



**Operating manual for Zero Discharge 2,
Stand Alone toilet**

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The NatSol No-Flush Toilet System

General description

The NatSol No-Flush public toilet system allows solids and urine to mix. All waste enters the tank and there is no drain or soakaway installed.

Odour is typically controlled by a passive ventilation duct and extraction cowl. The ventilation system creates a negative pressure in the tank and draws air down the pedestal.

The urinal does not have a trap as it is vented in the same way as the toilet pedestal via the connecting pipe-work.

Hand cleansing

We supply alcohol gel dispensers for hand cleansing and advise against the installation of hand basins due to freezing and flooding risk.

Daily cleaning and management

1. Clean the inside of the pedestal using a pump up sprayer with water and disinfectant and a suitable brush. Do not use metal scrapers, wire brushes or any abrasives on the inside as these will damage the Teflon coating.
2. Clean the outside and top of the pedestals using an appropriate non-abrasive cleaning solution e.g. a multi surface cleaner.
3. Clean the urinal with a soapy water spray and brush. Once a week flush the urinal with 2 litres of water and a little soap to keep the pipe clear.
4. If flies or abnormal odours are present in cubicles notify the manager who will check the **Troubleshooting** section at the end of this manual.

Six monthly checks

1. Check that the cowl on the vent pipe can turn freely. It will need greasing once a year. You will need to turn the retaining catch aside and remove the upper half. Make sure the retaining catch is tightened again afterwards.

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Tank emptying

1. Use the laser measurer (supplied) and NatSol guide to assess when the tank needs to be emptied.
2. Ensure public are kept away from the toilet during emptying.
3. Remove the pedestal using the security bolt driver.
4. The tanker driver must focus first on removing the solids in the tank.
5. When the tank is empty clean the floor with disinfectant and refit the pedestal.

Record keeping

1. Record dates of tanker visits and approximate volume removed.
2. Record and report any problems with odours and/or flies.

Troubleshooting

a) Flies

Flies have not been a problem with this system. However, should they arise then have the tank pumped out. Rinse down inside surfaces of pedestal. In the event of a low level outbreak use fly spray down the pedestal every day for a week.

b) Smells

- a. On passively vented toilets check that the directional cowl has not jammed and that it is not overhung by tree branches. Make sure it has been greased regularly.
- b. Identify whether the smell is actually coming from the toilet pedestal or is the smell coming from the urinal and if so is it from the bowl or the floor?
- c. Check whether the odour is actually from the NatSol system or is it coming from a neighbouring sewage treatment plant or muck spreading operation on farmland?

If the problem cannot be resolved, please contact NatSol with the following information:

- Weather conditions that influence the smell, e.g. strong wind.
- Approximate tank waste levels