

# TUNIT SP

Single-point station for  
supply and discharge

**VOGELSANG – LEADING IN TECHNOLOGY**

# TUnit SP

## Single-point station for supply and disposal

Vogelsang's TUnit SP is a service station that ensures hygienic disposal of wastewater, as well as the filling of water tanks in passenger trains.

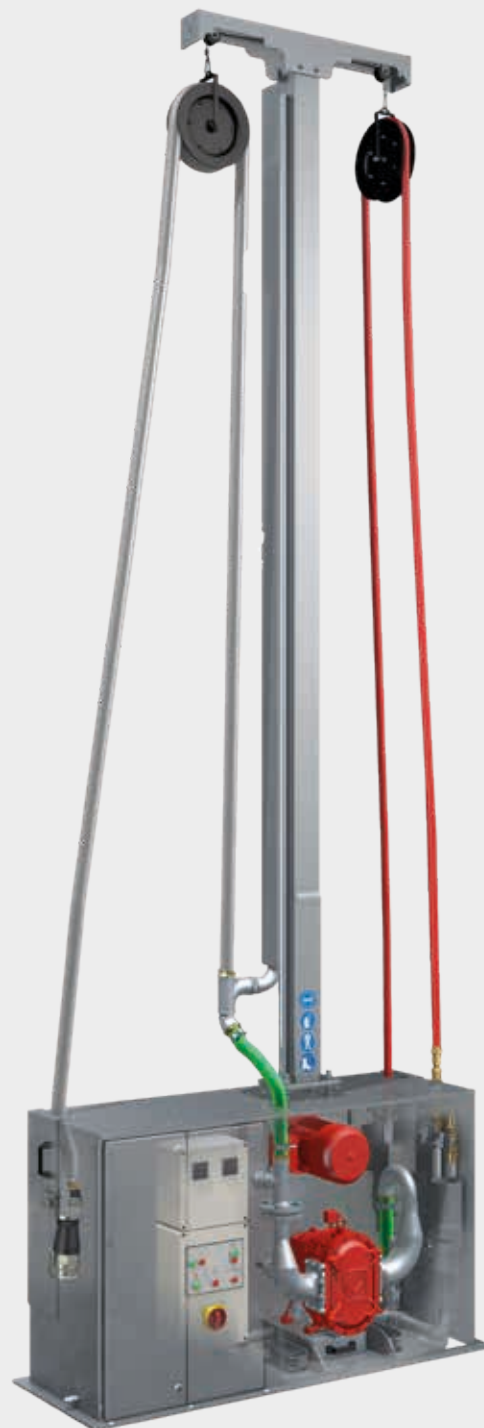
Our single-point (SP) version, as a stand-alone service module, is well suited for installation in smaller rail vehicle service systems and is equipped with a Vogelsang rotary lobe pump.

The system includes the pumping unit, as well as all connections, valves, fittings and control elements.

When the system is not in use, the couplings are kept clean, dry and easy to remove in the metal housing.

Its T-shaped mast is equipped with a hose clamping system with a retractable hose reel. This allows an easier hose handling and facilitating movement in all directions, while preventing wear and tear on the equipment.

Controlled periodical hygienic flushing, automatic water-stop function, hygienic blocking of water filling as well as wastewater extraction are provided as standard features.



### Advantages

- Service station for clean water supply and wastewater disposal in passenger trains
- Cost-effective solution for small train service stations
- Automatic hose retraction
- Easy to maintain
- Ergonomic design
- Hygienic flushing to avoid stagnation
- Water-stop (filling time limitation) to reduce water consumption
- Also designed for outdoor use with optionally available heating system

## STANDARD TECHNICAL SPECIFICATIONS

<b>Cab and mast</b>	Hot-dip galvanized welded construction
<b>Pump unit</b>	VX136 - 70Q   5.5 kW   400V
<b>Max. capacity</b>	680 l/min
<b>Vacuum</b>	0 to -0.60 bar
<b>Differential pressure</b>	Max. 2.0 bar
<b>Hose retraction</b>	Integrated counterweight system in the mast and hose guide rollers
<b>Operating radius</b>	7.5 m
<b>Drainage hose kit</b>	DN 50, UIC-compliant 3"-suction coupling & valve
<b>Water supply hose kit</b>	DN 25 UIC-compliant water hose   1"-stainless steel bayonet coupling with swivel joint
<b>Flow rate (pressure)</b>	Approx. 160 l/min (working pressure 3 bar)
<b>Control</b>	Iso-panel with Class II protection including control elements and indicators for Voltage: 3 - 400 V, 50 Hz   Max. power approx. 6.8 kW   Cable diameter: max. Ø16 mm <sup>2</sup>
<b>Hygienic locking</b>	Electric suction and exhaust side locking
<b>Hygienic rinsing</b>	With timer to prevent water stagnation
<b>Water-stop</b>	Adjustment for filling time
<b>Main dimensions</b>	Approx. 1,750 x 600 x 5,200 mm
<b>Weight</b>	Approx. 950 kg
<b>Design temperature</b>	-20 to +40 °C
<b>Ambient conditions</b>	Moderate climates

### Options

- T-mast design for different radius of operation and height requirements
- Automatic valve for increased filling capacity
- Equipment with hose for tank washing
- Acoustic, optical and warning indicators
- EasyConnect Pro WD anti-drip suction coupling
- Uninterrupted operation at low temperatures, thanks to the insulation and heating system along its pipelines
- One-piece prefabricated mounting base and foundation
- Wastewater collection and drainage equipment that eliminates the need for gravity drainage at the station
- Option with additional TUnit as remote service station
- Separate system for direct connection of the internal flushing system
- Swivel adapter to lower mast to maintenance level
- Process automation and data acquisition
- Additional thermal insulation for operating conditions down to -25 °C
- Heating elements: 4 x 250 W | 1 x 20 W heating cable

## What we offer

We provide solutions in the following sectors:  
AGRICULTURAL TECHNOLOGY, BIOGAS,  
INDUSTRY, TRANSPORTATION, WASTEWATER



## Our broad range of products and services

- Consulting and service
- Data management and control technology
- Disintegration technology
- Individually tailored solutions for special applications
- Pumps and pump systems
- Solid matter feeders
- Solids reduction, separators and mixers
- Spreading technology
- Supply, disposal and cleaning

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