

## The COMPUS TWIN TOILET brochure

A highly reliable and affordable toilet system

No **Water**   No **Power**   No **Smells**   No **Fuss**   No **Chemicals**  
No **Unreliable Evaporation**   No **Sewage Connections**



Complete composting toilet systems with or without buildings for:

**Campsites** - **Allotments** - **Nature reserves** - **Private Gardens**  
**Golf Courses** - **Churches** - **Remote work sites** - **Public Parks**

We supply to **disabled** and non-disabled access specifications and have two standard building options available.

### How it works

Some manufacturers rely on evaporation of urine. We consider this unreliable in the British climate. Our toilets were designed for the colder, damper climatic conditions of Britain and northern Europe. They are manufactured in Britain. Unlike many wet systems the composting process is aerobic and does not produce significant amounts of ammonia – the smelly bit!

**So we manufacture ventilated toilets with urine separation that do not rely on evaporation.**

We also batch process solid wastes by having a twin chamber. This is a biologically safe approach and makes compost removal easy. Most other manufacturers do not do this.

**We use two vaults for better composting.**

## Our buildings

Our buildings are designed to blend in with the existing buildings normally found on allotments, parks; and other open spaces in Britain. They are traditionally constructed in Wales, using whenever possible, locally sourced materials. Our range of models and components can satisfy the requirements of most sites, environments and users.



Allotment toilet in Nottingham



Allotment toilet in Manchester



Components kit installed in a new Church extension in North Wales

## The technical section

For the COMPUS TWIN FULL ACCESS we normally supply either a timber or metal building to go with the toilet, but some customers prefer to build their own and it is sometimes possible to install our standard vaults in existing structures or in buildings designed to your specifications. An example of this is shown above in the right hand picture.

Our quoted price includes the support you may need to obtain statutory permissions, installation guidance and operating instructions. We do not actually carry out installation so the price does not include the actual installation cost. Neither does it cover any local authority statutory fees. In most cases formal planning consent and building control approval are not required but it is your responsibility to check.

Should your site not be suitable for disabled users, we offer a smaller version of the full access model called the COMPUS TWIN REMOTE. This toilet is essentially the same as the full access version and has the same building choices available, but has a shorter cubicle. If you do not require disabled specification now; but may do in the future the full access model can be supplied without the disabled components; please see our price list for details. With this option, you would still be able to upgrade to a full disabled wheelchair compliant toilet at a later date if required. However, it is not possible to upgrade the remote model to wheelchair specification

### Internal layout for the full access version

Below are pictures inside the cubicle of a wheelchair accessible compost toilet at an allotment site in Shrewsbury. The male urinal, grab rails, and hand disinfectant dispensers and "soak" box for wood shavings are visible. There is a passive ventilation system. There are two pedestal positions, one for each vault. The front two hatches are for emptying finished compost.



## Typical excavations



Excavation for vaults and GRC soakaway unit. The vault excavation for the FULL ACCESS version is 2m wide by 2.5m front to back by 850mm deep. For the REMOTE it is 2m square by 850mm.

## Vaults, pedestal and other components without a building



We can offer components for the COMPUS TWIN Full Access toilet for those who wish to build their own shed or to install the toilet in a new build project with other functions.

In addition to the GRC vaults shown above and the pedestal shown below we normally supply the ventilation duct and cowl, a soakaway unit, a male urinal and pipe work, grab rails, “soak” box and hand disinfectant dispensers. We also assist with building design to ensure the project is successful.

Typical costs for the above package are £3,650.00 + VAT + delivery and installation.

## The NatSol standard pedestal



The pedestal is designed to work with our urine separation system and to minimise cleaning. It doesn't look like a WC because it is not designed to be flushed. Form follows function! This pedestal is also available in white.

### Notes

1. For all toilet systems it is vital that we are involved with the design or adaptation of any buildings involved. This is to ensure that the toilet can be installed, function correctly and that any disabled access requirements can be complied with. Structural specifications supplied by ourselves must be closely adhered to.
2. The COMPUS TWIN FULL ACCESS and REMOTE toilets:-
  - a. We always supply a waterless air flush male urinal with these toilets unless we are specifically requested not to. This is because the urine separating system in the pedestal is only effective for seated users and therefore, without a urinal, males must sit to urinate. Failure to do so will cause urine to enter the composting chamber.
  - b. The toilets are supplied with a gel based waterless hand disinfectant system. This overcomes the requirement to have water piped to the cubicle and removes the risk of freezing and the need to drain down in winter.

