



European Pure Water

We Clean Your Water



DWETS

**DRINKING WATER EMERGENCY
TREATMENT SYSTEM**

DWETS Not Just For Outdoor Use

Water treatment systems allow you to have safe, convenient, inexpensive drinking water for your full range of outdoor pursuits including day hikes, paddling, mountain biking, fishing, hunting, climbing, group and family camping and even help prepare you for emergencies.

AAWT

ALAND ADVANCED WATER TECHNOLOGY

Our Blue Planet

The world

is experiencing a global water crisis.

1.1 billion people still lack access to improved drinking water sources and some 2.4 billion to adequate sanitation. More than 3.5 million people die each year from water-related diseases that could be prevented with access to clean, safe water and sanitation. We strive for water justice based on the principles that water is a human right, a public trust, and part of the global commons. Diarrhoea occurs worldwide and causes 4% of all deaths and 5% of the health loss to disability. In developing countries four-fifths of all the illnesses are caused by water-borne diseases, with diarrhoea being the leading cause of childhood death. In Bangladesh alone, some 35 million people are exposed, on a daily basis, to elevated levels of arsenic in their drinking water, which will ultimately threaten their health and shorten their life expectancy. After the Tsunami attack in Asia people faced the threat of water borne diseases linked to flooding, like Shigellosis, Cholera, Hepatitis A, Leptospirosis, Typhoid Fever, Malaria and Dengue fever.



Natural Disasters

Floods and other water-related disasters account for 70 per cent of all deaths related to natural disasters

Clean, accessible water for all is an essential part of the world we want to live in.

What if the worst happened?



**DW-HF
Emergency
Water
Treatment**





**This is very important, everyone should know,
because having a supply of safe drinking water is one
of the key aspects of survival.**



Clean, accessible water for all is an essential part of the world we want to live in. There is sufficient fresh water on the planet to achieve this. But due to bad economics or poor infrastructure, every year millions of people, most of them children, die from diseases associated with inadequate water supply, sanitation and hygiene.

Water scarcity, poor water quality and inadequate sanitation negatively impact food security, livelihood choices and educational opportunities for poor families across the world.

Drought afflicts some of the world's poorest countries, worsening hunger and malnutrition.

By 2050, at least one in four people is likely to live in a country affected by chronic or recurring shortages of fresh water.

Product Application

The DWETS focuses on improving and maintaining your health. It starts with providing fresh, clean drinking water to help you and your family stay properly hydrated.

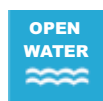
It continues by providing clean water for other areas of your life, camping, hiking, boating, cycling, travel, hunting, fishing emergency preparation and for any other activity where easy access to uncontaminated water is important.



Emergency Preparation



In Emergency



Use water from lakes, ponds, rivers, open wells or from any kind of bad water.



DWETS filters and kills water contaminants.



When you least expect and stuck without access to clean water you will be glad to use DWETS product.

