

DYNAMIC AND POWERFUL

MULTICYCLONE PRE-FILTERS



MULTI  CYCLONE



MULTI CYCLONE

CENTRIFUGAL PRE-FILTRATION

Waterco's award winning MultiCyclone is a brilliant pre-filtration device that works on the basis of centrifugal water filtration and is designed with no moving parts and no filter media to clean or replace.

- Minimises filter maintenance and saves water
- No filter media to clean or replace
- Compact size and ease of installation
- Suitable for new and existing installations
- 2 year warranty

The MULTICYCLONE FAMILY



ADVANTAGES OF MULTICYCLONE

Particle removal efficiency

MultiCyclone is placed at the initial stage of the filtration system to pre-filter up to 80% of incoming dirt load, before reaching the media or cartridge filter.

Ease filter workload

As the MultiCyclone intercepts the first stage of heavy dirt load, it then eases the workload of the media or cartridge filter so that the flow rate remains unchanged.

Ease of installation

The MultiCyclone can be installed vertically and directly onto the discharge port of the water pump. The compact size reduces the footprint of the equipment pad and even when the MultiCyclone is filled with water, it is lightweight for handling.

Minimise backwash frequency

The installation of a MultiCyclone as a pre-filter to a media filter can reduce **its backwash frequency**, resulting in significant **water savings per year**.

Minimise cartridge cleaning and replacement

The installation of a MultiCyclone as a pre-filter to a cartridge filter can reduce filter cartridge cleaning and replacement, depending on the size of the filter cartridge.



HOW DOES IT WORK?

The MultiCyclone works on the basis of centrifugal water filtration. There are no moving parts to wear and tear, and no filter media to clean or replace.



- i. Incoming water enters hydrocyclones tangentially, generating a strong centrifugal effect.
- ii. The sediment is spun out to the hydrocyclones wall, and then spirals down to the sediment chamber*.
- iii. The filtered water migrates towards the centre of the hydrocyclones where the flow reverses and spirals upwards through the outlet.
- iv. Accumulation of sediment can be visibly monitored through the MultiCyclone's clear sediment chamber.

***Note:** The MultiCyclone is designed to filter sediment that is heavier than water, floating debris cannot be filtered out by centrifugal filtration.

Simple maintenance

The MultiCyclone is easily cleaned by opening its purge valve. Minimal amount of water is discharged as cleansing a MultiCyclone will require approximately 5 seconds only.



