



**MULTI**  **CYCLONE**

**Certikin**

# Centrifugal water filtration

- This unique filtration device is capable of saving water and reducing filter maintenance.
- 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.



# MultiCyclone

50mm quick fit unions

UV and corrosion proof

16 multiple hydro cyclones

Lock ring

Hydraulically efficient design

Glass filled reinforced thermoplastic

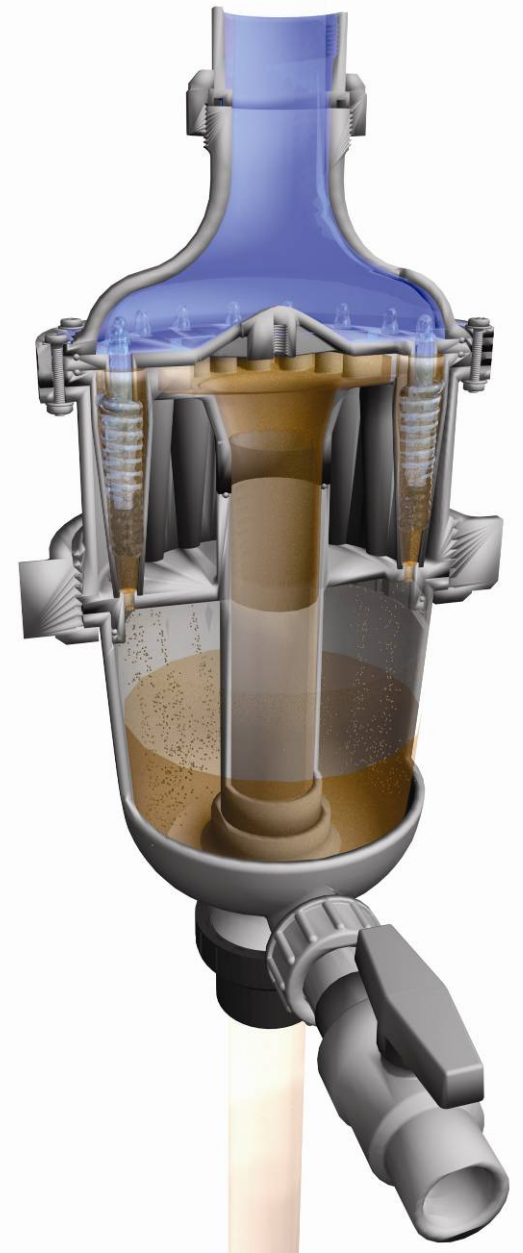
Clear poly carbonate sediment bowl

25mm sediment purge valve



## How does it work?

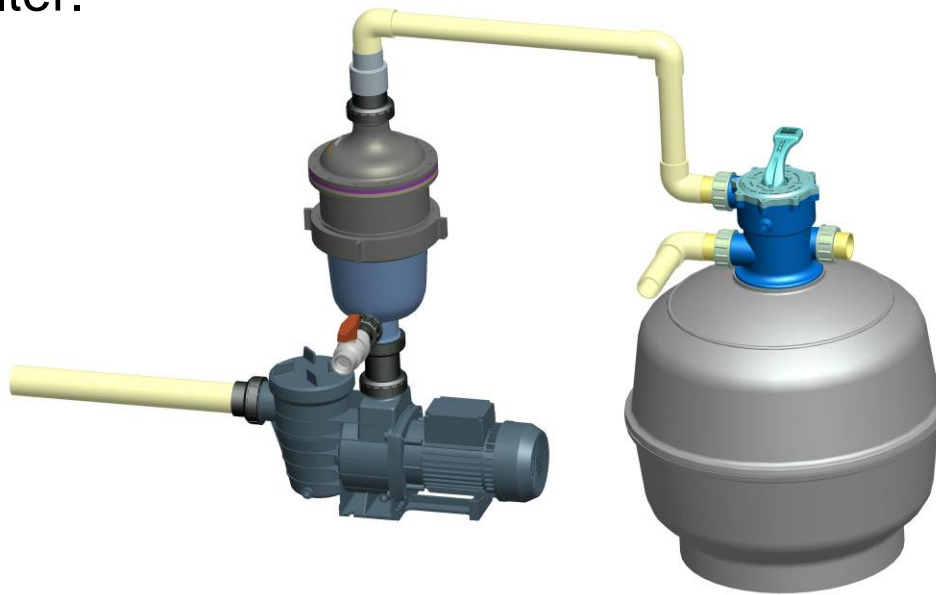
- Incoming water is guided by a diverter plate so that it enters multiple hydro cyclones tangentially, generating a strong centrifugal effect
- This spins the sediment out to the hydro cyclone's wall and then spirals it down to the sediment sump, while the cleansed water spirals upwards.
- The MultiCyclone is cleaned by simply opening the purge valve. Only 15 litres of water is discharged to clean the MultiCyclone of sediment.



