



# Enjoy clear water through your whole house

Effective Filtration  
Minimal Maintenance  
Dependable Strength and Durability



**WATERCO**  
Water, the liquid of life

[www.waterco.com](http://www.waterco.com)

In the interest of providing better quality and value we are constantly improving and updating our products. Consequently, pictures and information on our brochures may sometimes vary slightly from models available.

### INITIAL PREPARATION

#### Filling the Unit -

- Before pouring the filter media into the filter tank, do a visual check of the laterals. Look for broken or loose laterals. Replace if necessary.
- To eliminate stress on the laterals, half fill the tank with water.
- Gradually pour in the filter media via the perforated holes of the plastic locator, which is firmly placed on the top opening of the filter. Be careful not to pour filter media into the centre pipe. Remove the plastic locator once completed.
- Wash all the filter media and debris away from the threads of the filter tank.
- Thread the MPV into the filter tank and tighten the pipe joints at various points. **Hand tighten only.**

Media	Head (kg)	Depth (cm)	Media	Head (kg)	Depth (cm)
W300 MK3	80	60	WD350	145	110
W350	90	70	WD400	190	145
W400	120	90	WD500	295	225
W500	180	135	WD600	425	320
W600	270	205	WD700	585	440
W700	360	270	WD900	905	745

### BACKWASHING

As filtration proceeds, the void areas in the medium become filled with debris filtered from the water. The pressure will start to rise and the flow of water will start diminishing. The filter will eventually become so clogged with debris that it will be necessary to perform a backwash.

#### Function of Backwash

The function of backwashing is to separate the deposited particles from filter media grains and flush them from the filter bed. Backwashing is achieved by reversing the flow of water through the filter bed at a fairly high rate. This high rate expands the filter bed and the water collects the debris taking it to waste.

#### Backwashing Instructions -

- Close Inlet Stop Valve. Close Outlet Valve.
- Release the system's pressure by loosening Pressure Release Valve to some extent until the Pressure Gauge needle drops to zero.
- Righten Pressure Release Valve.
- Depress and turn Handle 180 to "Backwash" mode.

Initial filter media backwash procedure should be repeated for at least 3 times to ensure all fine debris in the filter media are washed out to waste.

### MULTIPOINT VALVE

The flow of water through a granular media filter is controlled by the Multiport Valve (MPV), which comes completely assembled and ready for operation. The handle on top of the MPV can be moved to any of the wanted positions.

#### Conditions for backwash -

- The flow rate through the filter bed decreases until it is insufficient to meet the demand.
- The removal efficiency of the filter bed decreases to the point where the effluent quality deteriorates and is no longer acceptable.
- If a pump is installed, backwash the unit if the pressure rises by 50kPa (2 psi) above start up pressure. If connected to water mains, the pressure rise is not an accurate indicator as mains pressure tends to fluctuate. It is best to rely on the flow rate.

#### Importance of Backwashing

Without regular backwashing, the filter will become clogged with debris. This will reduce the performance of the filter. To keep the filter operating at it's optimum performance, backwash regularly as described above.

### DESCRIPTION

Ideal for water treatment applications, the Micron W & WD Filters provide an effective means to remove sediment from incoming water before direct use or storage in a tank. The Micron W Filter's unique feature is its user friendly Multiport Valve (MPV), which controls and facilitates all the operational functions needed for the filter.

The Micron W Filter can easily be applied for Carbon and Mixed Bed Filtration. Please consult a Waterco Stockist for more information.

### WATER FILTRATION

Water flows from the source (eg. water mains, bore etc.) through the Multiport Valve (MPV) and is directed downward to the top of the filter bed.

As water flows through the filter bed, debris is trapped and clean water flows through the laterals and up the central tube. The clean water then flows back through the MPV and is channelled to the outlet.

*NOTE: A sediment filter removes dirt, debris and suspended solids. It does not sanitise the water or remove dissolved material.*

### POSITIONING

- For household use, the filter should preferably be sited within the household compound and immediately after the water meter.
- The filter unit should sit on a level concrete surface or a precast concrete slab of suitable strength.
- The filter unit should be located near a drain, to minimise piping for waste and backwash.
- Where additional backwash water supply is required or desired, further plumbing arrangement will be needed. Backwashing can be assisted by a current water tank storage system or with a pump-activated auxiliary water storage tank.