MULTI CYCLONE 4

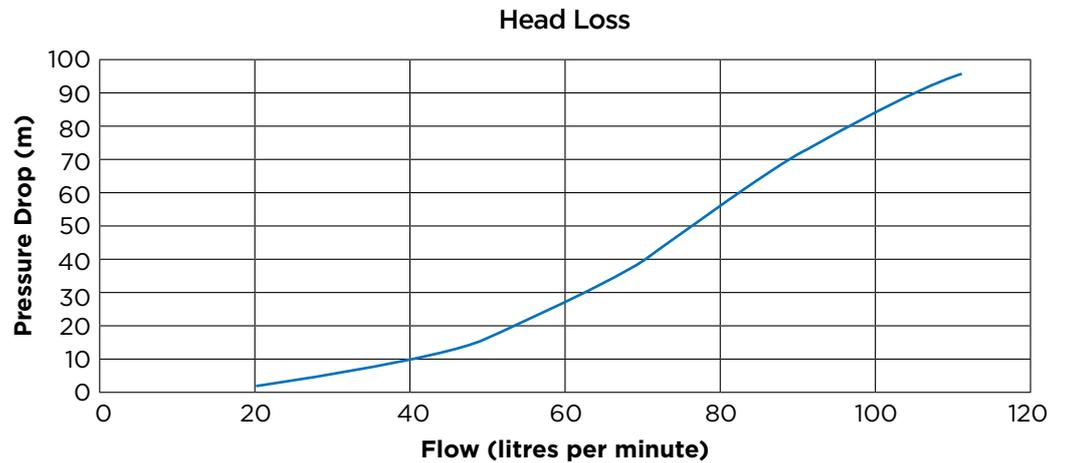


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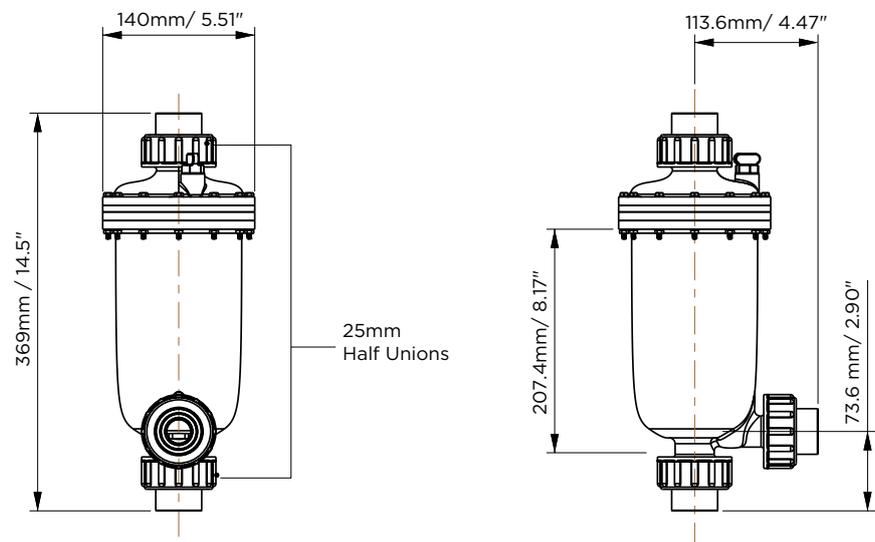
- Minimises filter maintenance and saves water
- No filter media to clean or replace
- Compact size and ease of installation
- Suitable for new and existing installations

Specifications

Model	Hydrocyclones	Connection Ports	Minimum Flow	Maximum Flow	Maximum Pressure
MultiCyclone 4	4	25mm / 1"	20lpm / 1.2 m ³ /hr	110lpm / 6.6m ³ /hr	350 kPa (50psi)



Dimensions (mm)



MULTI CYCLONE 12

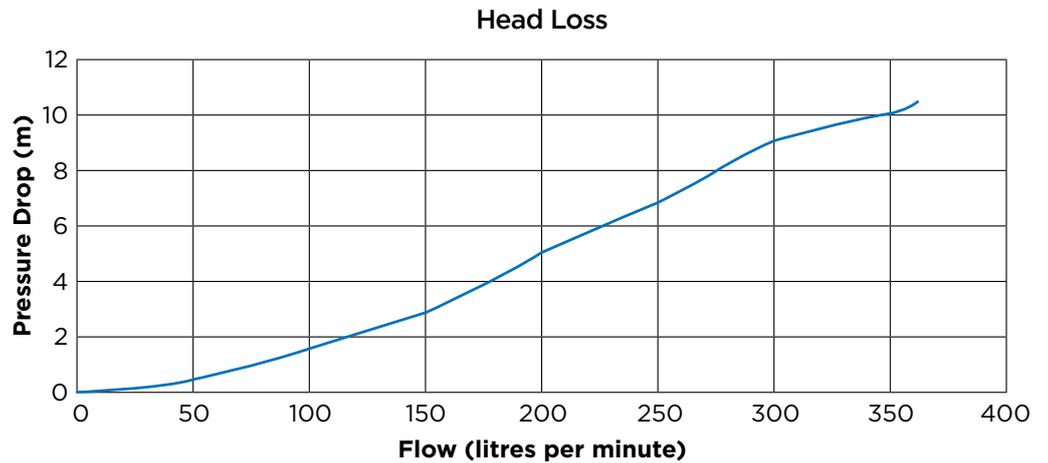


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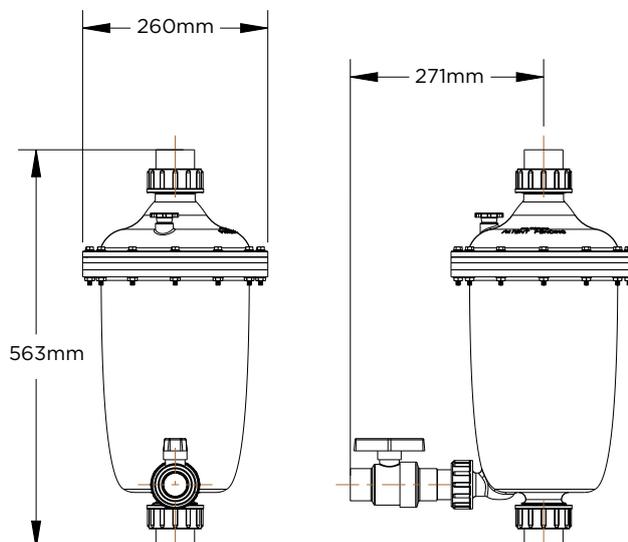
- Minimises filter maintenance and saves water
- No filter media to clean or replace
- Suitable for new and existing installations