Our Technology

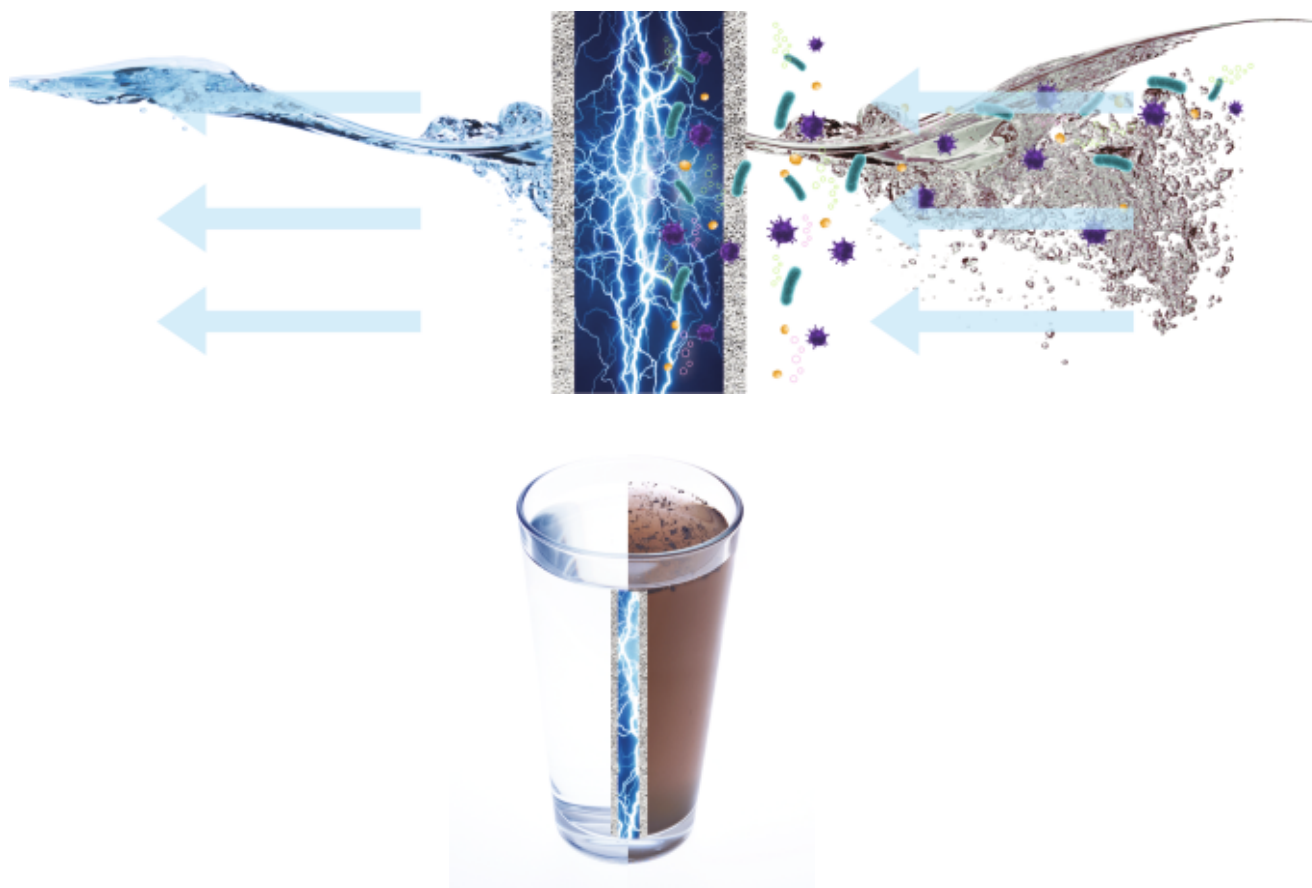
The space water filtration technology contains pleated non-woven fabric made of several compounds, i.e. pseudoboehmite fibers grafted to microglass carrier, activated carbon, silver impregnated zeolite and non-wovens. This sandwich-like structure together with utilization of various mechanisms of contaminant removal makes this filter cartridge a breakthrough technology.

Filtration efficiency is comparable to nanofiltration membranes, but at very low pressure drops, high flow rates and loading capacity.

In order to remove contaminants electroadsorption and ion exchange is utilized. Due to the unique crystal structure of pseudoboehmite a positive electrokinetic potential is created. It attracts and binds impurities. This potential radiates to 1 μm distance, so it covers the pore volume throughout the entire cross-section.

High quality activated carbon utilized carbon increases cartridge performance. Carbon has high surface area to mass ratio providing extremely rapid reaction kinetics. It is an excellent functional adsorbent material due to its high porosity and large surface area.

The cartridge becomes impenetrable barrier for waterborne microbes. Bacteria are held inside the cartridge and cannot get through due to the porous structure and electrokinetic potential of it. Moreover addition of silver-impregnated zeolite made this cartridge acts as a bacteriostat, preventing from bacterial growth.



DWETS product line provides high quality filtration. It is excellent in removing chemicals and biological impurities such as: cell debris, endotoxins, pathogens (viruses and bacteria), polysaccharides, bromine, chlorine, lead*, BPA, Penicillin G, arsenic*, ferrous iron, chloramine, VOC, and many others. It is also very effective in removing sediments such as sand, silt, rust and suspended solids.

* @ pH 6,5 and 8,5



Nano: A prefix that means very, very, small.

