

STATE-OF-THE-ART

WATER FILTRATION SYSTEM

An aerial view of a city skyline, featuring several prominent skyscrapers. A semi-transparent, white, three-tiered water filtration system is overlaid on the lower part of the image. The system consists of three vertical columns connected by horizontal pipes, with a blue roof on the top tier and a blue base on the bottom tier. The background is a clear blue sky with some light clouds.

AQUAFLO

RESIDENTIAL | INDUSTRIAL | COMMERCIAL

www.waterco.com.my

WATERCO
water, the liquid of life

About Waterco

As a global leader in sustainable solutions, focusing on the area of water, Waterco is committed to providing cost-effective and innovative solutions that contribute to resource optimization and sustainable growth for communities and industries. Established in 1981, Waterco has since become a global brand recognized for designing and manufacturing both filtration and sanitisation innovations for the water purification, swimming pool, spa and aquaculture industry.

It is Waterco's goal to enable our customers to meet increasing water demands and population needs, overcome scarcity challenges, enhance their environmental stewardship and comply with regulatory requirements.

Waterco's head office is in Sydney, Australia, with international offices, warehouses, manufacturing and R&D plants located in US, Australia, New Zealand, Malaysia, Indonesia, Singapore, China, Canada, France, and the UK.

MANUFACTURING POWERHOUSE

The company's advanced fibreglass winding and pioneering plastic moulding techniques have delivered premium quality products to over 40 countries via its branches and international distributors.



Strict quality control

Waterco's quality control procedures ensure that the structural requisites of the product are achieved at every stage of production. This results in 100% compliance of the end product with the specifications.



Seamless one-piece vessel

Waterco's Micron Commercial Fibreglass Filters are made from continuous strands of high quality fibreglass filament wound under controlled tension to create a seamless, impervious vessel. This produces a filter that is free from welds or seams along with special tank linings that typically corrode or electrolyse. Waterco's revolutionary winding technology further strengthens the fibreglass structure so it can withstand a working pressure of up to 1,000 kPa (150psi).



Low maintenance

Once installed, there are virtually no maintenance or repairs required. Steel vessels require the anti-corrosive coating to be maintained periodically and certified welders to make repairs to the lining with expensive epoxy coating.



Proprietary construction

The design and manufacturing process of the fibreglass vessel, utilising the latest filament winding machines, incorporation of non-metallic fittings plus reinforced manhole openings with proprietary methods, is unique to Waterco.



1/3 the weight of steel

Fibreglass vessels weigh only 1/3 the weight of steel vessels while maintaining the same level of strength. Their weight makes them easier to ship to the job site, quicker to install, and reduces structural requirements.



About Aquaflo



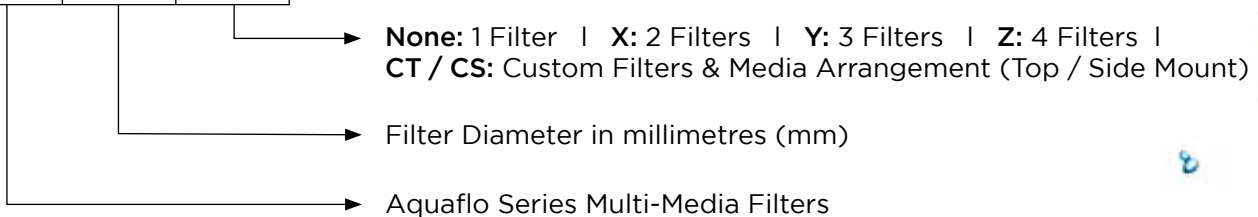
The Aquaflo centralised filtration system is a one-stop solution for residential, commercial, and industrial building. It uses multi-media technology to eliminate hazardous compounds and enhance the water quality in our client's premise. Aquaflo fibre reinforced plastic (FRP) filter is light and easy to handle, making it a fairly great choice for retrofit projects. Also, the weather proof and chemically inert filter body will ensure the filtration system to last for decades.

Our goal is to improve the aesthetic quality of water with Aquaflo centralised filtration system. Waterco strives to assist our client for the following challenges and preserve the pristine water condition.

