



VacUnit DP

The Pumping Station for Vacuum
Wastewater Systems

VX186-260Q / 30 kW

V/OGELSANG



VacUnit DP



Double Pumping Station VX186-260Q / 30 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 centralised 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.

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 simultaneous operation of both pumps enables critical peak load situations to be overcome.

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
- High system availability through duty/standby pumping arrangement
- 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

- Weather & acoustic 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	VX186-260Q 30 kW
No. of pumping units	2
Capacity up to	2x 300 m³/h
Vacuum range	0 to -0.60 bar (normal operation)
Differential pressure max.	2.0 bar
Power consumption (Single pump operation at $\Delta p = 0.6$ bar)	17.4 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. $\varnothing 25$ mm²
Pipe system	DP-pump connectors incl. ball type back flow preventer and isolation valves
Connector inlet	DN200 - axial restraint pipe coupling
Connector outlet	DN200 - axial restraint pipe coupling
Common base plate	Heavy duty mild steel galv. construction with pockets for fork lift handling
Main dimensions LxWxH approx.	3150x1100x2000 mm
Weight approx.	3100 kg
Ambient temperatures	+5 to +40 °C
Ambient conditions	Indoor, moderate