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**UNIQUE PRODUCT**



**TankFresh**



Good bacteria help:

## An odourless wastewater system is now possible!

TankFresh is a concentrate of completely organic bacteria that break down faeces in the wastewater system without emitting any odour. Unlike other (chemical) products that often mask the smell, TankFresh influences the natural bacteria level in the tank over a long period of time. Developers at VETUS have shown through extensive testing, that a well-designed wastewater system using TankFresh can function virtually without odour.

- **Powerful concentrate in a convenient 500 ml dosage bottle**
- **One bottle is sufficient to banish odours for an entire boating season**
- **Completely organic, so only nature's own ingredients**
- **Proven reduction of odours in the tank**

### Includes a guide to an odourless wastewater system!

Many myths about odour prevention in the wastewater system circulate on the pontoon and on the Internet. Frequently, the components of the system are blamed as the source and solutions that have an adverse effect on the cause of the smell are proposed. However, to get all the facts straight, the developers at VETUS have prepared a guide with tips to keep your waste water system free of odours.

**If you follow this guide, we guarantee an odourless wastewater system!**

**CREATORS OF  
BOAT SYSTEMS**

# A GUIDE TO AN ODOURLESS WASTEWATER SYSTEM!

## Hoses

Hoses are often blamed as the source of odours. However, this does not have to be the case if VETUS sanitary hoses are properly installed and used.

When improperly installed, foul water can be trapped and damage the hose. **Always install the hoses with a fall of at least 5 cm per metre and without any dips that can hold water. Flush the hoses thoroughly with sufficient water every time the toilet is used.** You can test the condition of the hose by smelling a warm damp cloth that has been rubbed over the hose.

## Flushing

To flush the hoses sufficiently, VETUS offers a solution that includes the TMW toilet. This toilet has a powerful macerator pump that ensures all waste is pumped through the hoses at high pressure. As a result, the hoses remain free of obstructions. Thanks to the efficient macerator and high output pressure, it is possible to use smaller hose diameters so that less water is needed to flush the hoses.

**You can calculate how much water you need for the entire hose to be flushed through.** For example, a hose with an internal diameter of 19 mm and length of 4 m:  $\pi \times ((19/100)/2)^2 \times (4 \times 10) = 1.1$  litres.

The new TMW control panel offers the choice of a standard 1.2 litre flush or a long 2.2 litre flush - to provide an extra rinse.

## Holding tank

There are many types of holding tanks available on the market. VETUS holding tanks are specifically designed for wastewater systems. The thick walls of these linear polyethylene tanks make them completely odour proof. The hose connection kits and fittings with watertight seals ensure that no leaks can occur.

The level in the tank is visible from the outside and the WWS tank is even equipped with an ultrasonic level sensor, which can be connected to the VETUS tank management system. **Empty the wastewater tank on time and rinse the tank regularly.** This prevents the formation of a hard sediment layer on the bottom of the tank.

## Ventilation

**Proper ventilation is the main requirement for an odourless system.** Anaerobic bacteria cause the odour in the tank. These bacteria thrive without oxygen and in a poorly or unventilated tank, anaerobic decay processes occur unchecked. The counterpart of these anaerobic bacteria are aerobic bacteria. These bacteria also process waste but do this without emitting odours! Aerobic bacteria use fresh air and oxygen to survive, so to give these beneficial bacteria the upper hand, it is important that the tank is well ventilated.

Use large diameter fittings and hoses supplied by VETUS for ventilation. Optionally, you can install a No-Smell filter in the ventilation hose.

Make sure that the ventilation hoses are not clogged, empty the holding tank on time, and check the hoses regularly.

**If you really want to get it right, then there should be two ventilation hoses - one on either side of the boat to facilitate a natural airflow.** It sounds contradictory, but the more ventilation, the fewer odours!

## TankFresh

TankFresh is a concentrate of the beneficial, aerobic bacteria. By adding TankFresh via the toilet, the bacterial balance in the tank will change in favour of these good bacteria. **In combination with good ventilation, this is the final blow for the odour-producing bacteria!**

Thanks to the high concentration of TankFresh, a bottle of 500ml is sufficient for an entire boating season.



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## The items discussed at a glance:

| Product code | Description   | Specifications                                       | Cat. Page |
|--------------|---|--|-----------|
| TFRESH05     | Dosage bottle of 'beneficial bacteria' to combat odours         | 500ml  | New       |
| TMW          | Comfortable electric toilet with powerful pump                  | Including control panel. Available for 12 or 24 Volt | 128       |
| SAHOSE       | Impermeable sanitary 'No-smell' hose                            | Diameters from 16 to 102 mm                          | 137       |
| NSF          | No-Smell filter for wastewater tank                             | For hose diameters from 16 to 38mm                   | 135       |
| WWS          | Waste water system including pump, connections and level sensor | From 42 to 120 litre, 12 or 24 Volt                  | 133       |
| SENSORD      | Tank management system  | Level indication and pump control for up to 4 tanks  | 93        |

Of course, you will also find all the other accessories such as hose clamps, skin fittings, ball valves, float sensors etc. in the VETUS catalogue. From page 124, all components of the wastewater system are shown in detail.

Check out and share this guide at [www.vetus.com](http://www.vetus.com)!

### About VETUS

Developing innovative systems for your boat is truly what VETUS is about. VETUS invents and develops systems consisting of a wide range of products to keep your boat in an excellent technical condition.

For almost 50 years, VETUS has been one of the world's leading companies when it comes to innovative products for pleasure craft and small commercial vessels.

### 3-year warranty, unique in the market!

All VETUS boat equipment products come with a 3-year warranty. Because of our long experience, careful choice of materials and stringent quality controls, we have the confidence to offer this warranty. For advice, installation and service you can always rely on our worldwide network of VETUS dealers.



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