



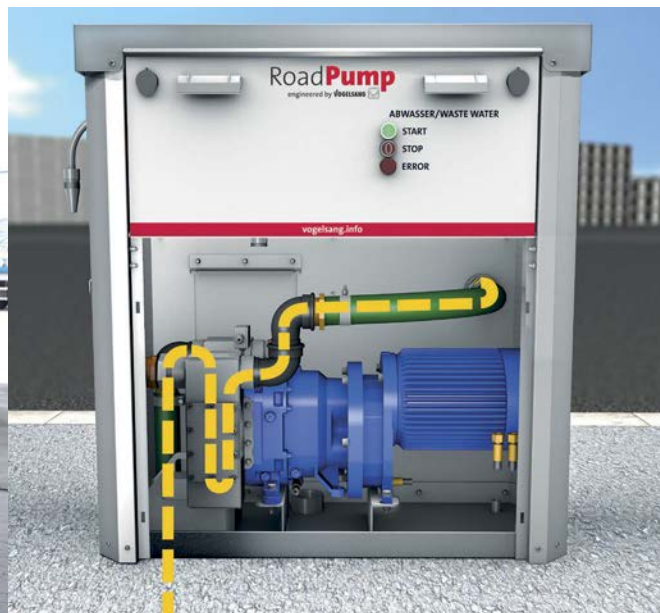
HYGIENIC, SAFE, CLEAN

RoadPump

engineered by **VOGELSANG** 

Clean solutions for wastewater disposal and fresh water supply from coaches





Simple and quick handling

Complete control of draining and cleaning

Mobile or stationary: triple solution expertise based on the tried-and-tested Vogelsang rotary lobe pump

Traveling on coaches is becoming more and more popular. With rising passenger numbers, one particular challenge is to dispose of wastewater from washrooms and toilets hygienically. To ensure that this disposal is controlled and does not take place under unhygienic conditions that are hazardous to health, Vogelsang has developed the RoadPump.

RoadPump

The RoadPump is an disposal and supply station for washroom and toilet wastewater, specifically designed for bus stations, bus depots or stopping places and rest stops. It uses various collecting devices and its built-in vacuum system to suction off wastewater, disposes of it safely and hygienically in the connected

sewer system or collection tank and supply at the same time with tap and drink water. The RoadPump's robust vacuum technology and the intelligent design of the collection facilities prevent contamination of the road.

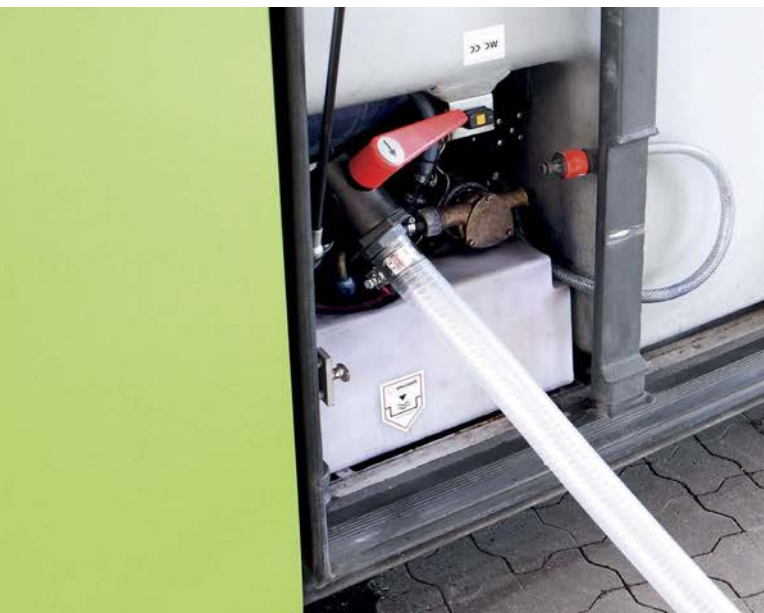
To ensure a high level of user acceptance, the RoadPump has a simple structure. It can be operated without difficulty by any bus driver or station employee.

At the heart of the RoadPump is the established rotary lobe pump technology. Vogelsang – the market leader in the field of toilet wastewater disposal in passenger train cars – has been using pumps in this design around the world for more than twenty years. They have an

outstandingly compact type of construction, are very easy to maintain, and are extremely resistant to foreign matter. Toilet paper, pieces of fabric and other contamination that is commonly present in wastewater do not impair the rotary lobe pump's operation.



Vogelsang rotary lobe pump of the VX series



BusPlug

CollectingMax

Vogelsang has designed several methods to dispose the waste water from buses with a RoadPump. Bus depots or stations from very different sizes, petrol stations or service areas; we have the perfect solution for you.

The RoadPump is a totally clean and odorless system, avoiding the contamination of the surfaces with feces or other foreign materials. The RoadPump is the easiest and the most environment friendly way to dispose the waste water from your bus and supply of fresh and drink water.

Collecting Systems

BusPlug, for the cleanest disposal of waste water from buses

The BusPlug was developed by Vogelsang to enable a clean, quick and comfortable suction of waste water in travel coaches. The BusPlug can be easily retrofitted and is connected to the RoadPump quickly and easily using a Kamlock coupling. Even larger contaminants such as lighters or paper towels can be extracted without problems and completely odor-free.