Specifications

Model	Hydrocyclones	Connection Ports	Minimum Flow	Maximum Flow	Maximum Pressure
MultiCyclone 12	12	40mm / 1½"	40lpm / 2.4m ³ /hr	300lpm / 18m ³ /hr	350kPa (50psi)



Dimensions (mm)



MULTI CYCLONE 16 & HI-TEMP



MC 16



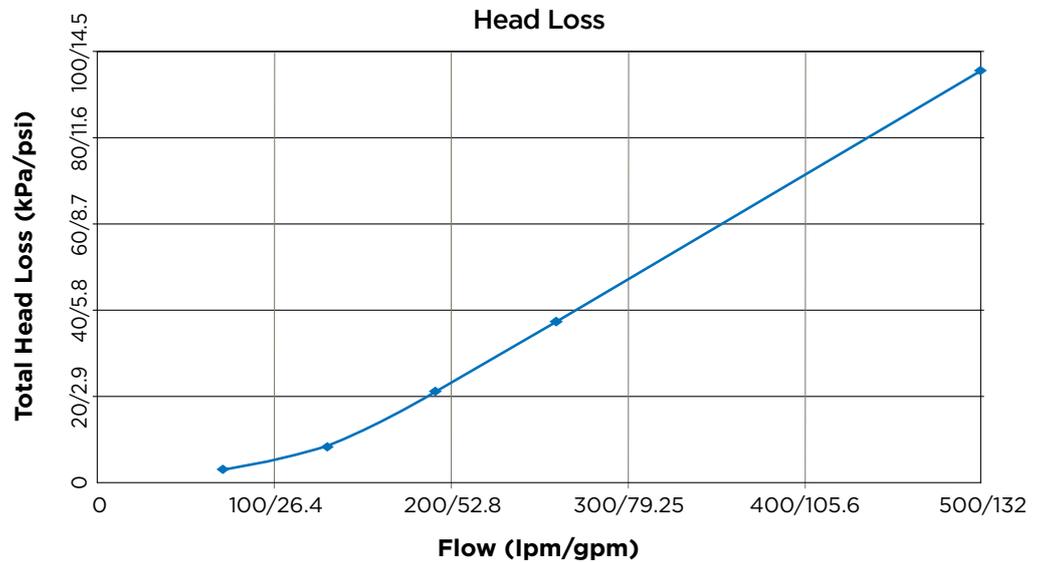
MC HI-TEMP

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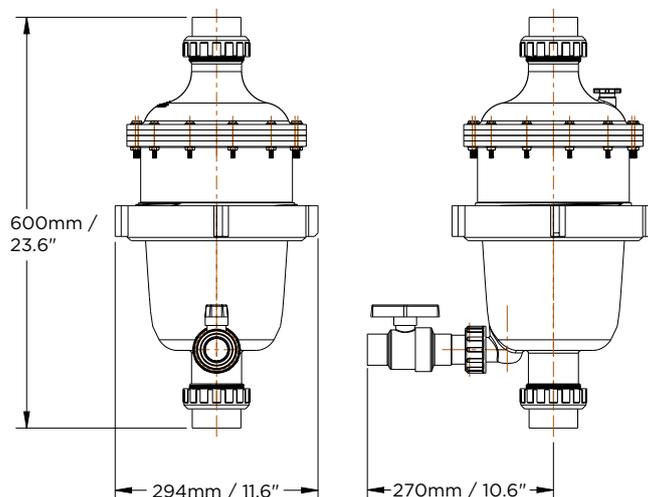
- Minimises filter maintenance and saves water
- No filter media to clean or replace
- Suitable for new and existing installations

Specifications

Model	Hydrocyclones	Connection Ports	Minimum Flow	Maximum Flow	Maximum Pressure
MultiCyclone 16 / MultiCyclone Hi-Temp	16	50mm / 2"	50lpm / 3m ³ /hr	500lpm / 30m ³ /hr	350kPa (50psi)



Dimensions (mm/in)



MultiCyclone Hi-Temp is fitted with CPVC unions to withstand maximum temperature up to 70 °C.

