Introducing our revolutionary **ONLY Cartridge Filters**, for all your filtration needs.

**Say Goodbye**

To all other filters

**ONLY FILTER**
- High flow rates
- Not costly
- Very efficient
- NO tools necessary
- Easy to handle
- High filtration surface
- Very easy servicing
- Long lasting cartridges

**Other Filters**
- Low flow rates
- Costly
- Not efficient
- Tools required
- Difficult to handle
- Not good filtration surface
- Difficult servicing
- Monthly cartridge replacement

Introducing our revolutionary new **ONLY Filtration Cartridges**

Get rid of small and inefficient 2.5" or 4.5" plastic housings. The **ONLY Filtration Cartridges** is a corrosion-free liquid filtration solution offering extended life, service and chemical resistance.

It also has an easily accessible wide mouth opening so you can customize it with any of our filters.

**COMPONENT**

This pressure vessel is tested and Certified by WQA International against NSF/ANSI Standard 61 for materials and structural integrity requirements.

**Watch® GmbH**

Fahrlachstr. 14 68165 Mannheim  
Telefon: +49 (0) 621 87951-0  
Telefax: +49 (0) 621 87951-99  
email: info@watchwater.de

[www.watchwater.de](http://www.watchwater.de)
Table of Content

ONLY Cartridge Filtration System ................................................................................................................................... 3
  Design Schematic ...................................................................................................................................................... 4
  Connections for ONLY Filtration System ............................................................................................................... 5

ONLY XL Cartridges Great Systems ............................................................................................................................ 7
  System Description .................................................................................................................................................. 8
  BIG WHITE refillable Empty Cartridges .................................................................................................................. 10

ONLY FILTRATION SERIES ............................................................................................................................................. 11
  DOUBLE PLEATED Filtration Series ............................................................................................................................ 12
  UNIQUE Filtration Series ....................................................................................................................................... 13
  CARBON BLOCK Filter ............................................................................................................................................. 14
  WOUNDED Cartridge Filter ................................................................................................................................... 15
  PLEATED Filtration Series ...................................................................................................................................... 16
  MELTBLOWN Filtration Series .................................................................................................................................. 17
  EASY Ultra Filtration ............................................................................................................................................... 18
ONLY Cartridge Filtration System

Say goodbye to small and inefficient housings. Get rid of expensive stainless steel housings. The ONLY Cartridge Filter offers extended life and service, and a more cost effective and efficient filtration solution.

This revolutionary, patent pending filtration system features easy to-access top and bottom openings for use with various filtration connections and solutions. Lightweight and cost effective with multiple configuration options, this is the filtration solution of the future...100% non-metallic!

Utilizing ONLY patented, industry exclusive liner design, the vessel features three optional top and bottom opening connections for use with a pressure release valve configuration or a control valve/in-out head, along with bottom or top drain plumbing connections for residential and light commercial installations. The patent pending, no-tools-required snap-ring design makes it easy to remove top and bottom opening connections to access the internal filtration solution. Full radial seal top and bottom caps make replacement simple.

The ONLY Cartridge Filter is a direct replacement for small and inefficient 2.5" or 4.5" housings, or expensive Stainless Steel cartridge housings. Designed for fast and easy access, the Pressure Release top opening with plumbing connections at the bottom allows the end-user to access and service the filter without disrupting the plumbing. The Cartridge Filter is a high performance device and has been tested to 10 bar operating pressure.