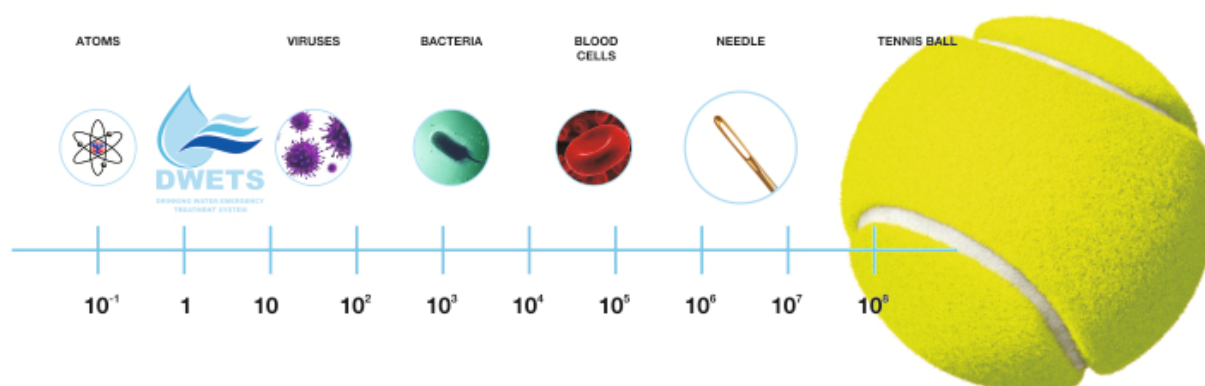


The word nano is from the Greek word “Nanos” meaning Dwarf.

It is a prefix used to describe “one billionth” of something, or 0,000000001.

The filter attains the highest level of filtration available today on market, removing chemicals and biological impurities such as: cell debris, endotoxins, pathogens (viruses and bacteria), polysaccharides, bromine, chlorine, lead*, BPA, Penicillin G, arsenic*, ferrous iron, chloramine, VOC, and many others. It is also very effective in removing sediments such as sand, silt, rust and suspended solids. (remove particles down to 0.005 micron)

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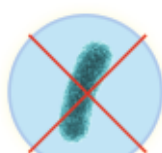


Performance Comparison

	DWETS	RO	NF	UF	Carbon block	UV
Contaminant	Preformance					
Dissolved salts		💧				
Endotoxin	💧	💧	💧	💧		
Viruses	💧	💧	💧			💧
Bacteria	💧	💧	💧	💧	💧	💧
Cyst	💧	💧	💧	💧	💧	💧
Polysaccharides	💧	💧	💧	💧		
Coloids	💧	💧	💧	💧		
Particulates	💧	💧	💧	💧	💧	
Chemical reduction	💧	💧			💧	💧
Trace pharmaceuticals	💧	💧			💧	💧

The Size Of Nano

Hydrogen Atom	0,1nm
DNA Diameter	2,5 nm
Virus	10 to 100 nm
Red Blood Cell	5.000 nm
Human Hair	50,000nm



No viruses



No pathogens



No cellular
debris



No particulates



DWETS If viruses are an issue we offer the DW-B1

Excellent all-around water filter for any type of plastic bottle.
Perfect for camps or family adventures - simply fill with water and gently squeeze.
You can easily have safe, potable drinking water with no effort.
The simple and easy way for safe potable drinking water - just fill and use.

Replacment cartridge

SIMPLE AS

1

Use any plastic bottle, fill with water from any source

2

Insert filter 90W-B1 and cap on the top of bottle gently screw the cap for proper seal tight.

3

Gently squeeze the bottle and enjoy the fresh clean water.

Item # 90W-B1



ultra small ultra light

DW-B1 Squeeze Filter

The filter attains the highest level of filtration available today on market, removing chemicals and biological impurities such as: cell debris, endotoxins, pathogens (viruses and bacteria), polysaccharides, bromine, chlorine, lead*, BPA, Penicillin G, arsenic*, ferrous iron, chloramine, VOC, and many others. It is also very effective in removing sediments such as sand, silt, rust and suspended solids. (remove particles down to 0.005 micron)

* @ pH 6,5 and 8,5

Don't trust the tap or bottle water abroad?
This filter insert fits most threaded water bottles.
You can squeeze the bottle and filter water into a different container.

