



VacUnit SP

The Pumping Station for Vacuum
Wastewater Systems

VX186-184Q / 22 kW

VOGELSANG



VacUnit SP

Single Pumping Station VX186-184Q / 22 kW

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

Used as a centralized pumping station the VacUnit maintains the vacuum required for effluent transport within vacuum waste water collection systems.

Reliable Vogelsang VX-Pumps enable direct inline discharge of the waste water & air phase into the downstream waste water 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 visualization and touchscreen HMI
- Proven Vogelsang VX-Pumps creating vacuum and direct inline transport of waste water 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 containerized 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



Illustration showing special equipment (optional)

Standard specifications	
Pumping unit	VX186-184Q 22 kW
No. of pumping units	1
Capacity up to	160 m ³ /h
Vacuum range	0 to -0.60 bar (normal operation)
Differential pressure max.	3.0 bar
Power consumption at $\Delta p=0.6$ bar	9.6 kW
Control	Integrated PLC incl. control elements & indicators 7" touchscreen HMI-interface with system visualisation Multilingual plain text process data & fault notification Voltage: 3-400 V, 50 Hz Cable grommet: max. $\varnothing 25$ mm ²
Pipe system	SP-pump connectors incl. ball type back flow preventer and isolation valves
Connector inlet	DN150 - axial restraint pipe coupling
Connector outlet	DN150 - axial restraint pipe coupling
Common base plate	Heavy duty mild steel galv. construction with pockets for fork lift handling
Main dimensions LxWxH approx.	2250 x 1100 x 1900 mm
Weight approx.	1500 kg
Ambient temperatures	+5 to +40 °C
Ambient conditions	Indoor, moderate