



# WATCH<sup>®</sup>

# TITAN

## Arsenic & Heavy Metals Removal

### ARSENIC IN YOUR DRINKING WATER

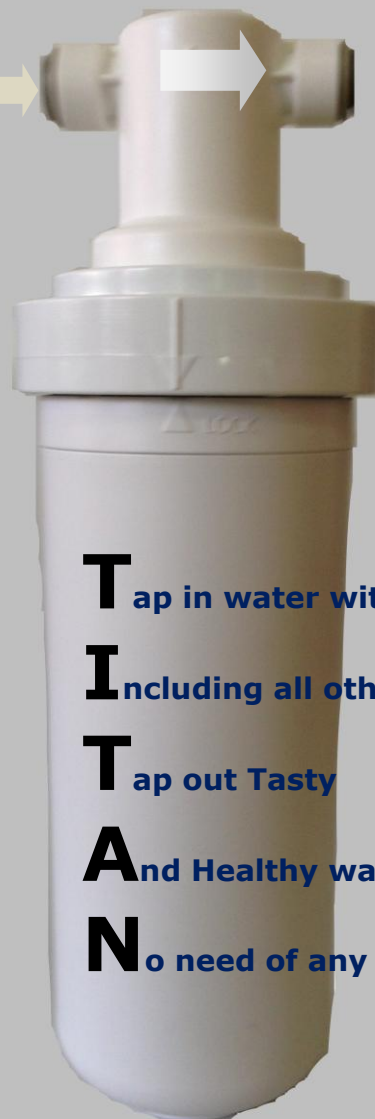
(Point Of Use Cartridge)

**ARSENIC** in your drinking water is harmful to your health. Watch<sup>®</sup> Water suggests that drinking water with Arsenic levels above **10** µg/liter should have a "Point Of Use" filter at every home to minimize the risk of kidney malfunction. Exposure to Arsenic & Heavy Metals in drinking water has shown many harmful diseases including Cancer. You should not continue to drink water contaminated with excessive levels of Arsenic. **TITAN Filter** is an affordable home water treatment "Point Of Use" filter that produces 4 to 5 gallons (15 - 20 liters) of pure drinkable water free of Arsenic (III + V) and Heavy Metal per hour and removes **95 - 100%** of **Arsenic**. More information on our home page: <http://www.watchwater.de>

## Pure WATER or Arsenic ?

# FILTER

As  
U  
Cr  
Cu  
Cd  
Hg  
Pb  
Sb  
Se



**PURE WATER**

**T**ap in water with Arsenic  
**I**ncluding all other Heavy Metals  
**T**ap out Tasty  
**A**nd Healthy water  
**N**o need of any bottled water

Contact Time: 3 - 8 Seconds.  
 Flowrate: 20 liters/hours

## YOUR HOUSEHOLD QUALITY FILTER

### Instructions:

Periodic maintenance of the treatment systems as instructed by Watch<sup>®</sup> Water is recommended to ensure proper function and safety.



# TITAN FILTER

## Arsenic & Heavy Metals Removal

Only a **TITAN – Filter** water makes a perfect Arsenic-free mineral water for refrigerator, soft drinks and very important, for preparing milk for babies. No more bottled water is needed!

Find out more: [www.watchwater.de/TITAN](http://www.watchwater.de/TITAN)

**TITAN Head:** 3/8" inlet/outlet with John Guest fittings for **TITAN** Filter Cartridges. **TITAN** head connector is designed to fit a range of **Watch®** Filter cartridges for all food and beverage applications (Drinking water dispensers, Under Sink, Ice Machines etc.).

### TITAN Quick Change Cartridges:

**TITAN** Cartridge contains a very innovative, patented Adsorbent, based on granulated Titanium Dioxide (Trade name **TITANSORB®**) which has been developed as a long testing, high performance material and thus lowering costs associated with removing Arsenic from water. Its durability and selectivity for **Arsenic, Uranium** and other **Heavy Metals** (Chromium, Copper, Lead, Mercury, Cadmium, Selenium, Antimony, etc.) means that **TITAN** Cartridge is absolutely reliable and efficient to remove these toxic contaminants for safe drinking water at home, office and restaurants at any place in the world.

### MORE INFORMATION:

**TITAN** Quick change technology means there is absolutely no need to shut off the water supply and **TITAN** filter can be changed in just seconds. It has no by pass, meaning it provides 100% **Arsenic free** filtered water.