- Unpleasant taste and odour
- Excessive chlorine
- Heavy metal
- Ammonia
- Rusted particles
- Sediments
- Complex valves operation
- Rusty filter body
- Turbidity and colour
- Long backwash period

MODEL DEFINITION

AQ	700	X
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None: 1 Filter | **X:** 2 Filters | **Y:** 3 Filters | **Z:** 4 Filters | **CT / CS:** Custom Filters & Media Arrangement (Top / Side Mount)

Filter Diameter in millimetres (mm)

Aquaflo Series Multi-Media Filters

**Please contact Waterco for non-standard OR customised model.*

SYSTEM FEATURES



Built in pressure gauge



Safety valves (Optional)

**Safety relief valves & pressure reducing valves available.*



Water sampling points before and after filters



Hydraulically balanced lateral design for maximum hydraulic efficiency

AquaFlo Centralised Water Filtration System



OPTIONAL
Auto Valve

STANDARD MEDIA ARRANGEMENT
Anthracite-Pure, ZeoPlus, DMI-Plus,
Graded River Silica Sand,
Graded Gravel

INSTALLATION PIPE
PVC | Stainless Steel | Ductile Iron |
Mild Steel | PPR | ABS

BACKWASH FLOW RATE: 40 – 48 m³/hr

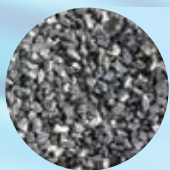
**Longer backwash time required if the recommended flow rate cannot be achieved at site*

AQUAFLO TOP MOUNT FILTERS

Filter Model	Filtration Flow Rates		Filter Specification <i>*Based on Single Filter Vessel</i>					
	Standard (m ³ /hr)	Maximum (m ³ /hr)	Diameter (mm)	Height (mm)	Port Size (mm)	Area (m ²)	Dry Weight (kg)	Media Weight (kg)
AQ500X	14.0	19.0	500	2009	40	0.20	33	248
AQ600X	20.0	27.0	600	1997	40	0.28	49	321
AQ700X	27.0	36.0	700	2002	40	0.38	51	446
AQ600Y	30.0	40.0	600	1997	40	0.28	49	329
AQ700Y	41.0	55.0	700	2002	40	0.38	51	470
AQ900X	46.0	61.0	900	1800	50	0.64	57	741
AQ700Z	55.0	73.0	700	2002	40	0.38	51	446
AQ900Y	69.0	92.0	900	1800	50	0.64	57	754
AQ900Z	92.0	123.0	900	1800	50	0.64	57	733

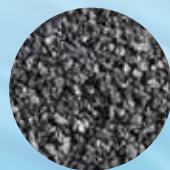
**Waterco reserves the right to change data & specification without prior notice*

FILTER MEDIAS



Anthracite-Pure

- Light and tough media
- Minimize clogging in subsequent layer
- Easy backwashing filter media



GAC-Plus

- Taste and odour removal
- Partial removal of chlorine
- Easy backwashing filter media



ZeoPlus

- Ammonia & “chlorine” odour removal
- High clarity water production
- Enhanced physical filtration



DMI-Plus

- Infusion technology catalytic media
- Iron-Manganese removal
- Arsenic removal



OPTIONAL
Auto Valve

STANDARD MEDIA ARRANGEMENT
Anthracite-Pure, ZeoPlus, DMI-Plus,
Graded River Silica Sand,
Graded Gravel

INSTALLATION PIPE
PVC | Stainless Steel | Ductile Iron |
Mild Steel | PPR | ABS

BACKWASH FLOW RATE: 40 - 48 m³/hr

**Longer backwash time required if the recommended flow rate cannot be achieved at site*

AQUAFLO SIDE MOUNT FILTERS

Filter Model	Flow Rate		Filter Specification <i>*Based on Single Filter Vessel</i>					
	Standard (m ³ /hr)	Maximum (m ³ /hr)	Diameter (mm)	Height (mm)	Port Size (mm)	Area (m ²)	Dry Weight (kg)	Media Weight (kg)
AQ1200X	81.0	108.0	1200	1935	80	1.13	175	1384
AQ1400X	111.0	148.0	1400	1955	100	1.54	270	2064
AQ1200Y	122.0	163.0	1200	1935	80	1.13	175	1401
AQ1600X	145.0	193.0	1600	1994	100	2.01	330	2470
AQ1200Z	163.0	217.0	1200	1935	80	1.13	175	1384
AQ1600Y	217.0	289.0	1600	1994	100	2.01	330	2512

