

# MULTI CYCLONE

Centrifugal Pre-filter



MultiCyclone is a brilliant new pre-filtration device that can save water and minimise pool filter maintenance.

Based on the principals of centrifugal water filtration, MultiCyclone filters up to 80% of the pool's dirt load before it reaches the pool filter and only requires 15 litres of water to cleanse.

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



## Ease filter workload

MultiCyclone pre-filters up to 80% of the filter's incoming dirt load easing the workload of the swimming pool filter. As the MultiCyclone intercepts more and more dirt, the flow rate remains unchanged.

- ✓ Improving pool water circulation
- ✓ Enhancing the performance of the automatic pool cleaner and in floor cleaning system
- ✓ Allowing effective pool vacuuming without burdening the pool filter
- ✓ Minimising filter maintenance and saving water



## Minimise backwash frequency

The installation of a MultiCyclone as a pre-filter to a sand filter can reduce its backwash frequency to once per year, resulting in a saving of up to 7000 litres of water per year for an average domestic sized swimming pool.



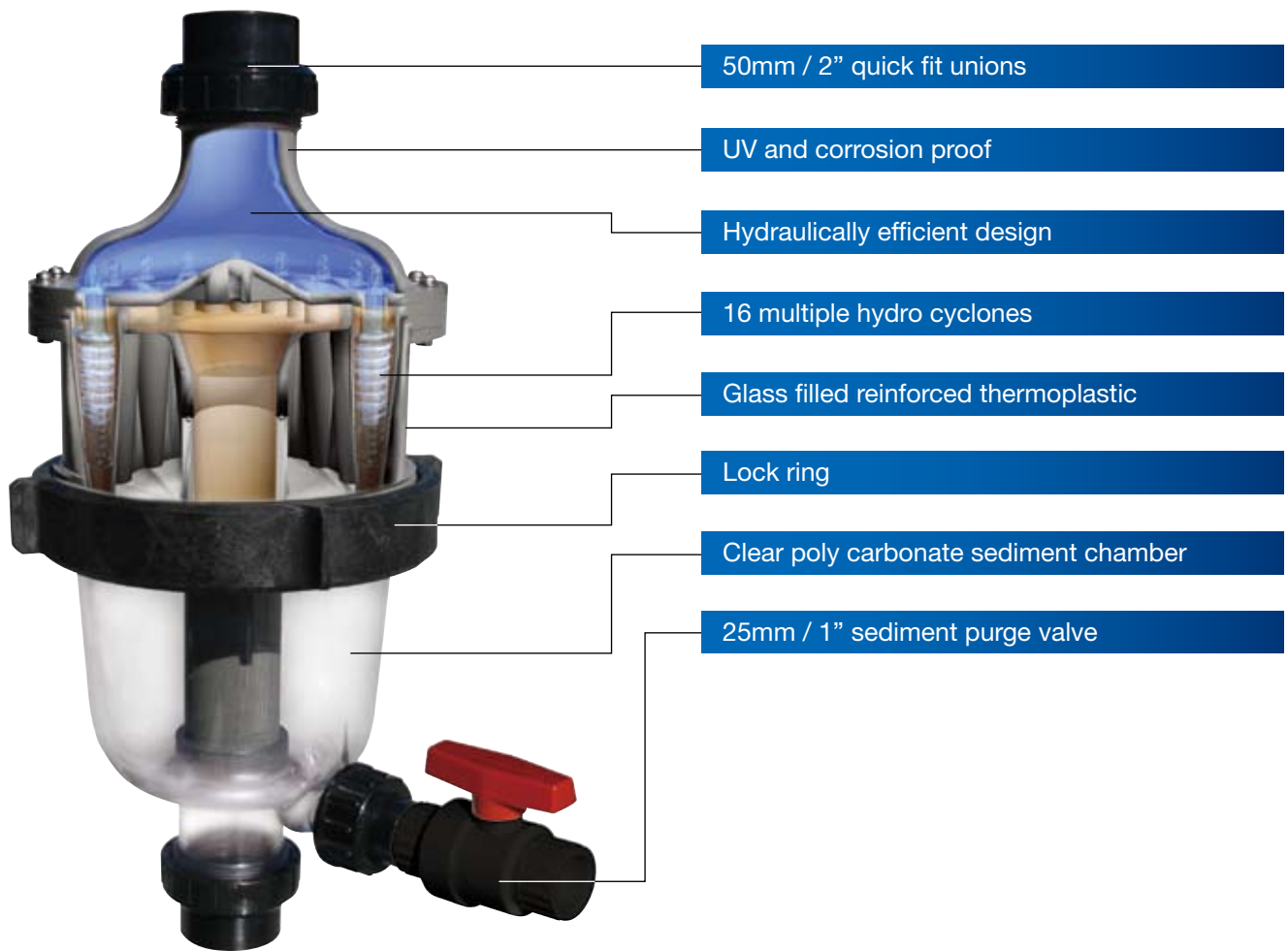
## Minimise filter cartridge cleaning and replacement