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## Save Water

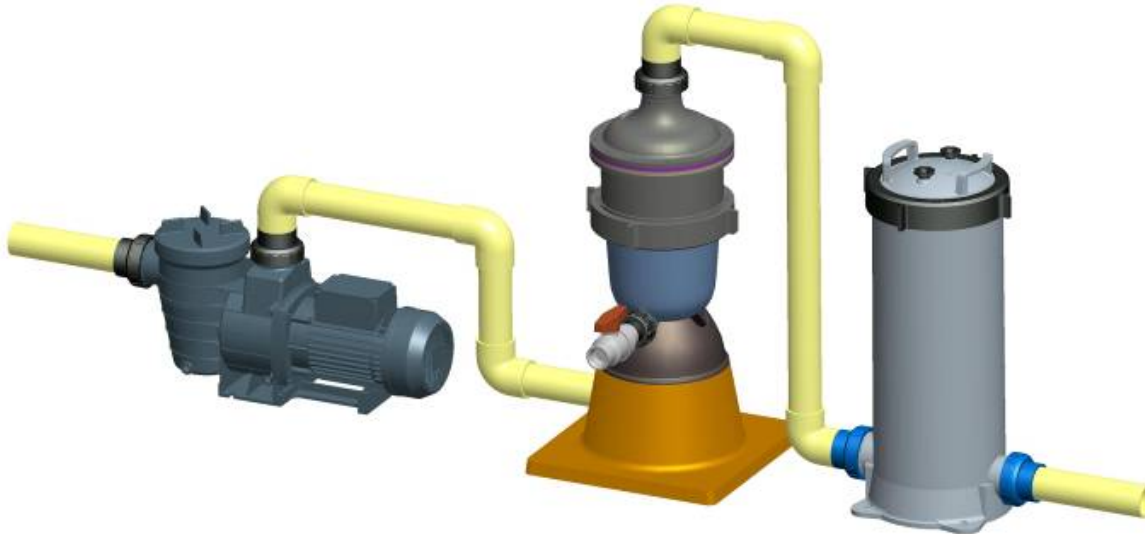
- The MultiCyclone is ideal as a pre-filter to extend the life of your existing filter.