The 90W-B1 is an excellent all-around water filter cartridges.

Specifications

- > Type: Squeeze Type Water Filter
- > Filter Cartridge Capacity: up to 300 liters depending on water quality
- > Best Use: Exercising Sporting Events Travel Missions Trips Camping Hiking Boating Cycling Hunting Fishing and Emergency Preparation
- > Output Gently Squeeze: 350ml/min

Technical Information

- > Removes virus, bacteria, protozoa, cysts, algae, spores, sediments etc.
- > Cartridge made with special activated carbon
- > Special activated carbon improves taste and odor
- > Large filter cartridge surface allows for maximum efficiency

Features

- > low cost, economy water filter model
- > easy to use in any place
- > no maintenance required
- > reduces water unpleasant taste and odor
- > makes filling and hanging convenient
- > no pump required
- > no electricity required
- > super lightweight, portable
- > ultra-low pressure drop
- > broad spectrum of contaminant removal
- > bacteriostatic properties





**Excellent all-around water plastic bag.
Perfect for camps or family adventures - simply fill with water and gently squeeze.**

Specifications

- > Type: Water Filter Bag
- > Best Use: Home, Office, School Exercising, Sporting Events, Continental and Inter-Continental, Travel, Missions, Trips Camping, Hiking Boating, Cycling Hunting, Fishing
- > Bag Capacity(full) : 900 ml
- > Bag Dimensions: W 160 x H 360mm



90W-BB

90W-BT

If viruses are an issue we offer the mobile filter SILM type

**Excellent all-around water filter for any type of plastic bottle.
Perfect for camps or family adventures - simply fill with water and gently squeeze.
You can easily have safe, potable drinking water with no effort.
The simple and easy way for safe potable drinking water - just fill and use.**

90W-B1 Squeeze Filter

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Safe drinking water. Anywhere. Anytime.
.. in only 60 seconds.



90W-HB is state-of-the-art gravity water filter.

The unique design makes this filter one of the most advanced product commercially available. The technology utilized in this filter was originally developed for NASA. Now you can also use this "space technology" wherever you go and wherever you are.

It weighs no more than 160 grams, fits easily into a backpack and looks like any other plastic bag. But the simple device is a life-saver for people who have no access to clean drinking water.

The bag, 90W-HB filters dirty water, such as river water and turns it into potable water in the same time it would take to run it from the tap.

90W-HB provides high quality filtration. It is excellent in removing chemicals and biological impurities such as: cell debris, endotoxins, pathogens (viruses and bacteria), polysaccharides, bromine, chlorine, lead*, BPA, Penicillin G, arsenic*, ferrous iron, chloramine, VOC, and many others. It is also very effective in removing sediments such as sand, silt, rust and suspended solids. * @ pH 6,5 and 8,5

90W-HB produces great-tasting and healthier drinking water. Ultra-low pressure drop, durable physical strength, steady flow and therefore reliable performance and long longevity make DW-HB an ideal choice when fighting against natural disaster consequences, traveling to areas where drinking water quality is questionable.

90W-HB Descriptions

- > Cartridge -High surface cartridge area, high gravity water flow, low maintenance
- > Removable Filter Protector extends cartridge life in challenging conditions
- > Activated Carbon Core reduces unpleasant tastes and odors from water
- > Large Volume Water Bag 3.0 Liters
- > Easy Open / Close Buckle System
- > Makes filling and hanging convenient
- > Long Output Hose with On/Off Valve
- > Instant flow of filtered water
- > Removes virus, bacteria, protozoa, cysts, algae, spores, and sediments
- > Best Use: Camping, base camps, families, or groups
- > Easy-to-clean and easy-to-fill, 90W-HB introduces a new zip type water bag filter.
- > Lightweight, puncture-resistant, food-grade polyethylene that won't flavor your water with a plastic taste
- > Durable welded construction lets you inflate and collapse the bag over and over again
- > 90W-HB is protected with Bacinix™, an antimicrobial treatment insert that keeps water fresh and taste free
- > Zip type reinforcement ensures a secure and easy closure every time
- > 90W-HB tube assembly includes shutoff valve angled 90° for no-hassle hydration and flow control.
- > Quick-connect hose allows easy removal of reservoir from pack without rerouting tube.
- > Taste-free tube won't affect the flavour of your water

