VacUnit DP
The Pumping Station for Vacuum Wastewater Systems
VX136-140Q / 11 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 the 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.

VacUnit DP versions are designed as double pumping systems. A duty/standby pump arrangement ensures reliable operation when one unit is out of service while a simultaneous operation of both pumps allows to overcome critical peak load situations.

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 directly in-line transport of waste water in one single operation
- High system availability through duty/standby pumping arrangement
- No need for bulky vacuum collection tanks or 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

**Standard specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<tbody>
<tr>
<td>Pumping unit</td>
<td>VX136-140Q 11 kW</td>
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<tr>
<td>No. of pumping units</td>
<td>2</td>
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<tr>
<td>Capacity up to</td>
<td>2x 80 m³/h</td>
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<td>Vacuum range</td>
<td>0 to -0.60 bar (normal operation)</td>
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<td>Differential pressure max.</td>
<td>2.5 bar</td>
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<tr>
<td>Power consumption</td>
<td>(Single pump operation at $\Delta p= 0.6$ bar)  5.4 kW</td>
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**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. Ø25 mm²

**Pipe system**

- DP-pump connectors incl. ball type back flow preventer and isolation valves

**Connector inlets**

- DN100 - axial restraint pipe coupling

**Connector outlets**

- DN100 - axial restraint pipe coupling

**Common base plate**

- Heavy duty mild steel galv. construction with pockets for fork lift handling

**Main dimensions**

<table>
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<tr>
<th>Dimension</th>
<th>3000 x 1100 x 2000 mm</th>
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**Weight approx.**

- 1950 kg

**Ambient temperatures**

- +5 to +40 °C

**Ambient conditions**

- Indoor, moderate