

FAQ

Sedimclean Sump sediment removing machine

Prayosha Innovative is introducing new conceptual tank's sediment cleaning machine which is best suitable for large tank applications. The basic aim for this machine manufacturing is to reduce manual labor for settled sediment removal. In addition, it helps to reduce water wastage.

It works on both applications.

1. As a standard product to remove sediment from tank base without empty out.
2. Also as a traditional practice, it will help to empty out tank with removal of sludge during pumping out water. Hence, it also reduces physical effort in traditional method of tank cleaning.

What is function of this machine?

To clean sediment from tank's flat base without empty out and with an option to re-use water after filtration.

What is weight of machine?

Machine's submerge unit that enters in tank is having weight less than 20 Kg. Control panel weights @ 6 kg. The hose pipes, cable bunch and filtration system weight extra.

Is this machine is robotic?

This machine is robotic. It works on electrical motorized movement by user to specific point from outside the tank.

Power supply rating?

230V AC Single phase x 50 Hz. Optionally available 3 phase 440V AC.

Is pump is flameproof?

No. Pump is water resistant with IP68 protection up to specified depth of water by pump manufacturer. But we have option to select another suitable brand based on specific application.

Can we use this product on flammable, petroleum or chemicals?

No. you cannot use this product in any explosive, flammable or volatile liquids. Consult manufacturer for further details. If you have any specific application, please write to us on info@sedimclean.com, we will revert to you with possible option.

Manufactured by :- PRAYOSHA INNOVATIVE

Websites :- www.prayoshainnovative.com, www.sedimclean.com

Mail :- info@sedimclean.com, info@prayoshainnovative.com

What is the maximum depth of tank cleaning?

It can clean tank from a depth of 300 mm to 5000 mm.

What is power cable length?

Power cable length is 10 meters. Extra cable length may be available optionally.

Special care for machine?

Following periodic care needs to take.

1. Clean pump suction point periodically.
2. Keep frame clean and inspect regularly.
3. Avoid impact of machine with wall or floor.
4. Check and clean wiper and brush regularly.
5. Check freeness of wheel periodically.
6. Check handles of pump are intake or not.
7. Check physical condition of cable.
8. Check hose pipes.
9. Keep filters cleaned and healthy.
10. Check and clean wheel brush periodically.

What operational care to take?

Following care needs to take.

1. Use specified power supply only.
2. Make sure that earthing wire is effective and safe to use.
3. Avoid pull of power & control cables.
4. Avoid impact of machine on floor or any hard surfaces.
5. Follow operational guidelines given in operational manual.
6. Avoid frequent pump start stop.

What spares need to keep for servicing?

Only filter & brush needed to keep as an emergency spares.

Can we alter pump make?

Yes, sure you may change pump model and make. However, before changing pump, verify clearly that new selected pump is suitable for given product configuration. Please consult manufacturer for further clarification.

How it works?

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Settled sediments at the bottom of tank are loosening by brushing due to machine movement on floor of tank. This forms a dense dusty cloud near to pump suction nozzle. The loosened sediments are sucked by pump through and discharged out through hose pipe. At the other end of hose, filtration system is provided which removes sediments and returns filtered water back to tank at other end.

Is this machine need to replace any component frequently?

No. Only filter assembly get choked after tank cleaning which may be cleaned for re use.

How much power it consumes?

It consumes about 1500 watts of electrical power.

How much time this machine will take to clean a tank?

It depends on quantity of sediment deposition at bottom of tank and tank size. Regular use of machine may take only few hours for tank's sediment deposition removal. For first time tank cleaning with heavy sediment deposition may take more time along with filter cleaning in between. This operation may be divided in more than one days.

What is life of machine?

This machine made from different kinds of stainless steel, plastics & rubber components. Hence, proposed life is 5 to 10 years if machine operated & stored as per operational manual instruction. Pump may need service depends on its operational environment and recommendation by manufacturer for its service.

Machine service provider location? Where spare parts will be available?

Visit www.sedimclean.com to locate your nearest dealer or service centre. You may mail to info@sedimclean.com.

How to know chock-up in filter during tank cleaning work?

If flow at outlet reduced, please open the unfiltered water drain cock in different filters. It will drain out heavy sludge water. If steel flow do not improve, stop the machine and clean all the filters.

What is flow rating of pump during tank cleaning work?

This depends on outlet height and condition of filters, but on an average, the capacity of pump unit is about 4000 to 9000 litres per hour for water.

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Is this machine removes floating impurities?

This machine will remove impurities only settled at the tank bottom.

If our tank is having impurities deposited on vertical walls, how to clean it?

No. This machine moves on horizontal floor and collects sediment from floor only. You need to clean floor first of all. Take a long handled brush. Clean the walls manually. Add alum and give few hours to settle sediments. Use this machine again for cleaning floor surfaces.

How much water will be wasted after cleaning of water tank?

If high sediment content water drain out completely, it will waste 15 to 30 % of water based on sediment quantity content.

How and where to dispose collected sediments & impurities?

We may use for watering small pots or plants if sediment is acceptable to it. Other sediments such as salt, sand, droppings....etc. given to suitable wastage disposal point. Do not drain it in domestic drain to prevent drainage chock up.

Is any demonstration available for operation & service of this machine?

Please visit www.sedimclean.com/video for video & other details. You may also visit your nearest dealer with prior request confirmation for required demonstration.

Is this machine is suitable for cleaning of sediments in chemicals / solvents?

The “Sedimclean” sump sediment cleaning machine is suitable for cleaning of large sumps in industries, corporation, cooling towers, fire water tank..etc. For any other non specified application, please contact info@sedimclean.com or info@prayoshainnovative.com with specific application details, machine may be developed or offered from available / suitable models.

What is the operational cost of this machine?

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The operational cost for machine is @ Rs. 12 to 16 per hour for electricity consumption based on rate of electricity @ Rs. 7 per unit (Kw).

Can we clean water tank which is having manhole at side?

Yes, it can clean it, but it requires sufficient space for movement and control movement from outside hence it should be easy to view. If tank is having too much columns, it will be difficult to operate machine efficiently.

This machine is suitable to clean turbid tank's water?

No. This machine will clear only bottom settled sediments. This machine will not remove turbidity from water.

What is application limitation for sump sediment cleaning machine?

- Cannot work in complete empty tank condition.
- If sediment is having sticky nature, machine movement may be difficult.
- Cannot remove deposition size more than 10 mm in diameter in basic model.
- Cannot remove civil debris from tank's bottom.
- Basic model is not suitable for any chemical, petrochemical or acidic water application.

How to store this machine after completion of work?

- Drain out water content from machine and filters.
- Clean filters. Roll power cable and hose pipe.
- Clean pump's suction port.
- Keep all components together to avoid loss of any component.

How long we may keep this machine idle?

We recommend operating this machine once in a month in regular days. If actual use is not possible, operate machine little on floor to keep all moving components in health condition.

Where to purchase?

Please visit www.sedimclean.com to locate your nearest or convenient product sales point.

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