MULTI CYCLONE PRO

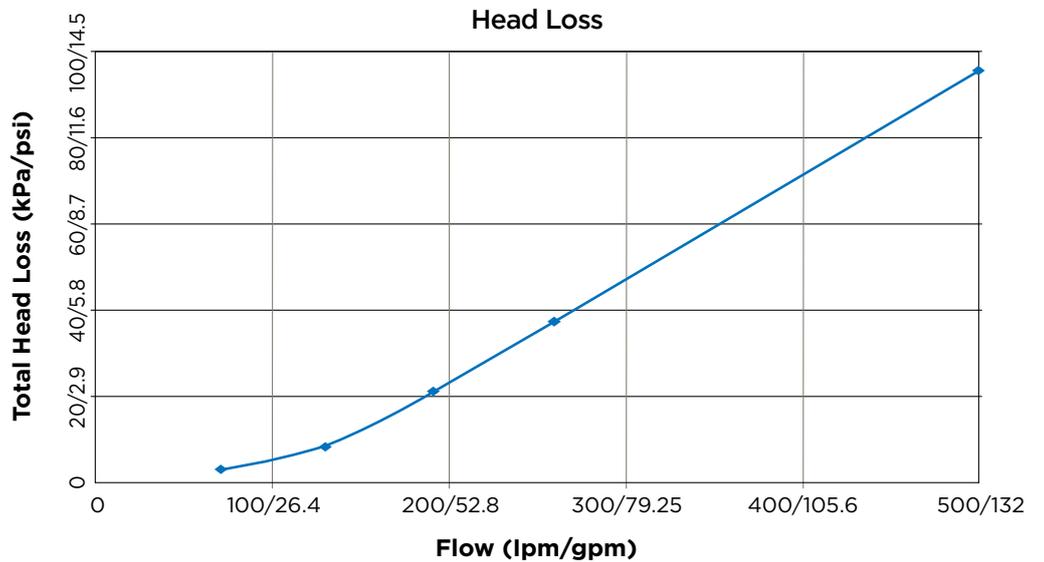


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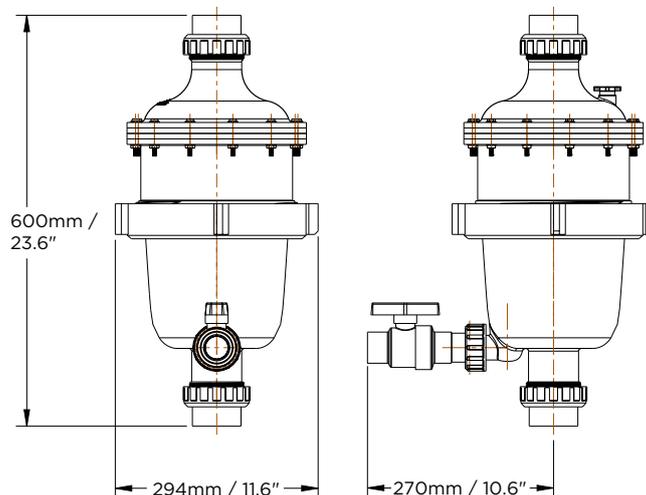
- Specifically designed for commercial applications that require higher pressure rating
- Outstanding pressure rating of 690kPa (100PSI)

Specifications

Model	Hydrocyclones	Connection Ports	Minimum Flow	Maximum Flow	Maximum Pressure
MultiCyclone Pro	16	50mm / 2"	50lpm / 3m ³ /hr	500lpm / 30m ³ /hr	690kPa (100psi)



Dimensions (mm/in)



MULTI CYCLONE 70XL



The MultiCyclone 70XL is an evolution of Waterco's MultiCyclone technology. Waterco has specially created a commercial version by increasing its number of hydrocyclones to cater for the higher flow rates and redesigned to cope with the demanding requirements of commercial installations.