**Waterco reserves the right to change data & specification without prior notice*



Graded River Silica Sand

- Physical filtration
- Sediment and suspended solids filtration



Graded Gravel

- Lower bed supporting media
- Increase backwash efficiency



Glass Pearl

- Superior clarity
- 3 micron filtration
- 20% less backwash water



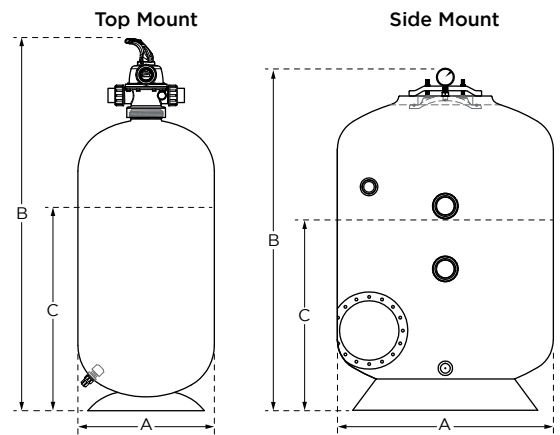
EcoPure

- Environmental friendly media
- Finer filtration than sand
- Long lasting and reliable

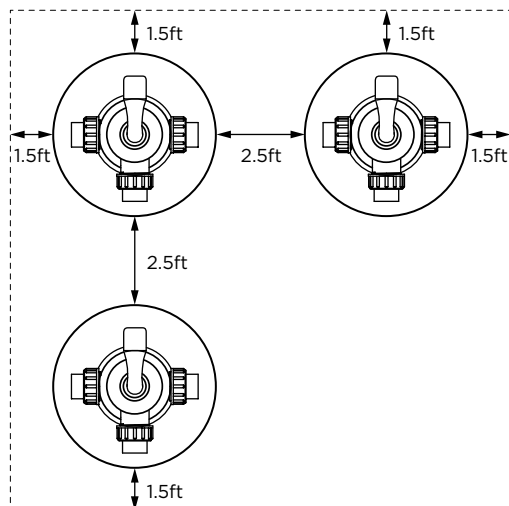
Complete Solution for Water Treatment

NON-STANDARD MODEL DIMENSION

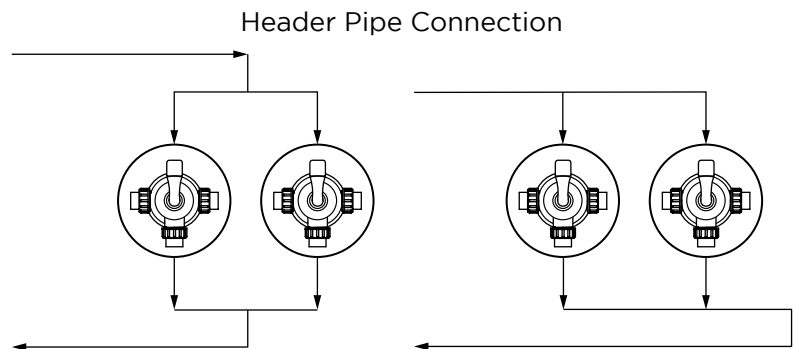
Specification		Top Mount	Side Mount
A. Diameter (mm)	From	600	600
	Up To	1,050	3,000
B. Height (mm)	From	1,385	1,689
	Up To	2,430	2,890
C. Bed Depth (mm)	From	600	1,000
	Up To	1,000	1,200



GENERAL FILTERS & PIPING LAYOUT



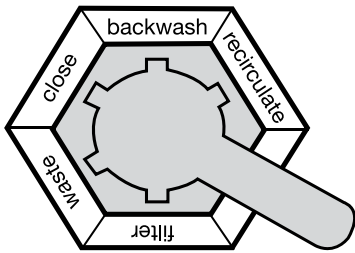
*Space allowance is important for pipe works and maintenance.