DW-HB SPECIFICATION

- > Capacity: 3.0 liters
- > Total weight: 157 g
- > Dimensions: 18.5 cm W x 45.0 cm H
- > Hose length: 80 cm
- > Output: Up to 0.5 liters per minute
- > Capacity (Filter life): up to 600 liters, depending on water quality



Features

- > low cost, economy water filter model
- > easy to use in any place
- > high surface cartridge area
- > reduces water unpleasant tastes and odor
- > makes filling and hanging convenient
- > instant flow of filtered water
- > no pump required, no electricity required
- > gravity do the work for you
- > lightweight, portable, ultra-low pressure drop
- > broad spectrum of contaminant removal
- > bacteriostatic properties
- > destroys waterborne microbes that could make you sick



Filters Virus, Bacteria, Chemicals and Metals That Other Cartridges Miss !



Replacement Cartridge 90W-C1

For great tasting, potable water simply replace the cartridge in your filter unit.

Cartridge should be replaced after 600 liters or when the output becomes too slow. For maximum cartridge life use pre-filter sediment discs.

90W-C1 Replacement Cartridge Specifications for: 90W-HB, 90W-EB, 90WETS-EP

- > Capacity: Up to 600 liters depending on water quality
- > Output Speed: 0.5 liters/min

Technical Information

- > Replacement cartridge for: 90W-HB, 90W-EB.
- > Removes virus, bacteria, protozoa, cysts, algae, spores, and sediments
- > Anti-clog, sediment filter disc cartridge protector made from polyethylene 45µm.
- > Special activated carbon improves taste and odor
- > Large filter surface allows for maximum efficiency

Package Content

- 1 Replacement Cartridge 90W-C1
- 4 Polyethylene 45µm filter discs
- 1 Cleanable filter inlet-outlet protector



Product Line for Replacement Cartridge 90W-C1





Emergency 90W-HF mobile, no energy non chemical water purification system



Planning for Water Emergencies & Disaster Response

Responding quickly to a contaminated water supply is key to public health and safety during any emergency or natural disaster.

For just 1/100 cost of bottle water, the 90W-HF Drinking Water Emergency Treatment System turns any water source into a safe, potable water supply in a matter of minutes.

90W-HF is 100% human powered and fully operational without electricity, fuel, or technical expertise.

Easy to Transport Case

Built to be super small and compact

- > can be carried by 1 person
- > super small size
- > fits in any small place, car, truck, boat, or carry by hand
- > all system packs into small case
- > easily store in any small space.

One Person Hand Pump Powered

Single person setup and operation

- > easy to system setup within 1 minute
- > easy to use hand pump
- > 60 minutes treatment time = 625 liters of clean drinking water
- > works with any freshwater source
- > no electricity, power, fuel or technical expertise requires

Proven Treatment

Protects community with clean and healthy drinking water

- > kills bacteria and virus
- > removes particulate, protozoa, and cysts
- > improves taste and odor
- > easy to clean and reuse

Distribution of clean drinking water

Up to 15,000 liters of clean drinking water a day

- > features one small filling station
- > 1 minute from setup to full operation
- > delivery up to 15,000 a day of clean drinking water to end user storage tanks
- > dispenses up to 10.5 liters per minute

Advantages

- > Low-cost
- > Easy-to-use and efficient use after short introduction
- > High self-help compatibility
- > Shows high effectiveness

Quick Details

Process flow amount: up to 625 liters per hour

Inlet- Outlet Tubing: 4 meters

Sediment pre-filter 50 micron





Replacement Cartridge for DW-HF



90W-H1



The space water filtration technology contains pleated non-woven fabric made of several compounds, i.e. pseudoboehmite fibers grafted to microglass carrier, activated carbon, silver impregnated zeolite and non-wovens. This sandwich-like structure together with utilization of various mechanisms of contaminant removal makes this filter cartridge a breakthrough technology.