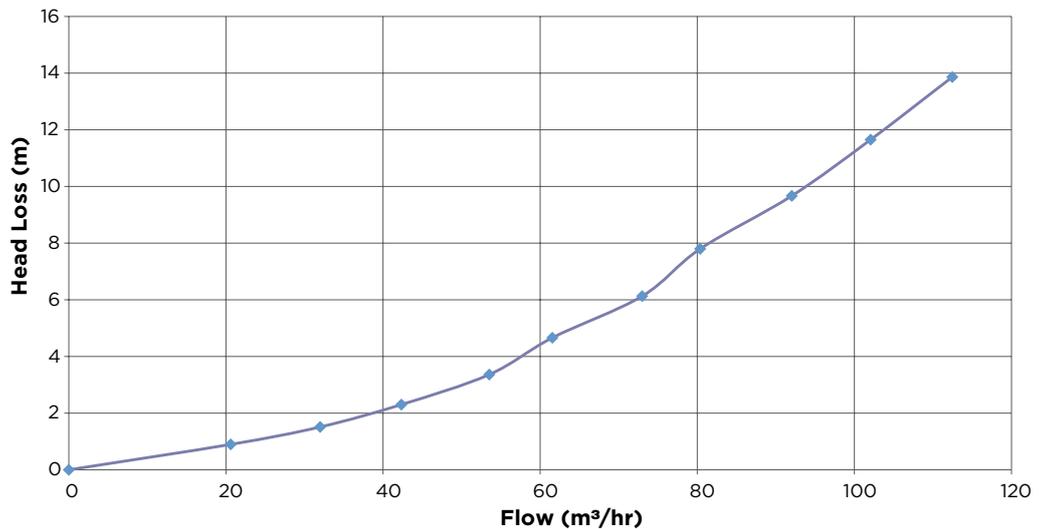
The MultiCyclone 70XL has been specially created to handle larger water capacities for commercial and industrial application.

- Maximum flow rate of 90m³/hr
- Suitable for new and existing commercial installations

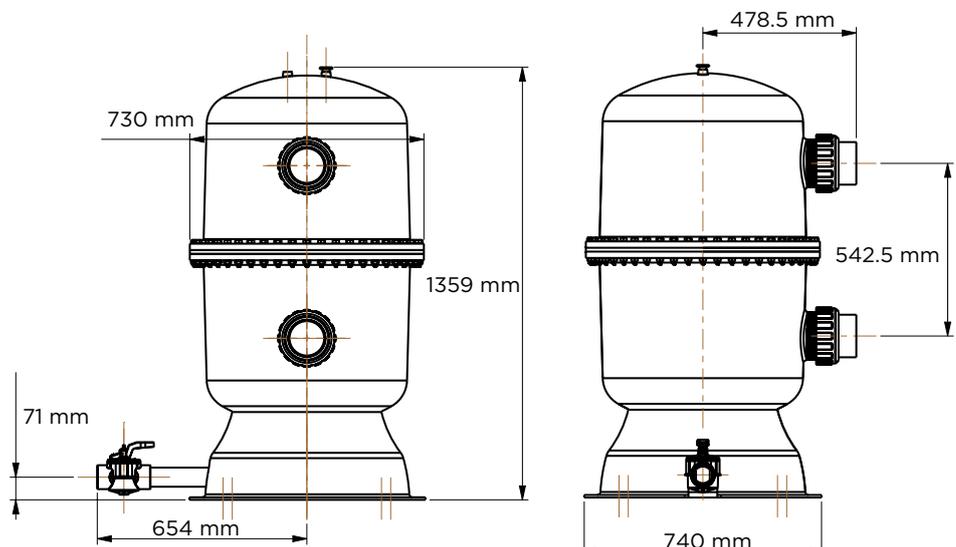
Specifications

Model	Connection Ports	Minimum Flow	Maximum Flow	Maximum Pressure
MultiCyclone 70XL Commercial	100mm	36m ³ /hr	90m ³ /hr	3.5Bar/50psi/350kPa

MultiCyclone 70XL Head Loss Curve



Dimensions (mm)



MULTI CYCLONE 12 & 16 PLUS



MC 12 PLUS

MC 16 PLUS

MultiCyclone Plus/Ultra combines centrifugal and cartridge filtration into one streamline housing, creating an ultra compact filtration system that can be vertically installed on a pool pump.