CARTRIDGE FILTER APPLICATIONS

- Whole house POE requirements whether for city or well water applications
- Extreme loading conditions, RO systems and any other pretreatment applications where high service flow and low pressure drop requirements are required or desirable
- For customers that are tired of having to change their small 2.5" or 4.5" filters on a weekly or monthly basis
- Replacement solution for expensive stainless steel housings
- 100% plastic design
- Ideal for most problem water issues where particulate contaminated water is concerned, with lower shear velocity these filters can load properly with particulates, unlike conventional filtration

ONLY is a Watch® Filtration Technology

Available in 5 standard colors. Custom colors available upon request

Natural  Blue  Almond  Grey  Black
Cartridge Filter Plumbing Schematic

Untreated Water

90° ball valve
Union (optional)

90° ball valve

TANK

“Tank” side of T-drain

RISER

“Riser” side of T-drain

Union (optional)

90° ball valve

Treated Water

Total Height: 1010 mm

Diameter
200 mm
CONNECTIONS

FOR ONLY FILTRATION SYSTEM

Top cap with pressure vessel valve

Snap ring for Top & bottom caps

2 1/2" bottom cap

4" bottom cap

2 1/2" inlet-outlet connection

4" inlet-outlet connection
The 2.5" threaded PVC connection drain features a glue socket of 1.315" for multiple pipe requirement connections; while the 4.5" threaded PVC drain features a full 2.375" pipe socket connection.

All glue joints and connections are contained underneath and/or inside the vessel base, providing clean connections and visibly attractive system suitable for homeowners, businesses and consumers.

**ONLY Cartridge Filtration System** for Point-of-Entry (POE) installations and applications. With multiple configuration options, this is the filtration solution of the future. Features include:

- Easy-to-access top and bottom opening for use with multiple filtration connections and solutions - in a lightweight and cost effective package.
- Patent pending no tools necessary snap-ring design makes it easy to access the internal filtration solution. Full radial seal top and bottom caps make replacement simple.
- 100% non-metallic, multiple filtration solutions
- Ideal design for cartridge use is the Pressure Release top opening with the plumbing connections at the bottom, so the end-user does not have to disrupt plumbing to access and service the filter.
- The ONLY Cartridge Filter is tested to 150 psi operating pressure for high performance

3.5" threaded PVC connection drain features a glue socket of 1.315" for multiple pipe requirement connections; while the 4.5" threaded PVC drain features a full 2.375" pipe socket connection.

All glue joints and connections are contained underneath and inside the vessel base, for clean connections and a visibly attractive Systems for homeowners, businesses and consumers.
**ONLY XL Cartridges**

**Great Systems FOR Point-of-Entry**

- Scale Prevention
- Corrosion Protection
- Arsenic Removal
- Lead Removal
- Copper Removal
- Phosphate Removal
- Uranium Removal
- Chromium Removal
- Flouride Removal
- Dosing Equipment

---

**Watch® Water GmbH**  
Fahrstr. 14  68165 Mannheim  
Telefon: +49 (0) 621 87951-0  
Telefax: +49 (0) 621 87951-99  
email: info@watchwater.de

[www.watchwater.de](http://www.watchwater.de)
System Description:

The WATCH® Great Point-Of-Entry Systems are pre-piped systems which are designed to remove any contaminants from water and waste water.

Unit (1 + 2) run while (3 + 4) remain in standby.
- **valve status:****
  - valve 1 + valve 2: OPEN
  - valve 3 + valve 4: CLOSED

Unit (3 + 4) run when (1 + 2) are stopped for maintenance.
- **valve status:****
  - valve 1 + valve 2: CLOSED
  - valve 3 + valve 4: OPEN

ONLY XL Cartridges Great System (Design Schematic)

It is Great because it consists of two complete (1 + 2) and (3 + 4) ANYTHING removal plug-and-play modular assemblies, piped together in series so that when the capacity of the first (1 + 2) system is exhausted, the second (3 + 4) system continues to provide treated water and the cartridges in the first system can be replaced with new filter media of choice. It is absolutely recommended to use pre-filters to remove any particular material entering with the feed water. The pre-filter is a 20, 10 or 5 micron filter cartridge. Use of 1 micron filter cartridge is recommended.
**ONLY XL Cartridges**

**Great Systems**

Water Great Systems (1 + 2) and (3 + 4) are 8" diameter Filter housing, each containing a Double media cartridge. The units are pre-piped where (1 + 2) operate in parallel as an independent system. (3 + 4) also operate in parallel but is in stand-by mode and is used during the maintenance/servicing of (1 + 2). Depending on contaminant and application, each system produces a flow from 3 - 10 m³/hr. A proper operation of the overall system will maximize cartridge lifetime and minimize costs.

