

Sump Sediment Removing Machine

Application

Sediment deposition cleaning in industrial applications, town water supply, fire water or large water storage tanks.

Product Description

In industries we have large water storages such as cooling tower, fire water storage, process water storage. Similarly in town, we have water supply tanks. These large water storage facilities are having sediments deposition because of settling of suspended impurities. Now days it is very difficult to empty out and clean it frequently. Also day-by-day water quality is deteriorating which increases more trouble in such tank management. This product facilitates us to clean such large water reservoirs in continuous process of usage, without wastage of water or with minimum possible water wastage and with better safe option.



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Features

1. Works in water filled tank or sump.
2. Tank or sump usage continuity during sediment cleaning process.
3. Reduces water wastage and no shut down needed
4. Sediment removal without entry inside tank or sump.
5. Pneumatic lifting facility in water
6. Only mechanical cleaning process without harmful chemicals.
7. Continuous operation possible with operator.
8. Very low power consumption (About 2 KW)
9. Compact and light weight design
10. Machine suitable for cleaning any size of tank up to 1 to 5 Meter depth of water
11. Power supply option available Single phase or three phase.
12. Compact trolley mounted filtration unit for easy movement. (optionally)
13. LED light for monitoring movement of machine in submerge condition.

Technical Specification

This product is having basic four components for its functioning as follows.

1. Submerge Pumping Unit with cable bunch
2. Discharge hose pipe
3. Filtration system
4. Power supply and control panel



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1 Submerge Pumping Unit

1. Power Supply: - 230 V AC 50 Hz single or 440 V three phase (Optionally)
2. Power Consumption: - 2 Kw Maximum
3. Working depth :- 1 to 5 meters
4. Working Temperatures :- 35 Deg. Centigrade
5. Pump Rating :- 750 Watts
6. Pump protection :- IP 68
7. Pump winding :- Class F
8. Pump speed :- 2900 RPM
9. Pump Flow Rate :- 4 to 16 Cu.M per hours as per head difference.
10. Pump Head :- Maximum 10 M
11. Waste Outlet hose pipe :- 40 NB
12. Hose pipe length & cable length :- 10 meters (optionally higher length available)
13. Overall size of unit :- 380 mm x 530 mm x 450 mm height (Basic Unit)
14. Approximate submerge unit weight :- 36 Kg.
15. Weight of hoses, cables and control panel:- 12 kg Approximate
16. Weight of filtration unit :- Not considered as it is tailor made to suit application's specific need.
17. Frame :- SS-304
18. Pump MOC :- SS-304, PP, Rubber....etc.



2 Filtration Unit (Basic filter system optionally)

Filtration unit consist of main three components along with standard accessories mounted on S-304 trolley on 150 mm wheels.

1. Hydro cyclone separator with drain valves
2. Disc Filter rating 200 microns size 40 / 50 NB with drain plug or valve
3. Cartridge filter with replaceable PP cartridge rating 1 micron
4. Optionally busting pump with fine filter for special application only if specified in offer and product supply.

3 Power supply and Control panel

This will supply power to drive pump, light and movement of machine on floor with controlling movement. It consist of following major operation and controls.

1. Pump on off operation switch or push buttons.
2. LED light on off switch. track
3. Driving mechanism control push buttons for forward reverse movement and right or left turning.

Power supply unit Major components are follows.

1. Control power :- 230 V AC
2. Installation of control unit on filter trolley.
3. Equipment earth protection
4. Control panel IP 54 protection
5. All cables flexible with double insulation.



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Sedimclean™



Note :- Actual product may vary slightly from given images, packing or design as a part of our continuous improvement in product performance.

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