



VacUnit SP

The pumping station for vacuum
wastewater disposal systems

VOGELSANG – LEADING IN TECHNOLOGY

VOGELSANG



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The Vogelsang VacUnit is a compact and reliable vacuum pumping station for grey and black water collection in vacuum sewerage systems.

Used as a centralised pumping station the VacUnit maintains the vacuum required for effluent transport within vacuum wastewater collection systems.

Reliable Vogelsang VX-Pumps enable direct inline discharge of the wastewater & air phase into the downstream wastewater system. The multi-phase pumping concept of the VacUnit eliminates the need for additional vacuum collection tanks with separate vacuum and sewage pumps.

The VacUnit SP version is designed as a compact, single pumping solution. A robust Vogelsang VX-series pump ensures reliable smooth system operation while its simple design makes the VacUnit very maintenance friendly.

VacUnits are provided as pre-fabricated & factory-tested skid units incl. pipe work manifold with required valves, fittings and controls.

Advantages

- Integrated control with system visualisation and touchscreen HMI
- Proven Vogelsang VX-Pumps creating vacuum and direct inline transport of wastewater in one single operation
- No need for bulky vacuum collection tanks & extra pumping equipment
- Simple & easy maintenance and inspection due to quick-service design
- Compact design, low space requirement
- Low-noise & smooth system operation
- Closed & uncomplicated pump station design

Options

- Weatherproof, soundproof cabinet enclosure or containerised plant room for outdoor installation
- Electronic soft starters for a smooth power grid and drive start process
- Customised solutions for process data acquisition and remote monitoring
- Extension modules for additional plant equipment
- Heating & ventilation options to cater for ambient conditions

SPECIFICATION

Pumping unit	VX136 - 105Q 7.5 kW	VX136 - 140Q 11 kW	VX136 - 210Q 15 kW	VX186 - 184Q 22 kW	VX186 - 260Q 30 kW
No. of pumping units	1	1	1	1	1
Capacity up to	60 m³/h	80 m³/h	110 m³/h	160 m³/h	300 m³/h
Vacuum range	0 to -0.60 bar (normal operation)	0 to -0.60 bar (normal operation)	0 to -0.60 bar (normal operation)	0 to -0.60 bar (normal operation)	0 to -0.60 bar (normal operation)
Differential pressure max.	2.0 bar	2.5 bar	3.0 bar	3.0 bar	2.0 bar
Power consumption at $\Delta p=0.6$ bar	4.2 kW	5.4 kW	6.3 kW	9.6 kW	17.4 kW
Control	Integrated PLC control incl. control elements & indicators 10,1" touchscreen HMI-interface with system visualisation. Multilingual plain text process data & fault notification Voltage: 3-400 V, 50 Hz Cable grommet: max. Ø25 mm²				
Pipe system	SP-pump connectors incl. ball type back flow preventer and isolation valves				
Connector inlet	DN 100 - axial restraint pipe coupling	DN 100 - axial restraint pipe coupling	DN 150 - axial restraint pipe coupling	DN 150 - axial restraint pipe coupling	DN 200 - axial restraint pipe coupling
Connector outlet	DN 100 - axial restraint pipe coupling	DN 100 - axial restraint pipe coupling	DN 150 - axial restraint pipe coupling	DN 150 - axial restraint pipe coupling	DN 200 - axial restraint pipe coupling
Common base plate	Heavy duty mild steel galv. construction				
Main dimensions L x W x H approx.	1,750 x 1,100 x 1,900	1,750 x 1,100 x 1,900	2,250 x 1,100 x 1,900	2,250 x 1,100 x 1,900	2,250 x 1,100 x 1,900
Weight approx.	1,000 kg	1,150 kg	1,350 kg	1,500 kg	1,650 kg
Ambient temperatures	+5 to +40 °C	+5 to +40 °C	+5 to +40 °C	+5 to +40 °C	+5 to +40 °C
Ambient conditions	Indoor, moderate	Indoor, moderate	Indoor, moderate	Indoor, moderate	Indoor, moderate

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
- Spreading technology
- Supply and disposal systems for railway, busses and boats
- Wet grinders and solids reduction as well as separation technology

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