### Watch® TITAN Filter Highlights:

- Removes Arsenic, Uranium, Chromium, Copper, Lead, Mercury, Cadmium, Selenium, Antimony and other Heavy Metals
- Low operating cost
- Long lasting
- Very high capacity
- Proven technology
- Patented technology
- No fines
- No backwash
- No odor
- No pH drop
- No pressure drop

### DRINKING WATER AND HEALTH

#### TITAN FILTER contains NO Anion or Cation Resins

Ion exchange (IX) can consist of anion exchange (AX) or cation exchange (CX). IX achieves the selective removal of charged inorganic materials from water using an ion-specific resin. As water containing undesired ions passes through a column of resin media, charged ions on the resin surface are exchanged with the undesired ions in the water. In a large centralized treatment system, the resin is regenerated and a regenerant waste stream is discharged. For **POU** units, the resin is replaced periodically as opposed to regenerating.

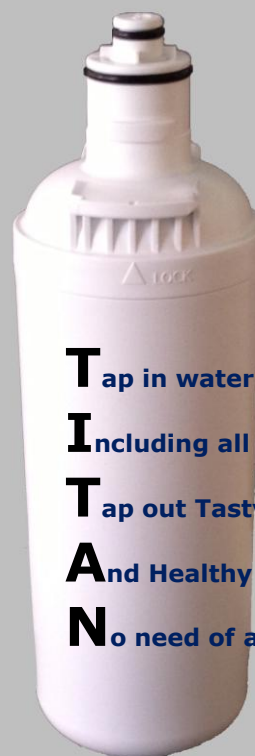
Resin fouling may occur if influent water has high concentration of total suspended solids, iron, magnesium or copper. Channels may develop in the resin bed if the pressure drop across the bed is too high due to fouling. These channels may permit water to pass through the unit without adequate contact with the treatment resin. Since **POU** ion exchange units cannot be backwashed, the media life of these devices may be shortened when level of these solids, iron, manganese or copper are high, and may preclude the use of these devices.



**TITAN HEAD**  
3/8" inlet/outlet



**TITAN HEAD connection**  
includes wall bracket



**T**ap in water with Arsenic  
**I**ncluding all other Heavy Metals  
**T**ap out Tasty  
**A**nd Healthy water  
**N**o need of any bottled water

**TITAN Filter Cartridge**  
with **TITANSORB®** media inside

### Important Information

## Drinking Water and your Drinks

### Introduction:

Groundwater is favored as a source of drinking water in many countries. Water coming from the subsurface is often thought to be cleaner and easier to treat as compared to surface water and as a result of which, many wells have been either dug or drilled. However, besides the risk of being contaminated by anthropogenic pollution, ground water naturally contains several chemical components, which can lead to different kinds of health problems. According to Reimann and Banks (2004) a groundwater source can potentially contain several naturally occurring chemical elements, many of which are not tested routinely as indices of water quality despite their known toxicity. Arsenic, Uranium and Heavy Metals are naturally occurring elements that can lead to health problems if present in high concentrations in groundwater. Countries that have problems with Arsenic and Heavy Metals in their water include Argentina, Turkey, Sweden, Finland, Norway, Hungary, USA, Canada, India, Iran and Brazil among many other countries.

### Arsenic:

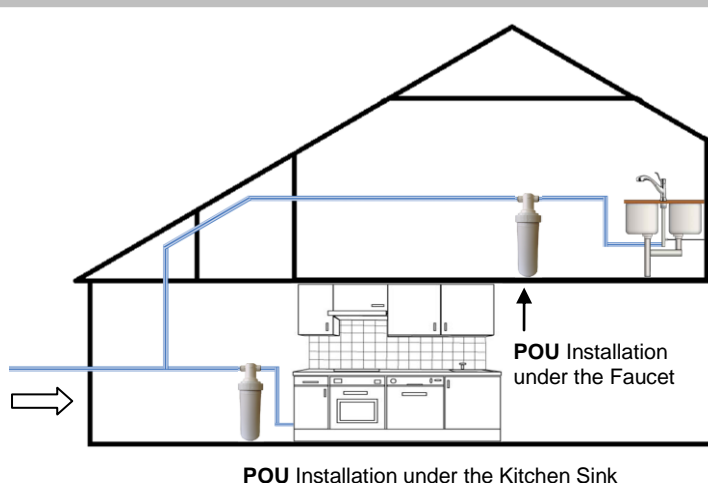
Arsenic has four main chemical forms having oxidation states: -3, 0, +3 and +5, but in natural water its predominant forms are inorganic oxy-anions of trivalent Arsenite (+3) or pentavalent Arsenate (+5).

The toxicity of different arsenic species varies in the order of arsenite > arsenate > monomethylarsonate > dimethylarsinate.