*The above connections will ensure the water to be distributed equally to all filters in the system.



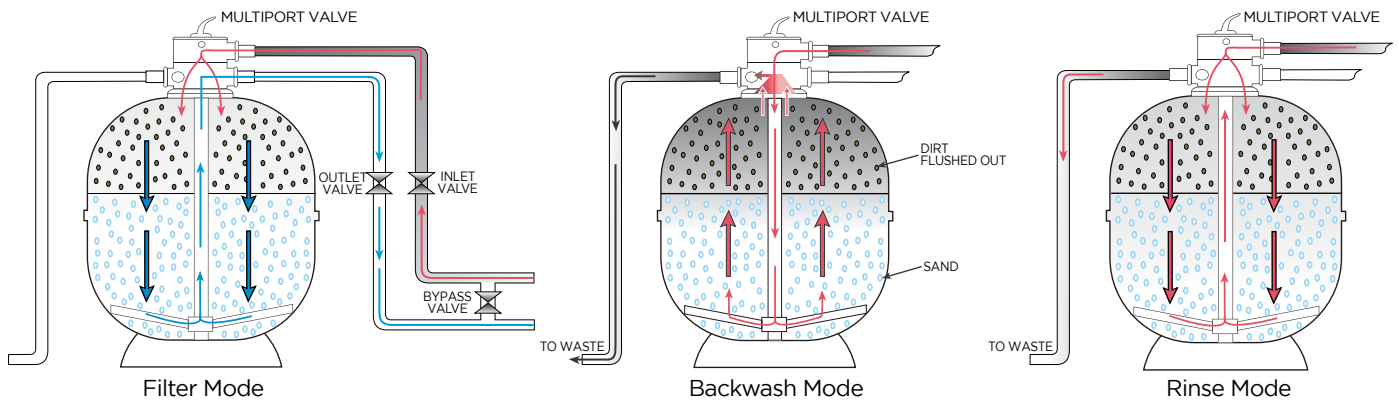
Clean the filters with ease



MULTIPORT VALVE MAIN FUNCTIONS

- Filter - downward flow through the filter bed to outlet
- Backwash - upward flow through the filter bed to waste
- Rinse - downward flow through the filter bed to waste
- Waste - bypass the filter bed to waste
- Re-circulate - bypass the filter bed to outlet
- Closed - no flow to the filter

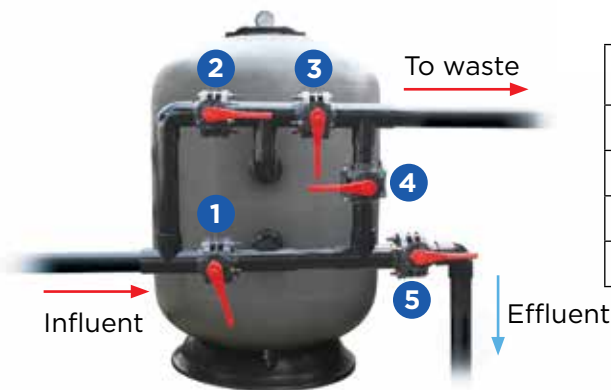
Cleansing a filter simply requires shifting the Multiport lever from the “filter” position to the “backwash” position, which reverses the flow of water in the filter, flushing the filter bed.



**Auto Valve available, please contact Waterco to find out more*

SIDE MOUNT VALVES SET UP

For Aquaflo side mount filters that are designed for higher water flow rate, the following valve configuration may be used. Multiple valves connection can be easily added-on with actuators to incorporate with the smart automation system.



MODE	1	2	3	4	5
Filtration	×	⊙	×	×	⊙
Backwash	⊙	×	⊙	×	×
Rinse	×	⊙	×	⊙	×
Bypass	⊙	×	×	×	⊙

⊙ Open × Close

Why Aquaflo FRP Filters?