A booster pump with pressure tank and pressure switch can be provided if a drop in pressure is observed after the Great System.

All piping and ball valves are glued PVC. The inlet/outlet connections are 1", 1½" or 2" female sockets.

The Great System comes as a ready-to-use unit built on a Euro Pallet of dimension 80x120 cm.
The Biggest XL Refillable Cartridge

Description
Watch Water's biggest XL empty media cartridge is the ONLY FILTER housing which is full of advantages that no other cartridges can have. **BIG WHITE** empty cartridges can be filled with your Filtration media, Ion exchange resins, mixed bed resins or any adsorbers of your choice in order to create a best choice of very high capacity filter on very low cost. Low cost products are having a huge demand in places where people have water full of contaminants. These are the cartridges for solving present and future water problems.

LIST OF WATCH PRODUCTS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PRODUCTS</th>
<th>APPLICATION</th>
<th>TYP</th>
<th>FLOW / HOUR (m³/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BWSP</td>
<td>Filtersorb-SP3</td>
<td>Scale prevention</td>
<td>SP</td>
<td>0.5 – 3.0</td>
</tr>
<tr>
<td>BWSPA</td>
<td>Filtersorb-SP3 + Activated carbon</td>
<td>Scale prevention + Adsorber, Chlorine removal, odor and organic adsorption</td>
<td>SPA</td>
<td>1.0</td>
</tr>
<tr>
<td>BWHS</td>
<td>Filtersorb-HSR</td>
<td>Removal of Hydrogen Sulphide, Phosphates, Copper, Lead and other Heavy Metals</td>
<td>HS</td>
<td>2.0 (one cartridges) 3.0 (two cartridges)</td>
</tr>
<tr>
<td>BWT</td>
<td>Titansorb</td>
<td>Highest capacity, Arsenic and Heavy Metal removal</td>
<td>T</td>
<td>2.0</td>
</tr>
<tr>
<td>BWFL</td>
<td>Flashsorb</td>
<td>High capacity, Fluorides removal</td>
<td>FL</td>
<td>2.0</td>
</tr>
<tr>
<td>BWNC</td>
<td>NewClearsorb</td>
<td>Radionuclides, uranium, radium, cesium</td>
<td>NC</td>
<td>2.0</td>
</tr>
<tr>
<td>BWKL</td>
<td>Katalox - Light</td>
<td>Iron- Manganese + suspended solids up to 3 microns.</td>
<td>KL</td>
<td>1.0</td>
</tr>
</tbody>
</table>

OTHER PRODUCTS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PRODUCTS</th>
<th>APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>BWMB</td>
<td>Mix bed resin</td>
<td>De-mineralisation</td>
</tr>
<tr>
<td>BWCS</td>
<td>Cation resin (strong acid)</td>
<td>Softening</td>
</tr>
<tr>
<td>BWCW</td>
<td>Dealkalisation</td>
<td>De-alkalisation</td>
</tr>
<tr>
<td>BWNi</td>
<td>Anion exchange selective</td>
<td>Nitrates removal</td>
</tr>
</tbody>
</table>

XL - Extra Large
ONLY Filter Series

- DOUBLE PLEATED Filtration Series
- UNIQUE Filtration Series
- CARBON BLOCK
- WOUNDED Cartridge Filters
- PLEATED Filtration Series
- MELTBLOWN Filtration Series
- EASY Ultra Filtration
TYPE: DOUBLE PLEATED Filtration Series

ONLY simplifies the filtration process and offers a variety of options to suit your needs.

The DOUBLE PLEATED Series offer:

- Higher water quality and longer life of the filtration system, due to a lower shear water velocity as the raw water passes through the filter, to allow for more contact time and more interaction with the extensive surface area of the filters.