Because no hand basin is fitted there is more room for wheelchair manoeuvring within the cubicle. Fitting a waterless system reduces install cost and the routine maintenance requirements of the toilet after installation. It also eliminates the need for a soakaway large enough to cope with grey water from hand washing.



- c. The twin vault system ensures safe batch composting of the wastes. The resting vault should be left untouched for at least one year before compost removal. At this stage the material should, under normal operating conditions, be pathogen free. Each toilet unit can handle a loading of 8 people on a 24 hour, 365 day occupancy basis. For

daytime use only average loading can be around 50 uses per day. Much higher, intermittent peak loadings are possible. Our toilet vaults are vented and under normal operating conditions all smells are removed via the 160mm passive vent pipe. With correct management our COMPUS TWIN toilets should smell less than a WC.



The NatSol GRC Twin Composting toilet Vault

- d. Customers are responsible for arranging installation of the toilets by a local building or groundwork contractor as required. However, **NatSol** supplies installation guidance and offers free telephone support to customers during installation by arrangement. We also like to discuss installation with your contractor beforehand. From our experience installation of the twin vault unit and building takes about 1.5 days and requires 2 or 3 people plus the machine operator on the first day, and 1 or 2 people on the second day. An experienced team can install complete in one day. Machinery is required for at least the first half of day one for excavation and to lower the vaults into position. A safe working load of 650kg is required. You would require a safe working load of 850kg to offload the complete vault unit from the delivery lorry unless the lid is removed first as a separate item. Sand & cement, aggregate and any additional drainage pipe for the urine soakaway will normally cost not more than about £150.
- e. Under our terms and conditions of trade **NatSol** will undertake to deliver goods to the nearest point to the proposed site accessible by road vehicle.



Delivery to site of the main components for a single toilet order.

- f. Our current delivery time for complete units with a building is four to six weeks from completion of the contract. For component only orders we are currently able to complete within two weeks. All prices quoted are exclusive of VAT.
- g. We can arrange for a member of our staff to supervise installation and the typical cost for this service is £500 plus expenses. However, it is not normally necessary.
- h. Please note; we do not supply an alarm system for our wheelchair accessible toilets

#### FULL ACCESS model and VAT

If you are considering ordering a full access unit and you have charitable status or a gift aid number, or if at least 20% of the potential regular users are registered as disabled [any disability, not just wheelchair dependent] you may be able to apply for VAT exemption. If you think you fall within this criteria we suggest you contact the HM Revenues & Customs Charity Helpline on 0845 3020203. Choose option 3, you will require leaflet 701/7. We require a completed certificate 10.2 before we can supply goods at zero rate.

## Maintenance requirements of a COMPUS TWIN toilet:

This is a very easy toilet to maintain. The times and costs below assume that use is often enough for a vault to need emptying once a year. This would be between 50 and 100 daytime uses each day.

- **Cleaning time** - probably lower than for a WC + the urinal
- **Replacing toilet paper, emptying rubbish bins** – same as a WC
- **Topping up soak** - dependant on use. A bale of wood shavings might cost around £5 and would fill the bin several times depending on compaction.
- **Vault emptying** - allow one person half a day a year or two people three hours.
- **Other** - certain necessary checks on function, probably another day IN TOTAL each year, e.g. half an hour every few weeks.

For full details please see the user guide on our web site at [www.natsol.co.uk/manage.html](http://www.natsol.co.uk/manage.html)

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## Company History and Policy

Based in Llanidloes, Mid Wales, NatSol Ltd was started by Andrew Warren and Nick Grant in 2005 following many years combined experience of designing and installing composting toilets. Both have long established links with The Centre for Alternative Technology in Wales which has examples of their work.

Our products make a significant contribution to water conservation and pollution reduction and usually require a smaller input of material resources to manufacture and install than other solutions for the same site.

We guarantee not to sell you a product unless we believe that it is the best solution in environmental terms for your situation based on the information we receive from you.

NatSol banks with the Co-operative bank; is a member of The Association for Environment Conscious Building and has a Green Dragon Environmental Standard.



Everyone's happy, the toilet's in and ready to use