The installation of a MultiCyclone as a pre-filter to a cartridge filter can reduce filter cartridge cleaning and replacement to once per swimming season and even up to once per year, depending on the size of the cartridge filter.



## Centrifugal water filtration

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 16 hydro cyclones tangentially, generating a strong centrifugal effect.
- ii. The sediment is spun out to the hydro cyclone's wall, and then spirals down to the sediment chamber\*.
- iii. The filtered water migrates towards the centre of the hydro cyclone 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. Only 15 litres of water is discharged to cleanse the MultiCyclone.



## Multi-award winning and Internationally certified



### Swimming Pool and Spa Association (SPASA) most innovative product award 2008

Waterco's MultiCyclone centrifugal pre-filter has been awarded SPASA NSW, SPASA SA & SPASA QLD most innovative product award. The Swimming Pool & Spa Association (SPASA) is a non-profit organisation dedicated to maintaining and improving standards within the industry for the betterment of consumers, pool builders and suppliers.

SPASA's panel of independent judges awarded Waterco's MultiCyclone centrifugal filter for its water saving features and its innovative method of filtering sediment without any filter media or moving parts.



### Smart Approved WaterMark

MultiCyclone has been awarded the Smart Approved WaterMark. The Smart Approved WaterMark is Australia's water saving labelling program for products and services which are helping to reduce outdoor water use.

Smart Approved WaterMark scheme has been developed to address outdoor water conservation. It is a voluntary and not-for-profit program that allows consumers to make an informed choice towards saving water.



### NSF certification

The MultiCyclone has been certified by NSF international; NSF tested the MultiCyclone for its structural integrity, head loss, turbidity removal, and clean ability. Its turbidity tests proved that the MultiCyclone was capable of filtering down to 30 microns.

NSF International is a not-for-profit the world leader in standards development, product certification, education, and risk-management for public health and safety. The NSF Mark is recognized for its value in international trade around the world and is respected by regulatory agencies at the local, state, and federal levels.



### 2007 Piscina Barcelona Sustainability Award

The Multi Cyclone was awarded the 2007 Piscina Barcelona Sustainability Award at the prestigious International Swimming Pool Exhibition, Piscina BCN.

## Multiple applications

The MultiCyclone has been utilised in a vast array of applications from cooling water, aquaculture, koi ponds, and water recycling to commercial water filtration.



## Flow rates

Minimum flow rate	Maximum flow rate
50 lpm / 3 m <sup>3</sup> /hr / 13 gpm	500 lpm / 30 m <sup>3</sup> /hr / 132 gpm