- The filters will outperform available filtration solutions in all turbidity applications including insoluble scale, Fe³⁺, bacterial iron slime, colloidal solids, silt, rust, and other particle filtration.

- Each filter comes with a unique handle designed top cap for lightweight and easy removal, a bag for proper disposal, and a double o-ring bottom connection into the WATCH® Cartridge Filter plumbing adapter for the 2.5" plumbing connections and 1¼" flow rates.

The Double Pleated Filtration Series are offered in double pleated layers for extended life and use, with filtration levels of 5, 10 and 20 microns, each with a larger pre-filtration layer on the outside and the smaller on the inside, to extend filtration level contamination.

3 filter configurations:
- 5 micron inner filter, outer 10 micron pleated pre-filter layer
- 10 micron inner filter, outer 20 micron pleated pre-filter layer
- 20 micron inner filter, outer 20 micron pleated pre-filter layer

Based on testing performance:
- 7 m³/h flow rate, pressure loss through the filters is less than 0.21 bar
- 2.3 m³/h flow rate, pressure loss through the filters is less than 0.07 bar

Note that while testing was performed under standard laboratory conditions, actual performance may vary.
TYPE: UNIQUE Filtration Series

The UNIQUE Filtration Series are offered in double pleated layers for extended life and use, with a unique filtration solution, each with a larger filtration layer on the outside and the smaller on the inside, to extend filtration level contamination.

WATCH’s Cartridge Filter series of pleated filter cartridges features a thermally bonded blend of micro-glass fibers & cellulose infused with UN-alumina fibers in a non-woven matrix that creates an electro positive charged depth filter media. When assembled into a pleated cartridge, our solution offers a unique combination of efficiency, capacity, flow rate & low pres-sure drop at levels unmatched in today’s filtration marketplace. In addition, all filter cartridges are assembled using only FDA-compliant materials.

Applications:
- Primary Filtration in lieu of micro-porous membranes
- Make Up Water (particulate, microbial control)
- Polishing Filters (carbon fines, emulsified oil removal)
- RO Pre-filtration (SDI reduction)
- Process Water (turbidity, particulate, colloidal suspensions)
- Waste Water (organics, proteins, dyes)
- Cooling Towers, Chill Water Loops (iron removal)

Materials of Construction:
Media:  UN - Al™ Media
Polypropylene (pre-filter layer)
Support: Polypropylene, Hot Melt
O-rings: Buna-N

Operating Conditions:
Temperature: 4 - 66°C (39 - 150°F)
pH Range: 5 to 10

3 filter configurations, each with a 20 micron pre-filter:
- UN-Al™ white
- UN-Al™ with Agion® Biostat,
- PAC version of UN-Al with Agion® Biostat

Based on testing performance:
- 8.0 m³/h flow rate, pressure loss through the filters is less than 0.55 bar
- 2.3 m³/h flow rate, pressure loss through the filters is less than 0.07 bar.

Retention Characteristics:
- Silt Density Index (SDI) < 0.5
- >99.99% Efficiency at 0.2 microns (latex spheres)
- >4 LRV Cyst Retention
- >5 LRV Klebsiella terrigena Retention
- <0.01 NTU until Terminal ΔP: 2.4 bar (35 psi)
- Dirt Holding Capacity: 883 g/m² (82 g/ft²)
- >757,000 liters or 200,000 gallons treatment capacity (third party testing)

<table>
<thead>
<tr>
<th>Type</th>
<th>Flow Rate (lpm)</th>
<th>Type of Water</th>
<th>Turbidity In</th>
<th>Turbidity Out</th>
<th>SDI/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>CT-20/UN-AG</td>
<td>8</td>
<td>Municipal Tap Water</td>
<td>0.57</td>
<td>&lt;0.01</td>
<td>0.2 ± 0.5</td>
</tr>
<tr>
<td>CT-20/UN-PAC-AG</td>
<td>8</td>
<td>Municipal Tap Water</td>
<td>0.57</td>
<td>&lt;0.01</td>
<td>0.2 ± 0.5</td>
</tr>
</tbody>
</table>

Flow rate, m³/h vs. ΔP, bar

Distributor:
www.watchwater.de
TYPE: CARBON Filter

ONLY simplifies the filtration process and offers a variety of options to suit your needs. The CARBON BLOCK Filtration Series offer:

WATCH Cartridge Filter is a direct replacement for small and inefficient 2.5" or 4.5" housings, or expensive Stainless Steel cartridge housings, specifically designed for Residential, Light Commercial, and Commercial installations and applications.