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20PNN20M-AB



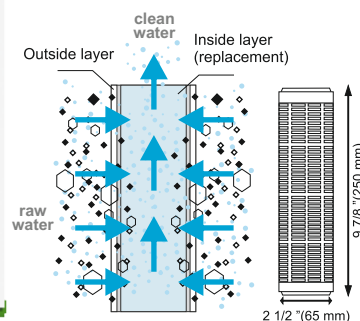
20PNN20M-AB is a double-layered single open end 20 micron filter cartridge. The outer layer is made of polypropylene and nylon mesh. The second layer is made of polypropylene non-woven fabric manufactured using melt-blown special technique. This layer is capable of removing sediments such as sand, rust and silt down to 5 microns.

The outer part is washable and reusable and creates a first barrier against sediments. The true depth filtration takes place on the PP spun cartridge. When this filter becomes clogged, simply remove the cartridge, clean the nylon net and replace with new inner melt blown spun antibacterial core.

PP spun cartridge and end caps are made using innovative formulation utilizing Bacinix™ nanosilver technology. Due to antibacterial properties such cartridge can remain wetted much longer without a risk of pathogen growth.



How 20PNNxM-AB works



20PS5-NN-AB



Replacement Inesrt Cartridge Inside layer (**20PS5-NN-AB**)

The insert cartridge layer is made of polypropylene non-woven fabric manufactured using melt-blown special technique. This layer is capable of removing sediments such as sand, rust and silt down to 5 microns. The true depth filtration takes place on the PP spun cartridge. When this filter becomes clogged, simply remove the cartridge, clean the nylon net and replace with new inner melt blown spun antibacterial core. PP spun cartridge and end caps are made using innovative formulation utilizing Bacinix™ nanosilver technology. Due to antibacterial properties such cartridge can remain wetted much longer without a risk of pathogen growth.

20W-H4



20W-H4 is a 50 micron sediment single open end filter cartridge. The outer layer is made of polypropylene and nylon mesh. This layer is capable of removing sediments such as sand, rust and silt down to 50 microns.

The cartridge outer part is washable and reusable and creates a first barrier against sediments. When this filter cartridge becomes clogged, simply remove the cartridge, clean the nylon net.



50W-HS 4 Stage Water Filtration System



General Description:

The unique design makes this filter one of the most advanced product commercially available. The technology utilized in this filter was originally developed for NASA. Now you can also use this "space technology" wherever you go and wherever you are. When you want great tasting, high quality water without buying bottled water this is the system for you!

This 50W-HS system helps to reduce harmful contaminants that find their way into groundwater, directly affecting private wells and municipal water systems.

The water filter system features easy twist-off filter four stage 1/4 turn encapsulated four stage water filtration cartridges, all designed to make installation and replacement quick, easy.

Apart from food, people today depend on water for healthy living. When water becomes contaminated, individuals may be exposed to life-threatening illnesses.

The 50W-HS system comes complete ready to install with connection hardware, tubing, faucet and instruction manual.



50W-HS

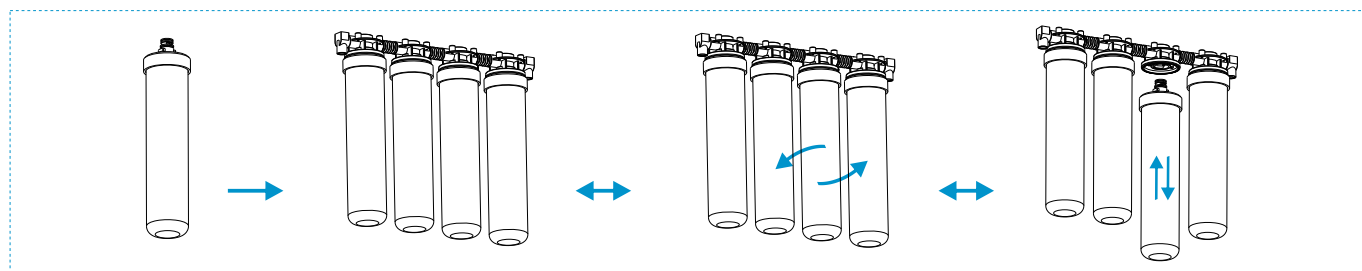
Features:

- > High quality
- > Competitive Pricing
- > Four Stages of Filtration
- > Push-and twist type cartridge replacement
- > Easy Economical Cartridge Maintenance
- > Easy to install
- > Systems equipped with modern faucet and all installation accessories comes complete and ready to install
- > Hand Built & Factory Tested
- > Fast product delivery
- > Made in EU
- > Compact size for undercounter and apartment
- > Manufactured from FDA CFR-21 compliant materials

Recommendations for Use:

- > Point-of-Use (POU) systems can filter out bad tastes, colors or odors, which pose no health risk but still affect the water quality.
- > This system will improve the flavor of water used for drinking and cooking.
- > Perfect for almost any household and will easily fit into any space
- > Kitchen compact, undercounter, home and apartment size.
- > Recommended for Families.

CARTRIDGE REPLACEMENT

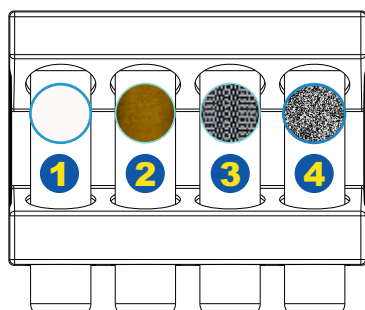




50W-HS 4 Stage Water Filtration System



HOW IT WORKS



CATALOG#	STAGE	COMPONENT	FUNCTION
51-20M-TW2-CL	1	Sediment Pre-Filter Spun-bounded polypropylene	20 micron sediment filter traps dirt, sediment, rust and other particulate matter.
51-2-TW2-CL	2	Ion exchange 2 in one High quality ion exchange resin	Step 1: Water hardness reduction. Step 2: Reduces the concentration of iron.
51W-TW	3	Rejects or separates high molecular weight solutes as well as suspended solids, colloids, and macromolecules bacteria and viruses.	51W-TW Cartridge remove mechanical particles as low as 0,005 micron.
51BL-S-TW2-CL	4	Carbon Block Cartridge Extruded activated carbon with other treatment filtration media	Step 1: Removes chlorine, color, odor and other organic impurities. Step 2: Reduces the levels of iron, heavy metals, pesticides, organic substances, improved taste and odor.

Specifications:

Total weight: 3.0 kg
Connection adapter: 1/2"
Working Temp.: 2°C - 45°C
Working Pressure: 2,0 bar
Flow Rate: 2.0 lm (0.6 gpm)
Cartridge Housing (Sump) Clear - Material: Poly (ethylene terephthalate)
Cartridge Housing (Sump) White - Material: Polypropylene
Cartridge Housing Cap - Material: Polypropylene

The Package Contains:

- Cartridge Type include in set: 51-20M-TW2-CL, 51-2-TW2-CL, 51W-TW, 51BL-S-TW2-CL
- Long Reach Chrome Faucet: 45FCH17-C
- Feed water connector 1/2"
- 1/4" inch Tubing for System Connection
- Completely Assembled
- Manual instructions
- Color box
- 100% Factory Tested and Sterilized Ready for Installation
- Made in Europe

Important Notice:

Avoid cheap Water Filtration Systems and Cartridges which have no testing credentials or certifications, and often leach harmful chemicals into the water which are linked to cancer, birth defects and infertility. In addition, cheap components may also lead to membrane fouling, leaks and general poor performance and product longevity. Instead, choose tested and certified water filtration systems and cartridges.

NOTE

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.
- We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.
- Replace the filter cartridge at least every 2 or 4 months (depending on water quality).

LIMITED WARRANTY: Manufacturer warrants that this product is free from defects in materials and workmanship. This warranty, together with any and all warranties implied by law, shall be limited to a period of two (2) years from the date of original purchase.

This limited warranty does not apply to failures that result from abuse, misuse, alteration or failure to properly comply with installation, or cartridge change instructions.

We strongly recommend adding to all point of use filtration systems a Pressure Limiting Valve (45TRY3BAR series check this item at www.aawt.ax) to guard against unwanted extreme water pressure events pressure increases, surges, and water hammer which could occur in the water pipes. Not having one installed could mean that if you ever did have to claim damage caused by a burst water filter system, the claim will be denied.