Waterco fibre reinforced plastic (FRP) filters are known throughout the industry for their impressive performance and reliability. Manufactured from the highest grade of non-corrosive materials and employing the latest in fibreglass winding technology, FRP filters are built for many years of trouble-free operation. FRP filters are wound with precision by Waterco's digital filament winding machines, for refined consistency and superior quality.



ADVANTAGES OF FRP FILTERS



Fire Resistant



Longevity



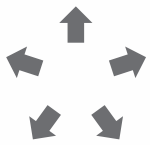
Non-Conductive



Weather Proof



UV Resistant



Able to Handle Stress



Corrosion Resistant



Light Weight & Easy to Handle



Minimum Maintenance

Stainless Steel vs Fibreglass Reinforced Plastic (FRP) Filters



STAINLESS STEEL FILTER

- Heavy and difficult to mobilize
- Passivated protective layer
- Surface will be affected by chemical
- Rust over time
- Expensive passivation touch up cost
- Higher initial cost



FIBRE REINFORCED PLASTIC FILTER

- Light and easy to handle
- UV protection layer
- Inert to chemical
- Never rust
- Lower maintenance cost
- Lower initial cost



Why you should choose Aquaflo filter for clearer water?



1. What are the benefits of the Waterco Aquaflo water filtration system compared to other water filters in the market?

The Waterco Aquaflo water filtration system comes with multi-media technology that is able to remove and reduce various harmful substances in the incoming water supply. Unlike conventional sand filters that only remove suspended solids, the Waterco Aquaflo uses five layers of filter media, including GAC-Plus/Anthracite, DMI-Plus, ZeoPlus, Graded River Silica Sand and Graded Gravel, which yield higher flow rates and longer service runs.

2. Is stainless-steel filter better than the Waterco Aquaflo water filtration system?

Costly passivation process is required for most of the stainless-steel filters in every few years to ensure its internal wall does not rust and affect the water quality.

The Waterco Aquaflo water filtration system is manufactured from the highest grade of non-corrosive materials and employing the latest in fibreglass winding technology, therefore it is built for many years of trouble-free operation. Unlike the stainless-steel filter, the Waterco Aquaflo water filtration system is chemically inert and will not react with any chemical that might present inside the incoming water supply.

3. Where can the Waterco Aquaflo water filtration system be installed?

The Waterco Aquaflo water filtration system can be installed for the

- ✓ Landed Residential Area & High-Rise Building
- ✓ Hospital & Government Complex
- ✓ Industrial & Manufacturing Facility
- ✓ Hotel, Resort & Theme Park
- ✓ School, College & University
- ✓ Agriculture, Plantation & Aquaculture

4. Is chlorine in the water bad for me? Can the Waterco Aquaflo water filtration system remove chlorine from the municipal water supply?

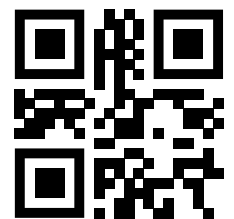
Chlorine in itself does not appear to be a problem other than the aesthetic concerns of undesirable taste and odour it creates. The Waterco Aquaflo water filtration system offers two different top layer media to suit every individual needs.

Anthracite Pure: It is a high-hardness mineral coal of great carbon content. It is formed, like all mineral coals, by a slow process (millions of years) of plant transformation by effect of pressure and temperature. While it does not remove chlorine; and due to the special shape of its grains, Anthracite Pure allows the suspended particles to be retained in the depth of the filtering bed thus making it an excellent filter media for water clarification in drinking or industrial use.

GAC-Plus: It is known as Granular Activated Carbon, which offers wide range of application in water purification and industrial process liquids. Its porous structure effectively removes dissolved organic matter, pesticides and chemicals in raw water source, while significantly improves water quality. Around 50-60% of chlorine will be removed from the water after being filtered by GAC-Plus, while remaining chlorine will be just enough for disinfection purpose.

5. Beside the state-of-the-art technology of Aquaflo water filtration system, why many customers in the past have chosen the Waterco products?