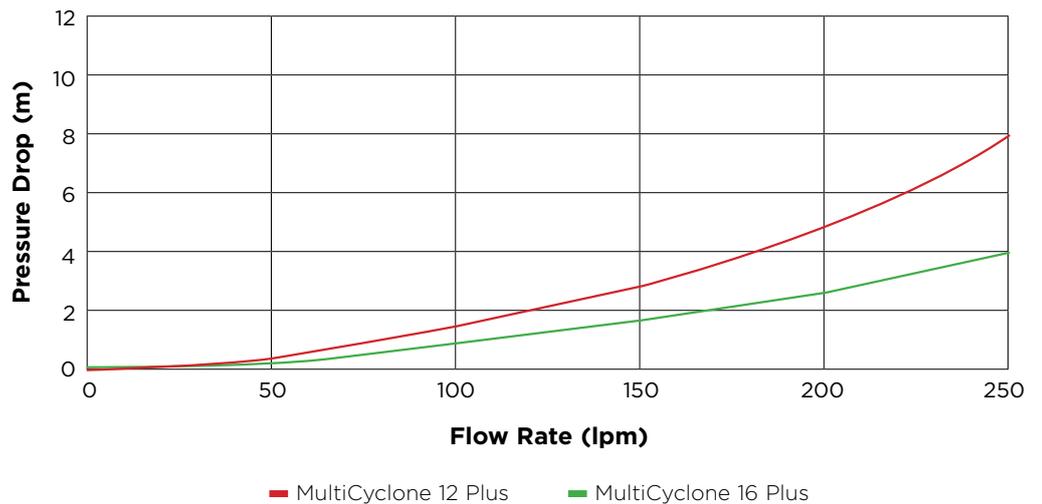
- Dual stage filtration
- Ultra compact
- Ease of maintenance

Specifications

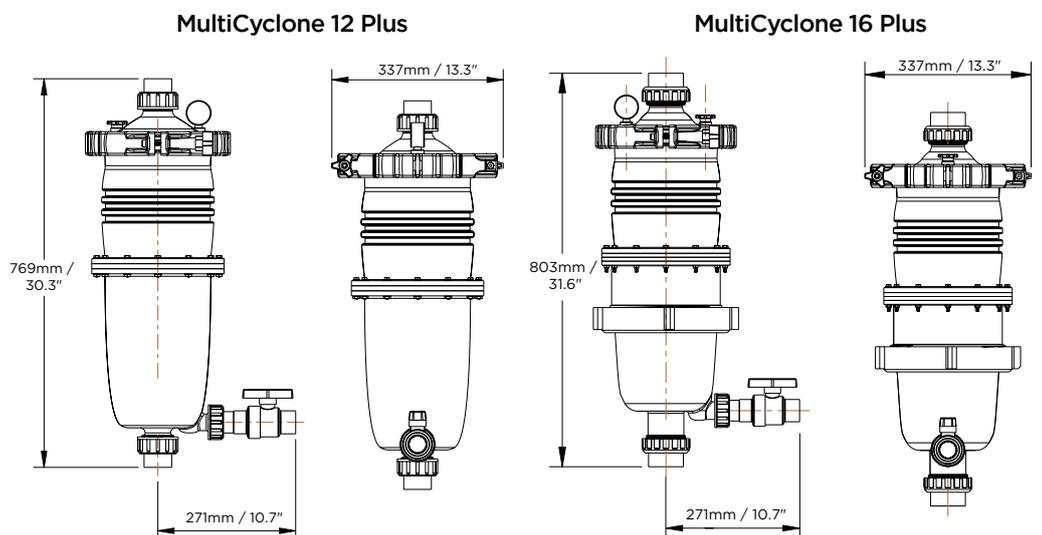
Model	Hydrocyclones	Connection Ports	Minimum Flow	Maximum Flow	Filter Area	Maximum Pool Size	Maximum Pressure
MultiCyclone 12 Plus	12	40mm / 1½"	40lpm	152lpm	3.7m ² / 40 sq.ft	73,000l	350kPa (50psi)
MultiCyclone 16 Plus	16	50mm / 2"	50lpm	152lpm	3.7m ² / 40 sq.ft	73,000l	350kPa (50psi)

Maximum flow is limited by the surface area of the filter cartridge.
Residential Cartridge Design Filtration Rate: 41 lpm/m² (1gpm/ft²)

Head Loss Curves



Dimensions (mm/in)



MULTI CYCLONE 12 & 16 ULTRA



MultiCyclone Plus/Ultra combines centrifugal and cartridge filtration into one streamline housing, creating an ultra compact filtration system that can be vertically installed on a pool pump.

