

User Information and Warranty for the *CleanStream* Wastewater Treatment System

System No: _____

Installed on: ____ / ____ / ____

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Distributor and Service Technician

1 Design

1.1 Volume

The **CleanStream** Wastewater Treatment System has been designed and tested to work on an average of 1,200 litres per day of wastewater. This averages out at six people contributing 200 litres per person per day. This loading is spread over the day.

1.2 Lid

The top of the tank has a polyethylene lid that is used for easy access into the system. **This lid is not designed to be jumped on or driven over.** This will be slightly above the surface of the surrounding soil to stop water intrusion.

1.3 Electrical Cover

The rectangular plastic box houses the blower and all the electrical fittings. This base is 70 mm above finished ground level. Please make sure you do not build the soil up or flooding may occur and damage the electrical fittings and blower. It must not be jumped on. If it is broken or holed, please call the service technician who will need to replace it.

2. Alarm

2.1 Alarm Types

Installed with the system is a high level alarm for the pump chamber and an air pressure switch to monitor the Blower.

2.2 Alarm Notification

If the alarm does activate, press the mute button on the alarm panel to silence the buzzer. The light will stay on. ***Please note which light is on.*** Advising the service technician of this will enable them to diagnose the fault and be more efficient in its repair.

2.3 Who to Call

Call the Service Technician or Local Distributor as soon as possible - but at least within 24 hours.

2.4 What to Do

Until repairs are made limit the amount of wastewater going to the system.

3. Maintenance

3.1 Types of Filters

The system is fitted with one filter inside the tank and one on the pump line. The internal system filter should not need cleaning between service calls. This is dependent on the volume of solids deposited in the tank. On the pump line is an Arkal filter with 130 micron discs. This is to protect the irrigation field.

3.2 Cleaning Filters

The **user is responsible** for checking all of the filters between servicing. We suggest monthly inspection and cleaning only if necessary. After a short time an idea of the quantity of build up will be apparent. We recommend that even if the filters are staying clean that a three monthly inspection should be completed. This will be twice a year between the six monthly services. This should be done to ensure effluent flows through the system and is discharged to the irrigation field without restriction.

To clean the internal system filters simply unscrew the plastic cap, draw the filter out by its handle and wash with a hose. (Refer Diagram 2).

Protective clothing, gloves and eye protection should be worn at all times during these cleanings.

Alternatively, for a small fee, our Service Technicians can clean the filter for you. Please contact us to arrange.

Diagram 1

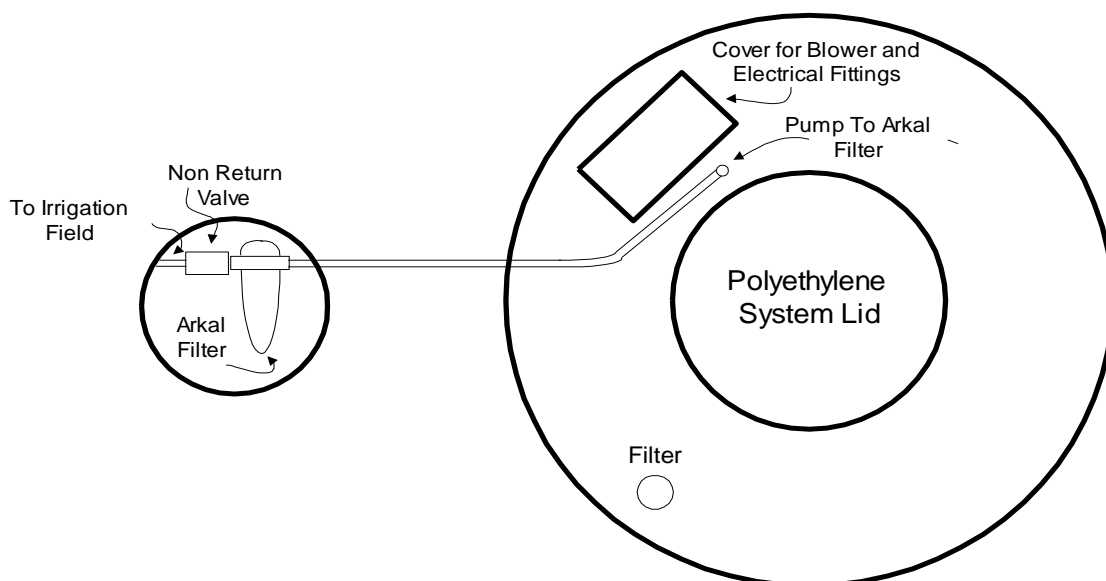
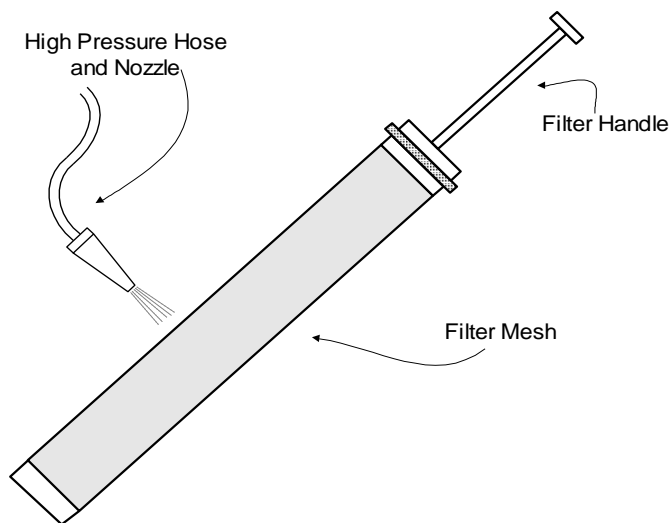


Diagram 2

The Arkal filter cleans with a spinning action using a high pressure nozzle on a household hose.