The Carbon Filtration Series incorporates carbon block filter technology that is highly effective at reducing bad taste and odor from potable drinking water. The filters are made using high performance coconut shell carbon, which has more micro pores compared to other types of carbon.

Coupled with a unique binder system, these carbon block filters deliver a product with superior adsorption capacity and kinetic dynamics. These high capacity filters provide cost effective water filtration solutions in a filter size and configuration that offers ease-of-use, extended service life and capacity, at low pressure loss.

All components and materials are FDA approved, Manufactured from NSF/ANSI-61 Certified Coconut Shell carbon, and are California Prop 65 Compliant.

**Features:**
- High-performance carbon
- Unique binder system
- Proprietary manufacturing process
- Outer Wrap of Polypropylene
- Netting of Polyethylene

**Benefits:**
- Exceptionally low pressure drop
- High dirt holding capacity
- Excellent contaminant reductions

**Application:**
Ideal for Residential, Food Service, Commercial and Industrial applications. Effective at reducing unwanted bad taste and odor, along with chlorine taste and odor from potable drinking water. Ideal as polishing or pre-filters in applications requiring fine filtration and high capacity.

Available in two filter configurations:
- 3 Micron Carbon Block, High Capacity*
- 20 Micron Carbon Block, High Porosity/Low Pressure Drop

*Nominal 3 micron rated filter has been 3rd party tested to treat 1000m³ of water @ 1.6 m³/h with 2 ppm of chlorine.
Only simplifies the filtration process and offers a variety of options to suit your needs. The WOUNDED Filtration Series offer:

This WOUNDED Filtration Series offers a combination filter composed of an outer layer of Polypropylene String with a Melt blown Polypropylene Core. These dual media filters provide a cost effective, extended-life product capable of capturing a broad range of particulates with high service flow rates up to 15 m³/h with less than 1 bar.

Features:
- Outer pre-filter manufactured using 100% polypropylene yarn
- Precision pattern captures 20 or 50 microns or larger
- Extends service life of inner filter
- Outer filter captures fine sediment, sand, silt, rust and scale particles.
- Melt blown inner filter manufactured using thermally bonded polypropylene fibers
- Minimal pressure drop
- Consistent downstream flow w/out fiber migration

Application:
- Potable water
- Food/beverage
- Pre RO
- Fine chemicals
- Electronics
- Metal finishing
- Plating solutions
- Oxidizing agents
- Corrosive fluids
- Gases
- Concentrated acids and alkali

Benefits:
- Microorganism resistant
- NSF/ANSI-61 component
- Nominally rated as stated
- High purity
- Excellent chemical resistance
- High dirt holding capacity
- Graded density

Available in two filter configurations:
- 20 Micron String Wound Outer Layer with a 5 micron Meltblown PP Core
- 50 Micron String Wound Outer Layer with a 20 micron Meltblown PP Core

Performance claims are based on independent lab results and manufacturer’s internal test data. Actual performance is dependent on influent water quality, flow rates, system design and applications. Your results may vary. Micron ratings based on 85% or greater removal of a given particle size. Estimated capacity using 2 ppm free chlorine with greater than 90% reduction. Performance data has not been tested validated by NSF. Flush new cartridges until water runs clear prior to use. Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

Distributor:

www.watchwater.de
TYPE: PLEATED Filtration Series

ONLY simplifies the filtration process and offers a variety of options to suit your needs. The PLEATED Series offer:

The PLEATED Filtration Series are pleated Polypropylene cartridges, with multiple levels of filtration flexibility:

The pleated cartridges are for service flow rates up to 34 m³/h, with low pressure drop of less than 1 bar, are 100% cellulose free media, and cleanable 5 micron and up.

