



Version 14:21

The vacloader is equipped with add-ons.

DISAB Centurion™ P20

Usage

DISAB Centurion™ P20 is designed for industrial applications suitable for suctioning, discharging and transporting solid or liquid materials. Its strong and efficient suction feature makes it appropriate for industries such as cement, lime, chemicals, plastic, foundries, steelworks, quarries, pulp & paper, shipyards, and power stations.

Characteristics

DISAB Centurion™ P20 is driven by the truck's engine providing a compact high capacity machinery with the highest possible load capacity for a truck mounted unit. Its round tank design makes it suitable for handling both wet and dry materials and possess great flexibility for different applications with multiple add-ons available.

The tank is available in two different sizes; 10 m³ or 12 m³. The discharge of materials occur by tipping the tank and the tank tipping system consists of a hydraulic front cylinder, double acting system to make it easy-to-use for the operator.

Benefits

DISAB Centurion™ P20 offers extremely good suction and blow capacity. The vacuum pump is powered via a split-shaft gearbox which gives a quiet and vibration-free operation with high reliability.

Other benefits include:

- Multiple add-ons available, tailored to your specific needs.
- Sold with extensive DISAB Academy training included to optimize safety and economical value.
- The material tank and filter compartment are combined and the dust from the filter compartment is emptied through a hatch in the partition wall in the tank at the same time as the tank is tilted up.
- Collected material is discharged by tipping the tank or pneumatically through a hose (suck and blow features).
- Operated using a hand held radio for an optimized ergonomic experience for the operator.
- A power transfer box is mounted between the gearbox and the rear axle. A cardan shaft conveys the power to the pump's belt transmission

Technical Data Chart for DISAB Centurion™ P20

Description

Vacuum pump	Three-Lobe Roots Pump	Max vacuum, mbar	950
Max overpressure, mbar	1,100	Air volume m ³ /h (unloaded)	8,100
Operating speed (rpm)	2,650	Power, kW	220
Voltage Frequency, V/Hz	N/A	Power source	Truck powered
Engine type	N/A	Tank material	Carbon steel / stainless steel / acid-proof steel
Tank volume (m ³)*	10 / 12	Total Tank Volume (m ³)	12.7 / 14.7
Tank tipping system	Hydraulic front cylinder, double acting system. Tailgate is hydraulically operated and locked.	Main filter system (m ²)	70 stainless steel cages with filter socks in needed polyester glazed surface. Filter area is 26m ² .
Cooling air filter	Cartridge filter	Safety filter surface (m ²)	34
ATEX approved	N/A		

* Excluding filter volume

Core function

Suction	Yes
Blow / eject	Yes
Transport (ADR)	N/A
Discharge	By tipping the tank or unloading through blow system
Dry materials	Yes
Wet materials	Yes

Weight and Dimensions**

Complete unit including chassis (kg)	23,000
Total unit length including truck chassis (mm)	10,500
Total width (mm)	2,500
Height with hose boom (mm)	4,100

** Weight and dimensions are approximate and dependent of chassis and the vacuum unit equipment.



The DISAB Centurion™ P20 mainly consists of a permanently mounted engine room with a vacuum pump that gets its power from the truck's engine.

DISAB Centurion™ P20 is a truck mounted unit that can transport bulk materials and liquids by vacuum or overpressure through a hose system with a diameter up to 200mm.