASTM spigot, Sch40 PVC; (2) Reducer Bushings, 1" spigot x 3/4" FPT, Sch80 PVC; (2) Reducer Bushings, 3/4" MPT x 1/4" FPT, Sch80 PVC; (2) Plugs, 3/4" MPT, Sch80 PVC; (1) Coupling, 3/4" MPT or 1/2" FPT x 3/4" garden hose, brass; (1) Diverter Valve Kit with 1/4" elbow; (1) Diverter Adapter, 15/16", brass; (1) Diverter Adapter, 13/16", brass; (1) Long Reach Spout Kit with 1/4" elbow, chrome plated
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**WARNING:** These systems are intended for the disinfection of microbiologically contaminated water that meets all other public health standards. These systems are not intended for the treatment of water that has an obvious contamination or intentional source, such as raw sewage. These systems are not intended to convert wastewater or raw sewage into potable drinking water. These systems are intended for use on visually clear water.