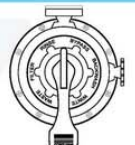
### INSTALLATION

- Be sure to comply with the local plumbing codes. The filter may be plumbed into a drinking water system and would, therefore be subject to whichever local regulations that may apply.
- Be sure that all provisions for wastewater disposal meet local, state or national codes. Do not discharge water where it will cause flooding or damage.
- Take special care with the backwash waste line. If there is not an adequate air gap between the waste pipe outlet and the drain into which it discharges, a siphon may develop that will draw some of the drain waste back into the water filter. This may result in undesirable "cross connection" between a safe and an unsafe water supply.
- If the incoming water pressure is higher than 80% of the maximum operating pressure of the tank, a Pressure Regulating Valve (PRV) must be installed upstream of the filter inlet. The PRV should be set to 90% of the maximum operating pressure of the tank.
- If the incoming water pressure is less than 150kPa/ 22psi, adequate backwashing cannot be achieved. In such cases, a booster pump should be incorporated.



### Domestic Installation

- NOTE:**
- All piping should be a minimum of:-  
- W250-100 - 20mm (3/4")  
- W400 - 25mm (1")  
- W500 and above - 40mm (1 1/2")
  - For an optimum backwash, minimise back pressure by keeping pipe work to the drain as short as possible.
  - A by-pass piping arrangement should be incorporated, which allows the entire filter unit to be easily isolated for servicing and maintenance, whilst ensuring continuous water supply into the household.



Valve Position	Function
FILTER	Normal filtration.
RINSE	Used after backwash to flush out remaining dirt.
BY-PASS	By-passes filter by circulating water to outlet.
BACKWASH	Cleans the filter media by reversing the flow.
WINTERIZE	Prevents rotor gasket sticking in freezing conditions.
WASTE	By-passes filter and sends water to waste.

# ถังกรองน้ำสำหรับบ้านทั้งหลัง



**WATERCO**  
Water, the liquid of life

**ZeoPlus**



สินค้านำเข้าจากบริษัทผู้ผลิต  
ชั้นนำของออสเตรเลีย

IMPORTED PRODUCT FROM WATERCO

WATERCO เป็นบริษัทมหาชน และเป็นบริษัทผู้ผลิตที่มีประสบการณ์ในการผลิตถังกรองน้ำขนาดใหญ่สำหรับสระว่ายน้ำและถังกรองน้ำ  
WATERCO is a public-listed Australian company who has an experience in manufacturing swimming pool and whole house filters for over 20 years.

090301 CATALOG สำหรับ ทีมช่างเทคนิค

บริษัทสระน้ำจำกัด สงวนลิขสิทธิ์และขอสงวนสิทธิ์ในความเหมาะสมโดยมีลิขสิทธิ์ของวงษ์ทรงษ์

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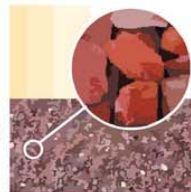
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ประหยัด  
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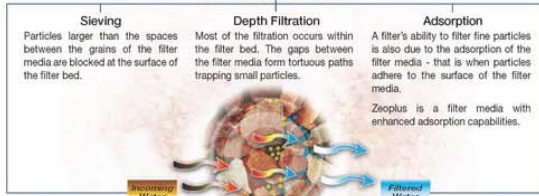
ZeoPlus  
from  
Australia



**Micron W Series** filters all the water entering the house, providing clear water to every tap.

- Clear water for cooking and cleaning
- Cleaner, brighter laundry
- Refreshing baths and showers
- Extended service life of drinking water purifiers

**The Filtration Process**



Micron W series filter is capable of filtering out particles as small as 10 microns (0.01mm).

**Why Choose A Fibreglass Wound Filter?**

Currently fibreglass wound filters are rapidly replacing steel filters in numerous water applications around the world.  
Fibreglass vessels have a seamless construction unlike steel vessels, which have welded joints that may leak or blow out.  
Fibreglass vessels do not corrode, rust or leave any unsightly stains.

**Please Note:** Micron W Series filters do not filter out chlorine  
The local water authority adds a safe consumption level of chlorine to disinfect your water supply. The removal of chlorine may result in the proliferation of bacteria in your water tank.  
Waterco recommends the use of a carbon-based water filter only at the 'point-of-use' e.g. kitchen sink.