CollectingMax, mobile and ready to use for every bus

The CollectingMax consists of a large drip pan, which any employee or driver can quickly position under the outlet for toilet sewage on the bus. The system is easy to operate and fits all bus types perfectly. The drip pan is designed to enable a rapid outflow and prevent spray from toilet wastewater. The CollectingMax is an efficient solution for smaller bus stations or bus depots, and also for rest stops. It can be used without difficulty by untrained personnel.

CollectingStation, permanently installed station

The CollectingStation is sunk permanently into the ground, so that the bus is simply driven over the collection unit. With a special positioning system, the driver is able to position the bus correctly above the collection unit. Once the wastewater is disposed of, the CollectingStation is automatically flushed with water to remove odors and toilet paper residue.



Benefits of the BusPlug:

- Cleanest way to dispose the waste water from buses
- Easy to install and to retrofit
- Easy to dismantle for inspections on the tank
- Made from chemical resistant materials
- Prevents vacuum and damage in the waste water tank
- Tried and tested Kamlock coupling; successfully used on the railway sector



RoadPump Eco



RoadPump Plus

For each application we have the perfect RoadPump solution

Depending on the requirements of your installation, we deliver the perfect solution for you. If you have a small bus depot, a public area or a private business, or even a big petrol station on the highway; if your prevision is to use the RoadPump once per week or several times per hour; we always come up with the perfect equipment to fit your needs.

RoadPump Basic

The RoadPump Basic is a mobile cost-effective solution for small bus companies. It can be used together with the CollectingMax or with a BusPlug, if it is already installed on the bus.

RoadPump Eco

The RoadPump Eco is a cost-effective stationary system in a weatherproof housing, ideal for private bus companies. The waste water tanks can be emptied with the CollectingMax trolley or directly via the odorless suction connection BusPlug. In addition, there is the possibility to fill with tap water to

the tank or to flush it. The operation can be eas-ily carried by the bus driver. Optionally, coins or token system pay-per-use can be installed.

RoadPump Plus

The RoadPump Plus is a stationary system in a weatherproof housing, specially engineered for petrol stations, service areas, ferry ports or public areas such as bus stations. The waste water tanks can be emptied with the CollectingMax trolley or directly via the odorless BusPlug suction connection. All parts required for unplugging and supply are kept in the housing and are electromechanically locked, preventing vandalism and theft. The RoadPump Plus has a unique feature to offer: it has a drinking water filling facility, as well as a hygienic flushing system. It fulfills the requirements of drinking water quality according to the Railway Federation (EBA). The housing is heated, which prevents freezing of the individual components. The system can be

equipped with different payment solutions. This version can also be set up as a ghosting system without operator and supervisor. Design and operation are modeled on a petrol pump to simplify the installation in these facilities.

Advantages of the rotary lobe pump for toilet sewage:

- Hygienic and fast waste water disposal system
- Resistant to dry running
- Maximum tolerance of foreign matter
- Easy maintenance
- Easy handling & self-service
- Winter proof with an electric heating



Technical features

RoadPump specifications	RoadPump Basic	RoadPump Eco	RoadPump Plus
Rotary lobe pump	VX100-45Q	VX100-45Q	VX100-45Q
Max. capacity	180 l/min	180 l/min	180 l/min
Max. delivery height	8 mWC	8 mWC	8 mWC
Max. differential pressure	2 bar	2 bar	2 bar
Motor power	2.2 kW	2.2 kW	2.2 kW
Power supply	3 Ph x 230/400 Volt 50Hz	3 Ph x 230/400 Volt 50Hz	3 Ph x 230/400 Volt 50Hz
Cabinet & hose retainer	mobile unit	stainless steel 1.4301	stainless steel 1.4301
Suction hose for CollectingMax/BusPlug	5-15 m DN40 spiral hose	5-15 m DN40 spiral hose	4.5 m DN40 spiral hose self-retracting
Suction hose for suction lance	–	5-15 m DN40 spiral hose with 1" suction lance, incl. Ball valve	–
Tap water hose	–	10 m 1/2" hose on automatically retracting hose reel	7 m 1/2" hose on automatically retracting hose reel inclusive backflow preventer
Drink water hose	–	---	7 m 1/2" hose on automatically retracting hose reel and automatic hygienic flushing
Approx. dimensions HxWxL	–	970 x 400 x 1200 mm	1700 x 900 x 2000 mm
Approx. weight	–	290 kg	650 kg
Heating system	–	1x 250 W with thermostat	2x 250 W with thermostat



Project management: tailored disposal

Every bus station and every depot is different, e.g. when it comes to mobile solutions, payment and authorization systems, remote maintenance, weather resistance, unusual positioning or additional services such as a hygienic drinking water supply.

Our project management will find the perfect solution for you.

Find out more at
www.road-pump.com

Vogelsang is the market leader in waste-water disposal from passenger train cars. For more than twenty years, Vogelsang has supplied several customers worldwide with supply and disposal systems for toilets in railway carriages.

Hundreds of installed Vogelsang double pump stations and T-systems enable professional, vacuum-based disposal, and are used around the world by railway operators to ensure hygiene for passengers.

Find out more at www.vogelsang.info/int/markets/railway

How to reach us

Vogelsang is present worldwide. Visit us online for more information about our company and wide range of services:

vogelsang.info

We are here to assist you and look forward to speaking with you.

vogelsang.info

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Product availability, appearance, technical specifications and details are subject to continuous development. All information presented here is therefore subject to change.