MultiCyclone + Sand (granular) filter =

Reduction in backwash frequency + Extends the life of the filter media

## Reduce filter cartridge maintenance

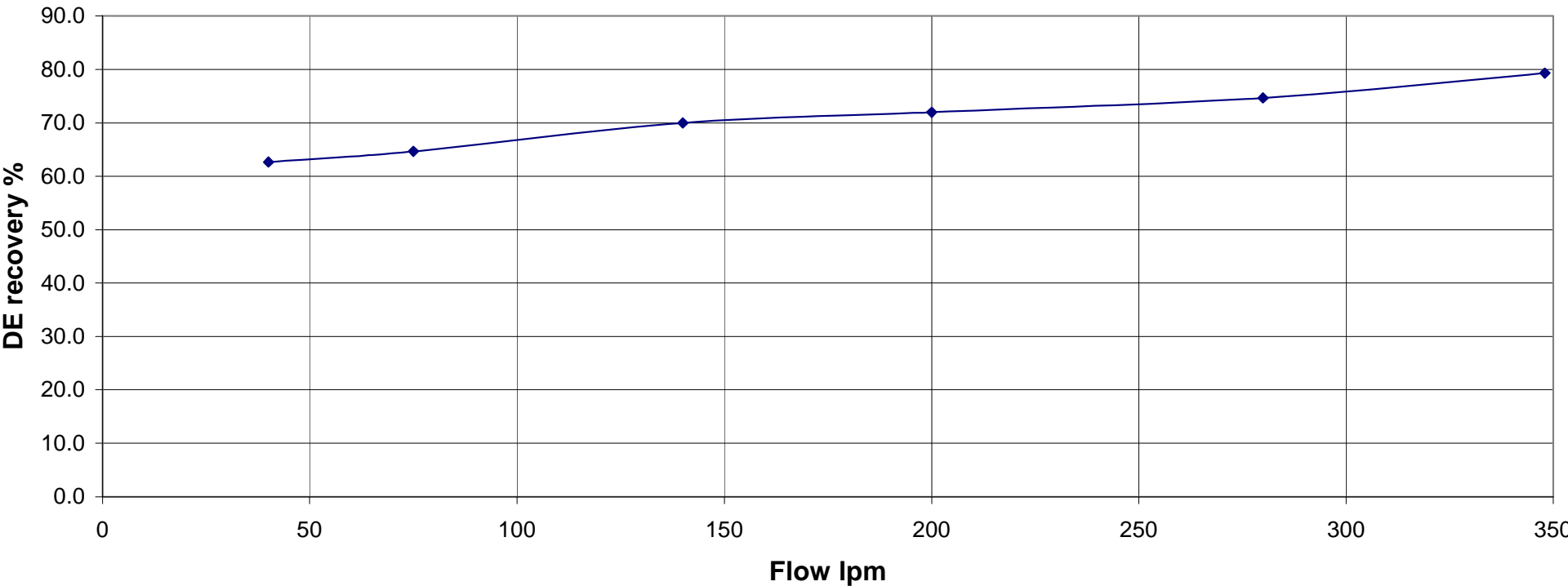


MultiCyclone + Cartridge filter =

Reduction in cleaning frequency + Extends the life of the filter cartridge

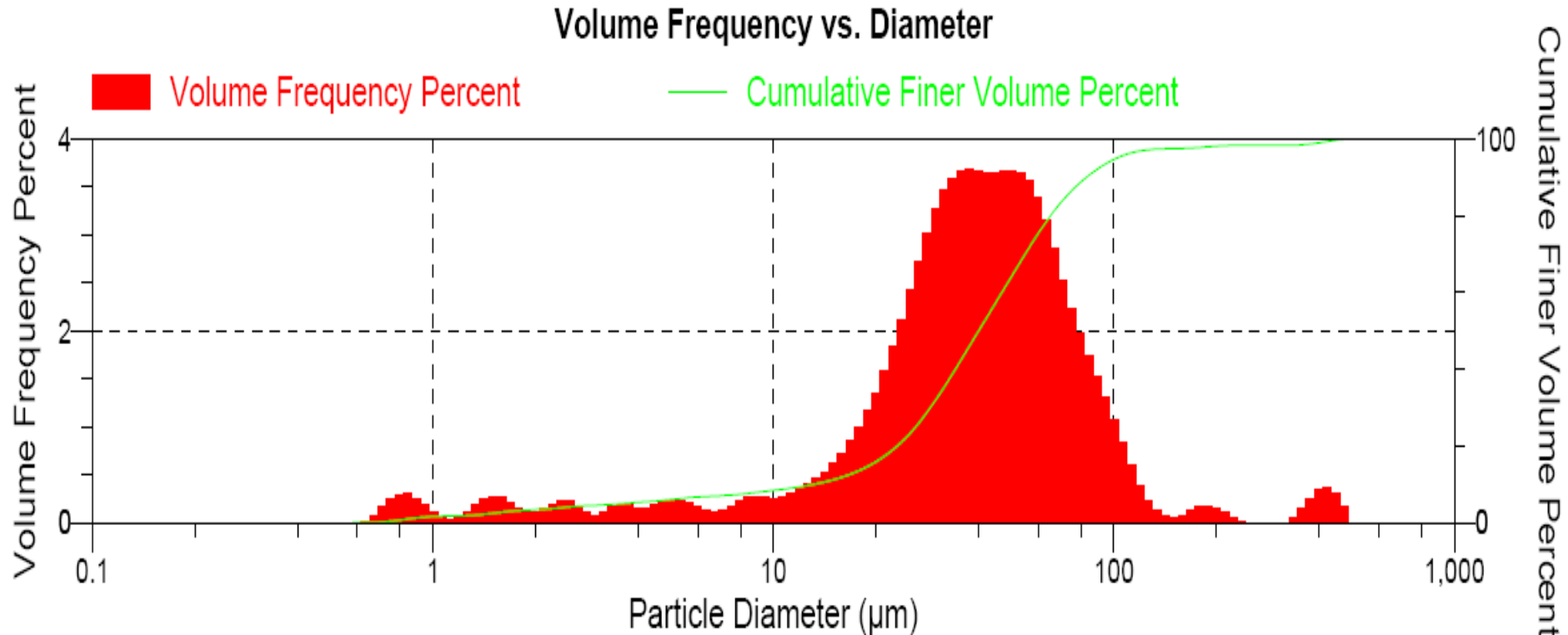
# DE Powder tests

- DE powder was passed through the Multi Cyclone to discover its effective flow rate.
- At 50 litres a minute, the MultiCyclone was able to remove approximately 60% of DE powder and at 350 litres a minute, the MultiCyclone was able to remove 80% of DE powder.



# Flush Out Particle Analysis

- The MultiCyclone was field tested on an outdoor swimming pool and the contents of the its sediment bowl was laboratory tested to discover the particle sizes it was capable of trapping.
- The laboratory test below revealed that the MultiCyclone was capable of trapping sediment between 10 to 100 microns





# Filtration Efficiency

- The filtration efficiency of the MultiCyclone was tested by feeding 5 to 80 micron dust particles through the MultiCyclone and analyzing the percentage of dust particles trapped in the sediment bowl.
- The laboratory test revealed that the Multi Cyclone was effective in filtering particles sized 40 to 80 microns.

Micron Rating	Particle Size 11.6 NTU Influent	Particle Size 10.2 NTU Effluent	Average % Of Particles trapped
5.0 – 80.0	24141	16824	30.31%
5.0 – 20.0	23608	16561	29.85%
20.0 – 40.0	509.20	260.13	48.91%
40.0 – 60.0	22.000	2.861	86.97%
60.0 – 80.0	2.333	0.000	100.00%

# Head Loss Curves