## Filtration efficiency

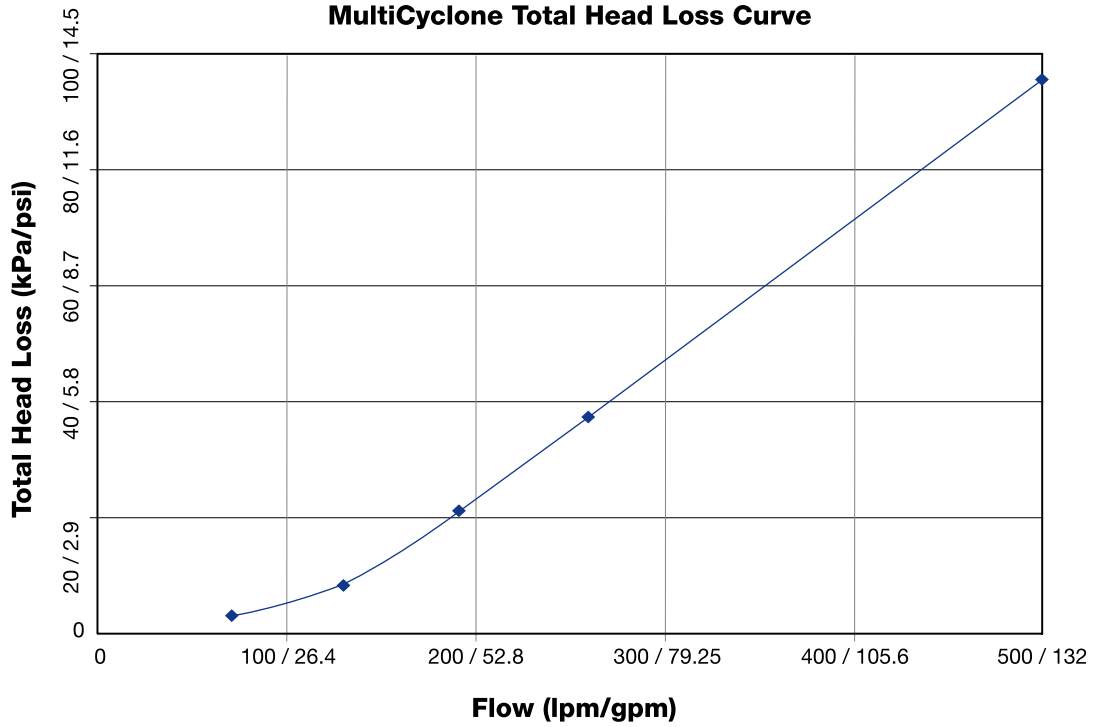
Laboratory tests revealed that the MultiCyclone is effective in filtering particles sized 30 microns and upwards.

0.5-10um	<1
10-20um	<1
20-30um	75.4%
30-40um	96.8%
40-50um	98.6%
50-60um	99%
60-70um	99.4%
70-80um	99.2%
>80um	99.6%

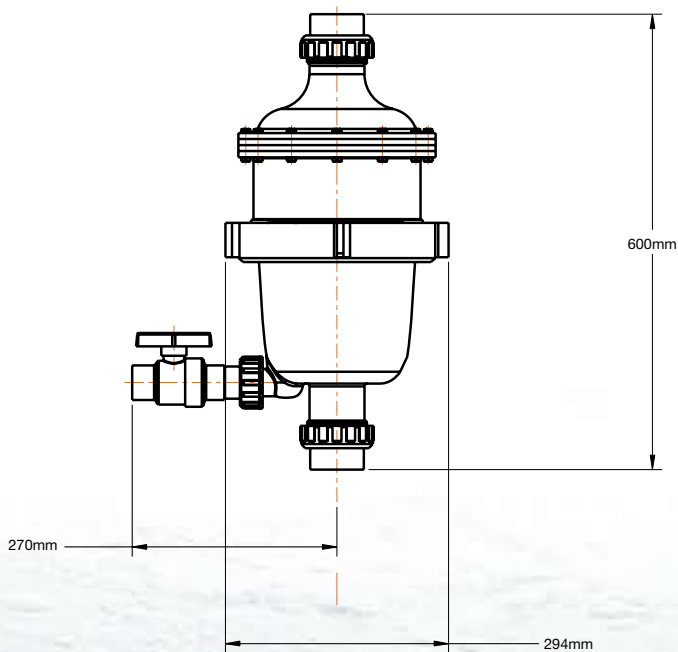




## MultiCyclone Total Head Loss Curve



## Dimensions



Waterco's MultiCyclone is designed to work effectively with Waterco's extensive range of pumps and filters.

### Warranty

MultiCyclone is covered by a 2 year warranty and 1 year warranty on labour. Commercial installations are covered by a 1 year warranty.

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