The Pleated Active Carbon (PAC) cartridge is for a service flow rate of 34 m³/h with a removal capacity of 530 m³, with a 90% chlorine reduction. This dramatically improves the quality of water by reducing chlorine, bad taste, foul odors and sediment.

Install ONLY filters in parallel to achieve higher flow rates or in a series for step filtration, allowing various micron ratings in each Cartridge Tank. This makes ONLY filters an attractive option for those applications that require versatility.

4 filter configurations:
- 20 micron
- 5 micron
- 1 micron absolute
- Activated Carbon (PAC) impregnated cartridge.

Low Pressure Drop

ONLY filters are designed to minimize pressure drop by using 2" pipe fittings and large diameter center tubes. (see chart for pressure drop data using pleated cartridges)

Installation and Replacement:

The ONLY Cartridge Filtration System is designed to be simple and easy to install and service.
In combination with our patent pending no tools necessary snap-ring design and Filter Cartridge solution, ONLY makes it fast and easy.
**TYPE: MELTBLOWN Filtration Series**

ONLY simplifies the filtration process and offers a variety of options to suit your needs.

The MELTBLOWN Pleated Series offer:

Higher water quality and longer life of the filtration system, due to a lower shear water velocity as the raw water passes through the filter, to allow for more contact time and more interaction with the extensive surface area of the filters.

Each filter comes with a unique handle designed top cap for lightweight and easy removal, and a bag for proper disposal, along with a double o-ring bottom connection into the WATCH Cartridge Filter plumbing adapter for the 4.5” plumbing connections and 2” pipe size flow rates.

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Maximum flow rate (Pleated)</th>
<th>Max. flow rate (1 Micron Absolute)</th>
<th>Max. flow rate (Depth)</th>
<th>Max. flow rate (Activated Carbon)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum flow rate (Pleated)</td>
<td>34 m³/h</td>
<td>11.3 m³/h</td>
<td>22.7 m³/h</td>
<td>3.4 m³/h</td>
</tr>
<tr>
<td>Cartridge end caps</td>
<td>Glass reinforced PP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>O-rings (Cartridge)</td>
<td>EPDM</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The Meltblown Polypropylene Depth, also known as the Meltblown Filtration Series, are ideal for reduction of soft particulate and high service flow rates up to 22.7 m³/hr.

ONLY MELTBLOWN Filtration Series are tough, durable and designed for a variety of residential and commercial uses, including:

- Whole house filtration
- Commercial filtration
- Industrial filtration
- Pre-filtration for RO equipment
- Community water systems
- Sea water applications due to their non-corrosive construction
- Replacement for bag filters with more filter area
- A convenient alternative to multiple cartridge filters
- Water for livestock and poultry

### Common Applications:

**MELTBLOWN**

<table>
<thead>
<tr>
<th>Media</th>
<th>PP or PE</th>
<th>PP + FG</th>
<th>Activated carbon</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center tubes</td>
<td>PP</td>
<td>PP</td>
<td>PP</td>
</tr>
<tr>
<td>Maximum flow rate (m³/h)</td>
<td>34</td>
<td>23</td>
<td>3.4</td>
</tr>
<tr>
<td>Maximum temperature</td>
<td>52°C/125°F</td>
<td>52°C/125°F</td>
<td>52°C/125°F</td>
</tr>
<tr>
<td>Maximum °ΔP (bar)</td>
<td>2.1</td>
<td>2.75</td>
<td>2.1</td>
</tr>
<tr>
<td>Chemical resistance</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Not a factor (for water only)</td>
</tr>
<tr>
<td>Length (media)</td>
<td>26 -⅜”</td>
<td>26 -⅜”</td>
<td>26 -⅜”</td>
</tr>
<tr>
<td>O-rings (dual)</td>
<td>EPDM</td>
<td>EPDM</td>
<td>EPDM</td>
</tr>
<tr>
<td>Shipping weights (lbs)</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Carton dimensions</td>
<td>7”x7”x31”</td>
<td>7”x7”x31”</td>
<td>7”x7”x31”</td>
</tr>
<tr>
<td>Micron ratings</td>
<td>1A, 5, 20**</td>
<td>5, 20</td>
<td>5</td>
</tr>
</tbody>
</table>