Waterco was established back in 1981 in Sydney, Australia and it was public listed on the Australia Stock Exchange in 1989. Since then, Waterco has devoted its core business into supplying a wide range of domestic and industrial water filtration system through its wide network of dealers that cover every state in the country. Waterco exports its products to over 40 countries via its offices in Australia, New Zealand, China, Malaysia, Singapore, Indonesia, United Kingdom and the United States of America. Waterco manufacturing plant in Malaysia is ISO 9001 Certified and capable to produce DOSH / JKKKP Certified water filters upon request by the customer.



[Find Out More](#)

Bridging the Access of Clear Water to the Community...

RESIDENTIAL

Amara Boulevard Condo Batu Caves, Selangor
Belfield Condominium, Kuala Lumpur
Bougainville Tower, Kuala Lumpur
Bungaraya Condominium Subang, Selangor
Casa Subang Subang Jaya, Selangor
Continental Height Jalan Klang Lama, Kuala Lumpur
Dua Sentral, Kuala Lumpur
Fawina Court Ampang Jaya, Selangor
First Residence Condo Kepong, Kuala Lumpur
GCB Court, Kuala Lumpur
I-City Shah Alam, Selangor
Menara Bangsar Condominium, Kuala Lumpur
Palladium Condominium, Kuala Lumpur

Pantai View Bangsar, Kuala Lumpur
Pelita Indah Condominium, Johor Bharu
Petaling 8 Condominium Sri Petaling, Kuala Lumpur
Prima Setapak Condominium, Kuala Lumpur
Ronald McDonald House Charities Cheras, Kuala Lumpur
Saujana Residency Subang Jaya, Selangor
Seri Kasturi Apartment Setia Alam, Selangor
Setapak Green Condominium, Kuala Lumpur
Setapak Ria Condominium, Kuala Lumpur
Southkey Residences Johor Bharu, Johor
University Tower Condominium Petaling Jaya, Selangor
Villa Orkid Condominium Segambut, Kuala Lumpur

INDUSTRIAL

Dindings Poultry Processing S/B Setiawan, Perak
DRB Hicom, Shah Alam
Hock Soon Poultry Farm Sdn Bhd, Bidor, Perak
HUKM (New Wing) Cheras, Selangor
KLIA DCA Tower Sepang, Selangor
Lai Huat Liquid Egg Sdn Bhd, Melaka

Oil Palm Plantation Lahad Datu, Sabah
Pearlye Dobi Lukut, Negeri Sembilan
Perfect Tube Ice Puncak Alam, Selangor
Pusat Perubatan Universiti Malaya, Kuala Lumpur
Regent Food Industries Sdn Bhd Klang, Selangor
Suzuki Latex Industry Malaysia

COMMERCIAL

Amcorp Mall Petaling Jaya, Selangor
Carcosa Seri Negara, Kuala Lumpur
Dynasty Inn Kota Bharu, Kelantan
Eastin Hotel Petaling Jaya, Selangor
Golden Lake Hotel Segamat, Johor
Holiday Villa Service Apartment, Kuala Lumpur
Hyatt Regency Club Subang, Selangor
Kota Bharu City Centre Service Apartment, Kelantan
Kuala Lumpur International Hotel, Kuala Lumpur
Menara Trend Taman Intan Klang, Selangor
Mr J Hotel Wakaf Che Yeh (1) Kota Bharu, Kelantan

Nilai International College Subang, Selangor
Renaissance Hotel, Johor Bharu
Suasana All Suites Hotel, Johor Bharu
Summit Hotel Subang, Selangor
Sunway College Johor Bharu
Sunway University College Subang, Selangor
Sutera Mall, Johor Bharu
The Saujana Hotel Shah Alam, Selangor
W Hotel, Kuala Lumpur (MCC)
Wisma Tong Ah, Kuala Lumpur
Holiday Villa Kota Bharu, Kelantan



THE BRANDLAUREATE
BEST BRANDS
AWARDS 2017-2018
For Water Treatment Solutions



Purity in every drops

TAKING CARE OF YOUR WATER SINCE 1981...



CONTACT WATERCO

Waterco's head office is situated in Sydney, Australia with international offices, manufacturing plants and warehouses located in Australia, New Zealand, Malaysia, Indonesia, Singapore, China, the US, Canada, and the UK.

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water, the liquid of life



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