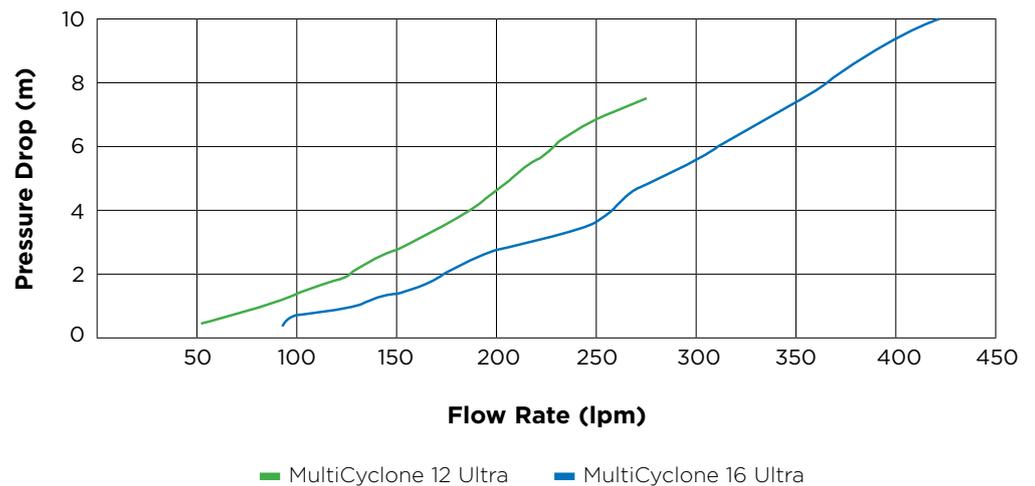
- Dual stage filtration
- Ultra compact
- Ease of maintenance

Specifications

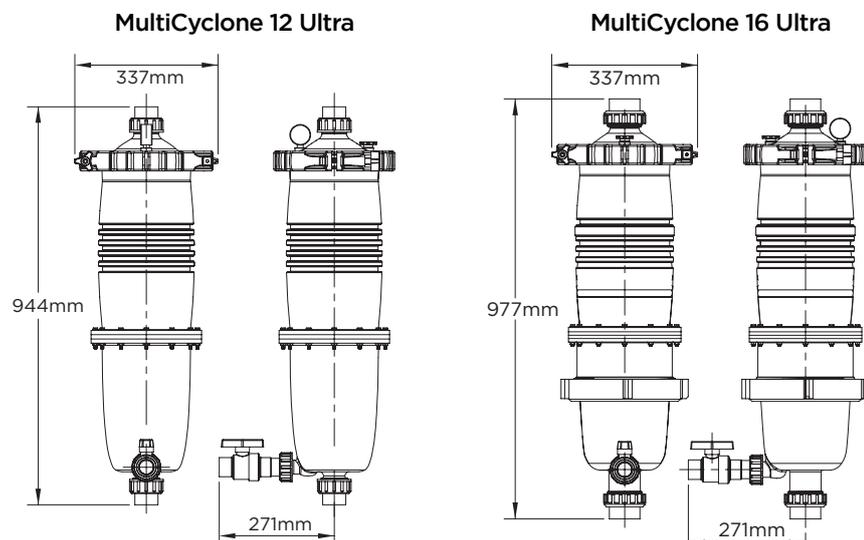
Model	Hydrocyclones	Connection Ports	Minimum Flow	Maximum Flow	Filter Area	Maximum Pool Size	Maximum Pressure
MultiCyclone 12 Ultra	12	40mm / 1 1/2"	40lpm	225lpm	6.9m ² / 75 ft ²	108,000l	350kPa (50psi)
MultiCyclone 16 Ultra	16	50mm / 2"	50lpm	280lpm	6.9m ² / 75 ft ²	134,000l	350kPa (50psi)

Maximum flow is limited by the surface area of the filter cartridge.
Residential Cartridge Design Filtration Rate: 41 lpm/m² (1gpm/ft²)