*Polypropylene fabric  **Polyester fabric

Note: Flow rates are based on each specific application, micron ratings, solid contents and a number of factors. End user should consider these factors when selecting the filter housing (or number of filter housings) needed for their particular requirement.
WATCH® introduces its EASY Ultrafiltration (Easy-UF) Vessel system. The WATCH® Easy-UF offers 0.02 micron filtration at service flow rates up to 2.7 m³/h, just another tool in the water treatment tool box. Another example of the innovative thinking you’ve come to expect from WATCH®.

Utilizing WATCH® patented and industry exclusive liner design, the internal UF module treats colloids, bacteria, cysts, viruses, turbidity, tannins, and other particles down to 0.02 micron size. The back-washable system, allows for multiple standard 2.5” top inlet connections, from standard back-washable control valves to in/out heads.

The high surface area UF bundles require normal line pressure to operate, low waste discharge when in backwash/cleaning mode, and offer low pressure drop with high service flow rates.

The WATCH® Easy-UF can be utilized as a final polishing stage or on water reclamation systems for Rainwater or Grey water, along with offering protection during power outages and intermittent power. The membrane is certified to NSF/ANSI 61 and the system is BioVir certified and tested for log reduction. The vessel also comes standard with a bottom drain opening for ease of drainage and cleaning purposes of the tank system.

Technology that is easy to understand and use, another innovation from WATCH®.

Available in 5 standard colors. Custom colors available upon request.
MEMBRANE:

Our patented polysulfone-based Outside/In Ultrafiltration Membrane is designed for turbidity, cyst reduction and fine sediment filtration applications and is certified to NSF/ANSI-61. The membrane operates with flow from the outside-to-inside, with benefits of minimized risk of deep clogging, simple cleaning of the membrane surface with water and/or air, and a high area volume ratio that allows for a compact design. The membrane is non-biodegradable, and has superior mechanical resistance. The WATCH® Easy Ultrafiltration Vessel System provides point-of-entry (POE) filtration, for safe and clean water at every faucet.

TECHNICAL INFORMATION:

- Continuous flow at 2.3 m³/h filtration at 0.02 microns.
- 4.4 log reduction of Bacteria.
- 2.4 log reduction of Virus.
- 2.0 log (est) reduction of Cyst.
- 100,000 MWC

FILTRATION LEVEL:

- 0.02 micron.
- Operating Temperature: 2°C to 38°C.
- Operation Pressure: 0.7 to 6.8 bar.
- Continuous Flow Rate: 2.3 m³/h.
- The system provides a treated flow of up to 2.7 m³/h at 25°C and 4.1 bar.
- Membrane is Certified to NSF/ANSI-61.
- Raw Water Specification:
  1. Pre-filtration: 5 microns or less.
  2. Chlorine: 1.0 ppm maximum for continuous flow (up to 2000 ppm for cleaning only).
  3. Iron: Less than 0.30 ppm.
  4. Manganese: Less than 0.05 ppm.
  5. Silt Density Index: Less than 6.0
  6. pH: 3 to 11.
  7. Pressure Decay Test (PDT) is required upon installation.

APPLICATIONS:

- Grey Water and Rainwater use, catchment, and recycling.
- Tannin removal.
- RO Pre-filter.
- Polishing post filter filtration.
- Colloid removal.
- Bacteria, cyst and virus removal.

*This product is not certified as a microbiological purifier and should not be applied as a stand-alone disinfection solution for microbiologically unsafe water.