**Strength and Durability**  
A Micron W's innovative design and superior construction techniques provide it the strength to cope with working pressures up to 700kPa. (Equivalent to 71 tonnes per square meter.)

**Refined Filament Winding**  
Waterco's advanced filament winding machine winds continuous strands of fibreglass onto the filter's inner tank so that it is able to withstand high water pressures as well as fluctuating water pressures.



**Micron W300 MKII & W250 Product Specifications**

Inner Diameter	Overall Width	Overall Height	Valve Size	Filter Area	Bed Depth	Max. Flow Rate	Max. Working Pressure
mm	mm	mm	mm	m <sup>2</sup>	mm	lpm	kPa
300	322	1366	40	0.07	600	42	700
250	304	1385	40	0.05	600	29	700

Installations of W300 filters with pressure pumps and water reserved tanks



Installations of W250 filters with pressure pumps and water reserved tanks



For places where water condition is very bad, installations of 2 x W250 or 2 x W300 definitely fix the problems.  
สำหรับบ้านที่ใช้น้ำบาดาลที่สกปรกมาก บริษัทแนะนำให้ติดตั้งถังกรอง 2 ถัง



**คุณสมบัติของซีโอไลต์**

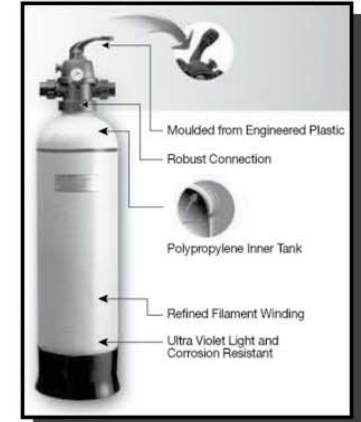
1. สามารถจับแอมโมเนียได้ 1 กิโลกรัมแอมโมเนียต่อลิตรซีโอไลต์ (0.01 มม.)
2. ซีโอไลต์จับฟอสเฟตได้ 25% แอมโมเนียที่ไว้จะจับได้ 1 กิโลกรัมแอมโมเนียต่อลิตรซีโอไลต์
3. ดูดซับอินทรีย์ในน้ำ ควบคุมคราบไขมัน
4. ควบคุมความเค็มของน้ำดื่มที่เกินค่าที่ไว้จะจับได้ 1 กิโลกรัมแอมโมเนียต่อลิตรซีโอไลต์
5. ควบคุมความเค็มของน้ำดื่มที่เกินค่าที่ไว้จะจับได้ 1 กิโลกรัมแอมโมเนียต่อลิตรซีโอไลต์
6. ควบคุมความเค็มของน้ำดื่มที่เกินค่าที่ไว้จะจับได้ 1 กิโลกรัมแอมโมเนียต่อลิตรซีโอไลต์
7. ควบคุมค่า pH ของน้ำดื่มที่เกินค่าที่ไว้จะจับได้ 1 กิโลกรัมแอมโมเนียต่อลิตรซีโอไลต์
8. ควบคุมค่า pH ของน้ำดื่มที่เกินค่าที่ไว้จะจับได้ 1 กิโลกรัมแอมโมเนียต่อลิตรซีโอไลต์
9. ควบคุมค่า pH ของน้ำดื่มที่เกินค่าที่ไว้จะจับได้ 1 กิโลกรัมแอมโมเนียต่อลิตรซีโอไลต์

**ถังกรองน้ำสำหรับบ้านทั้งหลัง**



**WHOLE HOUSE FILTER**

ใช้สารกรองที่เป็นแร่ธาตุธรรมชาติซีโอไลต์ที่เกิดจากหินภูเขาไฟ สามารถทำการกรองและดูดซับได้พร้อมกัน ทั้งและอุปกรณ์ทำด้วยวัสดุโพลีเมอร์ (ไฟเบอร์กลาส, PVC, PE) ไม่เป็นสนิม ไม่ผุกร่อน ทนแดด ทนฝน ทนกรด ทนด่าง ทนความชื้น ทนแรงอัดน้ำได้มากกว่า 10 บาร์ ใช้วัสดุมาตรฐานแบบมัลติพอร์ต ทำให้การเปลี่ยนโหมดใช้งานทำได้โดยง่าย



**ตัวอย่างการติดตั้งถังกรองน้ำสำหรับบ้านทั้งหลังแบบต่างๆ**