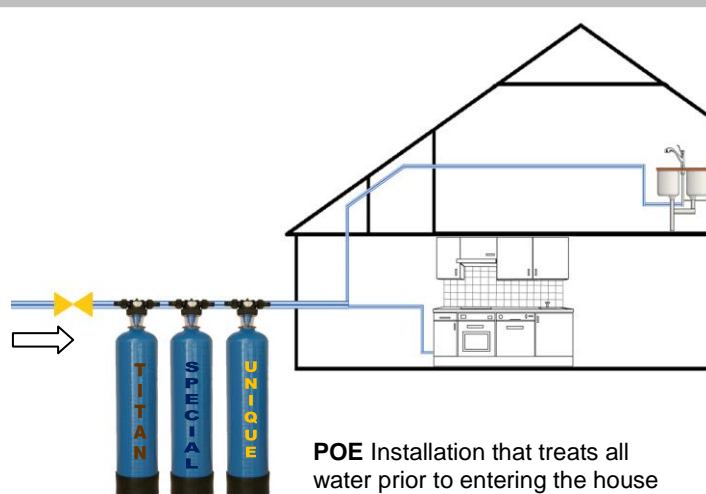
Trivalent arsenic is about **60 times more toxic** than arsenic in the oxidized pentavalent state, and inorganic arsenic compounds are about **100 times more toxic** than organic arsenic compounds. The organic forms of arsenic are quantitatively insignificant and are found mostly in surface water or in areas severely affected by industrial pollution. The relative concentration of Arsenite and Arsenate vary widely, depending on the redox conditions present in the geological environment.

## What makes TITAN Filter water so healthy and delicious?

Everyone is talking about how incredible is the taste of fresh drinking water made by **TITAN Filter**. Heavy Metals may change the taste of water. **TITAN Filter's** proprietary Titanium dioxide is a patented adsorbent media that removes all Heavy Metals and purify it to give a delicious and healthiest water as nature, rather than using reverse osmosis or ion exchange technology to stress the environment. Our water system removes all Heavy Metals from your tap. Everybody will feel the difference and that's immediately! Try it yourself.



**Typical POU Installation**



**Typical POE Installation**

## Technical Data and Installation

### Quick change Filtration Systems

### The life cycle of Watch® TITAN Cartridge:

Each TITAN Cartridge last about **36000 liters** which is approximately 12 months for an average family, depending on water conditions. After that they must be replaced, and an entirely new filter is inserted into the quick change head. TITAN Cartridge has a very long shelf-life. Rebecca® Filter has decided to collaborate with Watch® Water to create a 100% recyclable cartridge. All products are recycled as per regulations but product itself will never be used again for drinking water filtration. Watch® Water offices are shown on [Watch® Water website](http://www.watchwater.de).

contaminants in water	Daily Water Usage	Lifespan of TITAN Cartridge			
		10"		20"	
ppb	liter	Months (minimum)	Total water treated* (liters)	Months (minimum)	Total water treated* (liters)
100	100	12	36000	24	72000
	200	6		12	
	400	3		6	
150	100	8	24000	16	48000
	200	4		8	
	400	2		4	
200	100	6	18000	12	36000
	200	3		6	
	400	1		3	

\*These results are based on the flow rate of 20 liters/hour (max.)

### Social Implications of Watch® Water:

The Watch® Water has engaged itself to design very economical filters to donate to very important charities all over the world who are supporting poor people to have access to clean drinking water without Arsenic, Uranium and other Heavy Metals and many more harmful contaminants. To know more about Cartridge to Donate please visit our website [www.watchwater.de](http://www.watchwater.de)

## A GREAT WAY TO START DONATION

Watch®'s Quick Change Filters can be coupled together to assure the best quality filtration available for your drinking water!



### Features & Benefits:

- **Affordable:** The most advanced and affordable water filter available in the market.
- **Simple to use:** Install the Head, insert the cartridge into the filter head and rotate clockwise ¼ turn.
- **Quick Payback:** The Quick filters TITAN, SPECIAL or REMEMBER will replace the need of bottled water at home, office and restaurants and you will see savings immediately.
- **Long Service Life:** All filter are made of very high capacity adsorbents like TITANSORB®, FILTERSORB® and BAROSORB® which can remove impurities many times longer than any ion-exchange resin or Reverse Osmosis available in water treatment industry.
- **High Quality:** You will see the difference.

### Notice:

1. Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
2. For cold water only.
3. Replace cartridge when rated flow becomes too slow and contact your local dealer or place where you purchased.

### Distributed by:

Company:

Address:

Tel:  
Fax:

URL:  
Email:

### Manufactured by:

**WATCHER**  
 WATCH WATER  
*a Water Company*

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Germany**

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Fax: +49 621 87951-99

URL: <http://www.watchwater.de>  
Email: [info@watchwater.de](mailto:info@watchwater.de)

ITS NOT ONLY THE BEST DESIGN BUT ALSO THE BEST QUALITY FILTER!