

Cubic Water



Cubic Water is a company specializing in the manufacturing of water cleaning and purification equipment. We manufacture a range of products for the irrigation, municipal and industrial sectors.

All products are manufactured to the highest standards in Nelspruit, South Africa.

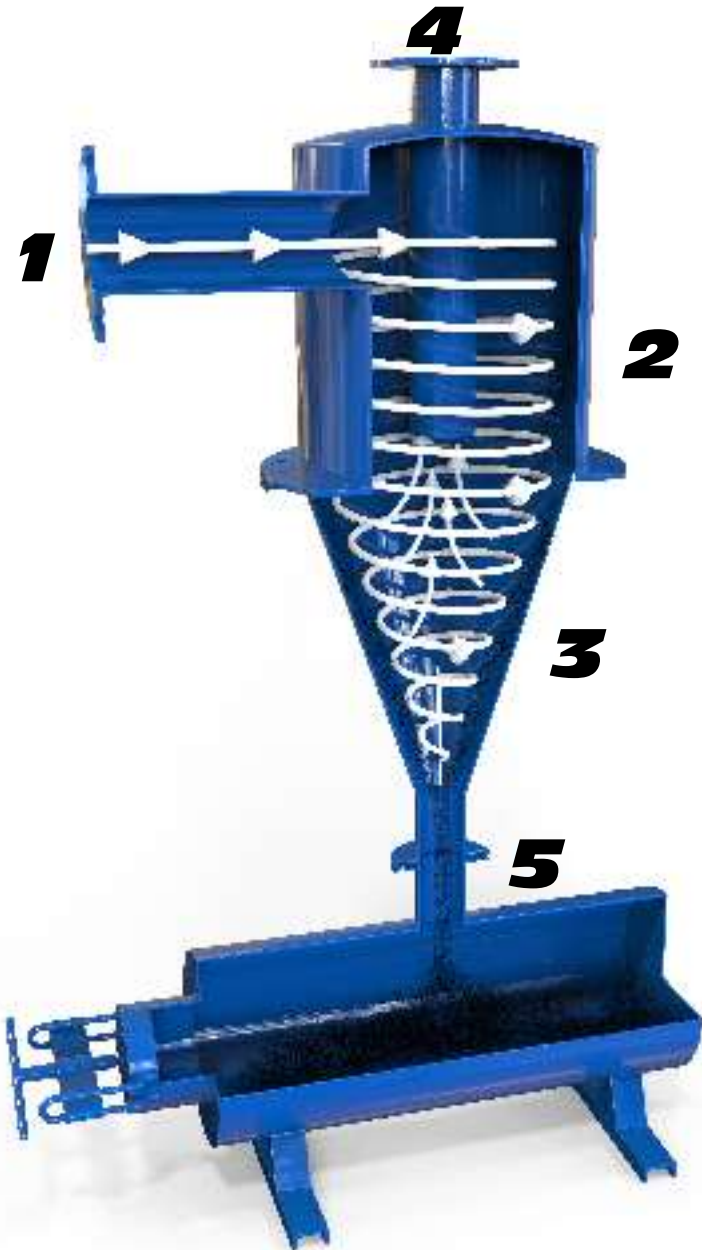
Cubic Water

Operation of the ***Cubic Sand Separator*** (CSS):

A Sand Separator or Hydro Cyclone is designed as a free flow filter to remove the heavy (Sand / Chrome) particles by centrifugal forces.

Raw water is pumped into the filter through the Inlet (1). The heavy particles (Sand, Chrome & Heavy Waste) becomes separated from the water and adheres to the walls of the filter in the Inlet Chamber (2) and Cyclone (3).

It then gravitates downwards to be collected in an underflow chamber (5), while the filtered water rises to emerge from the Outlet (4) of the filter.



Cubic Water

Test Results:

- A water sample of 25 litres was filtered through a scale model and 200 grams of solids was recovered.
- This is equal to 400 kg per hour for a flow of 50 m³/h.

Proposal:

- The proposed Cyclone is a CSS3 for a flow rate of 55 m³/h.
- The pressure drop over the Cyclone will be 7 meters (0.7 Bar).
- The Cyclone will have a continuous under flow that will be regulated by hand.
- There will be a site gauge to see the rate of heavy material accumulation (as per drawing on right).
- The support (legs) need to be finalized.