To clean the filter, follow these basic steps. **Protective clothing, gloves and eye protection should be worn at all times during these cleanings.**

- i) Turn the power off to the system. This stops the pump operating when the filter is open.
- ii) Remove excess pressure from the system.
- iii) Disassemble the filter by first loosening the locking ring with the plastic wrench provided.
- iv) Remove the bottom portion of the plastic housing exposing the spine on which the discs are stacked. With the cover removed the discs will automatically come free so you can either hose the discs in place by aiming a hose with clean water under pressure at the discs causing these to “spin”. This action cleans the discs. The spine is removable, so the discs may be removed if it is more convenient to clean the discs elsewhere.
- v) Install the spine (if removed).
- vi) Replace the cover and locking ring.
- vii) Tighten ring.
- viii) Turn power back on.

3.3 Maintenance Servicing

An approved **CleanStream** service technician will conduct the two service visits per year. It is important the system is serviced regularly to ensure efficient performance. After each service you will be given a copy of the service report.

4. Desludging

4.1 Sludge

Aerated treatment systems generally require less desludging than standard septic tanks. Remember this is dependent on loadings. For example, the use of garbage disposal units will increase the load and may necessitate more frequent desludging.

The service technician on the six monthly service will advise you if it is necessary to desludge. Any desludging required is at the owner's expense.

5. Noise

5.1 Blower

The system uses a Yasanaga 100 Air Blower. These blowers are virtually silent and they go continually. If you hear any unusual noise, please call your service technician.

6. Odours

6.1 Venting

Remember it is a natural process using bacteria to digest the organic material in your wastewater. The air pumped into the system exits through the terminal vent on the house. This vent is usually the highest point on the house and any odour is generally dispersed very quickly. If any offensive odours occur an alternative venting system can be installed at a small cost.

6.2 Shock Loading

If you go away for a period of time the system gets shock loaded on your return. This is because the bacteria population needs to build up to cope with the increased loadings. This can result in some odours. Likewise if the loading is increased significantly for a short period, such things as large numbers of visitors, the bacteria population increases. Bacteria balance themselves with their food source.

6.3 Bacteria

Please treat the system as a living entity with lots of different bacteria working for you.

7. Important Daily Use Issues

7.1 Do Nots

- Drive over it.*
- Use substances that will kill the bacteria. Such things as strong detergent, disinfectant, bleach or Napisan. We recommend using a liquid laundry detergent, do not use powder.
- Flush sanitary pads, nappies or condoms into the system. Flushing tampons or their packaging into the system should also be avoided because they may cause blockages.
- Turn the power off to the system.
- Damage the irrigation line in any way.

7.2 Some Dos'

- Call the service technician within 24 hours if the alarm is activated.
- Reduce the amount of waste water entering the system if an alarm is activated.
- Call the service technician if the irrigation line or any other part of the system is damaged in any way.
- Maintain and prevent intrusion of insects, plants and tree roots into the system.

8. Warranty

All effluent treatment systems produced by Duracrete have been inspected and tested before leaving the factory.

The standard pumps used with the system have a **2 year manufacturers warranty** from date of commission. Higher specification pumps have a one year manufacturers warranty.

All Davey pumps have a thermal sticker on the body of the pump which turns black when pump overheats from working too hard to push water through blocked filters. The Manufacturers warranty does not cover pumps with black stickers (burnt out pump).

All other electrical componentry have manufacturers' warranties of one year.

The concrete tanks are warranted by the manufacturer for a period of five (5) years from the time they leave the factory. During this period any defect which is attributed to the manufacturer will be repaired or replaced free of charge at Duracrete's option.

This warranty does not cover damage caused by the following;

- misuse of the tank
- neglect
- failure to keep the unit clean and functional
- accidental damage
- vandalism
- use of incorrect power supply
- fluctuations in the power supply
- earthquakes, fire, flood, storm, lightening, land slip or other acts of nature
- persons unauthorised by Wastewater Solutions Limited interfering with the system in any way
- customer/owner/occupier failure to advise of any warning or other malfunction within 24 hours of the malfunction occurring

Please note - the system is not designed to be driven over by vehicles.

9. Commissioning

9.1 When to Use

The **CleanStream** Treatment system should not be used in any way until the system has been commissioned. This includes contractors during the construction of the house and owners wishing to take up residency.

*Thank you for buying a **CleanStream** Wastewater Treatment System. Please contact your local distributor or service technician if you have any questions.*