Head Loss Curves



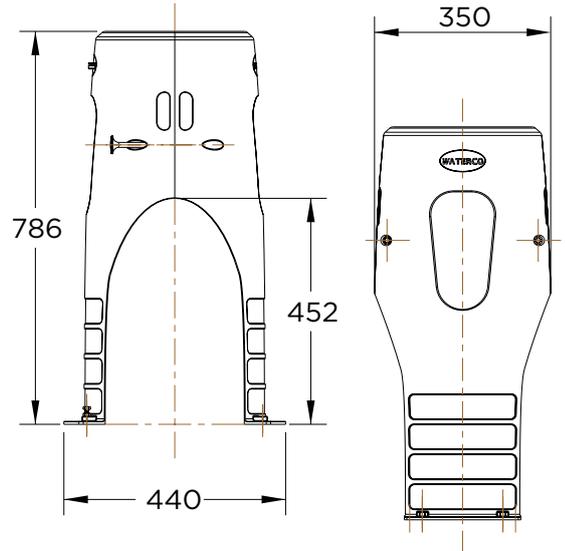
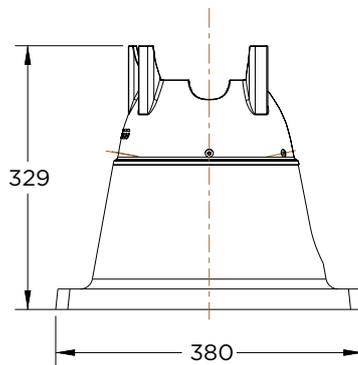
Dimensions (mm)



MULTICYCLONE ACCESSORIES & CONSUMABLES



Dimensions (mm)



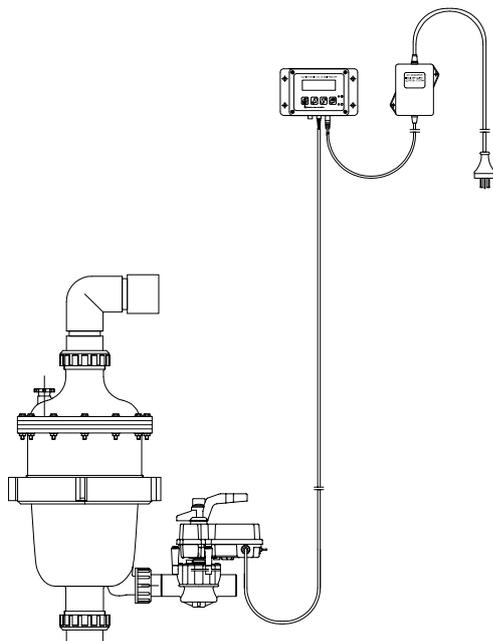
Note: MultiCyclone Support Stand is suitable for most Waterco Domestic Pool Pumps. Excluding Hydrostar & all Commercial Pumps.

MULTICYCLONE AUTO PURGE SYSTEM

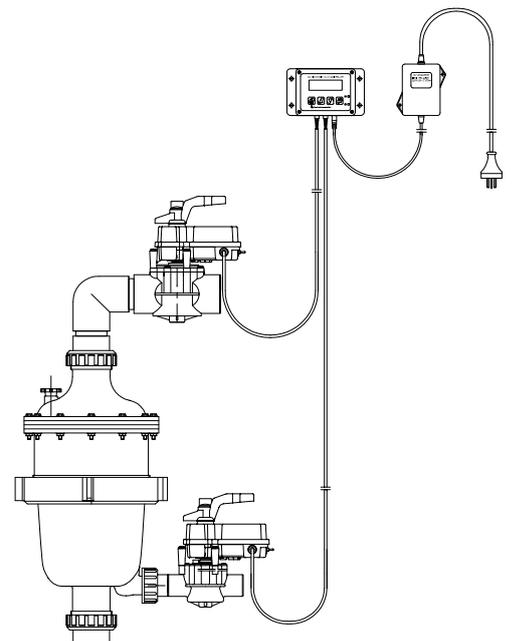


The MultiCyclone Auto Purge System is designed to automatically control the purging of captured debris collected by Waterco's residential or commercial MultiCyclone's and uses the latest controller system for easy operation.

- Setable 1 to 99 day purging cycle interval
- Setable 3 to 180 second purging duration
- Setable 5 to 60 second valve rotating time, 25sec default



MultiCyclone 12/16 Auto Purge System 1 actuator



MultiCyclone 12/16 Auto Purge System 2 actuators

Warranty for All MultiCyclone

Waterco is proud to show its absolute confidence in its range of MultiCyclone by offering a 3 years domestic application warranty and 1 year warranty on all other components. Commercial applications attract a 1 year warranty.

Items	Domestic	Commercial
Tank Body	3 years	1 year
All Other Components	1 year	1 year

**Please refer to Waterco's warranty terms and conditions.*

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