

DISAB Industrial Vacloaders



The TrailerVac SET-20T suction units are equipped with built-in hydraulic tipping system and are towed/connected to i.e. a tractor

TrailerVac SET-20T

The TrailerVac SET-20T suction units meet the high demands from the industry due to its efficiency, reliability, ease of operation and maintenance giving excellent value for money.

The TrailerVac SET-20T units are a series of mobile, electrical powered vacuums loaders that are fitted onto trailers chassis. Dry material and even liquids can be handled by the units. Together with a fixed pipe network they can operate as a perfect central vacuum unit for industrial installations.

- Rigid design for industrial use
- Roots-type high vacuum pump (50-80%)
- Filter system for dry and wet material
- Automatic filter cleaning without compressed air
- Electrical motor 55 to 90 kW.
- Built-in tipping cylinder for easy discharge
- Large pick-up capacity

WHY TrailerVac SET-20T

Most heavy industry sites have raw material handling, production, packing etc. often located to several different buildings, with some distances between the premises. In these cases ordinary stationary central vacuum cleaning system is unable to serve everything. This is why the TrailerVac SET-20T is a suitable choice. The high suction capacity together with the large collecting hopper volume, all placed onto a trailer for towing by a tractor or similar makes the whole unit easy to transport as it is operational as soon a hose/pipe is connected together with an electrical power plug. Also the handling of the dust is easily carried out as there is a built-in tipping cylinder for the discharge.

The rigid trailer can carry high load and together with high suction capacity using Roots pump makes the unit especially suited for heavy industrial environments.

OPERATION

The vacuumed material is first separated in a specially designed fall chamber with a wear proof pre-separator inlet. In this section the heavier particles fall to the bottom of the container.

From this section the air will be lead to the main filter section where any remaining fine dust will be separated. From the filter section the air passes a safety filter before entering the vacuum pump and a silencer before exhaust.

Due to the well insulated motor compartment housing the noise level of the unit is extremely low.

An unloading valve is placed between the main filter system and the vacuum pump. The vacuum will immediately be equalised when the valve is opened and at the same time the main filters will be cleaned. This will also prevent counter-rotation of the motor as well as less power consumption at starting. It will also be activated by safety control functions.

All functions are controlled at the dust-tight control panel and control lamps will indicate the units operational status.

APPLICATION

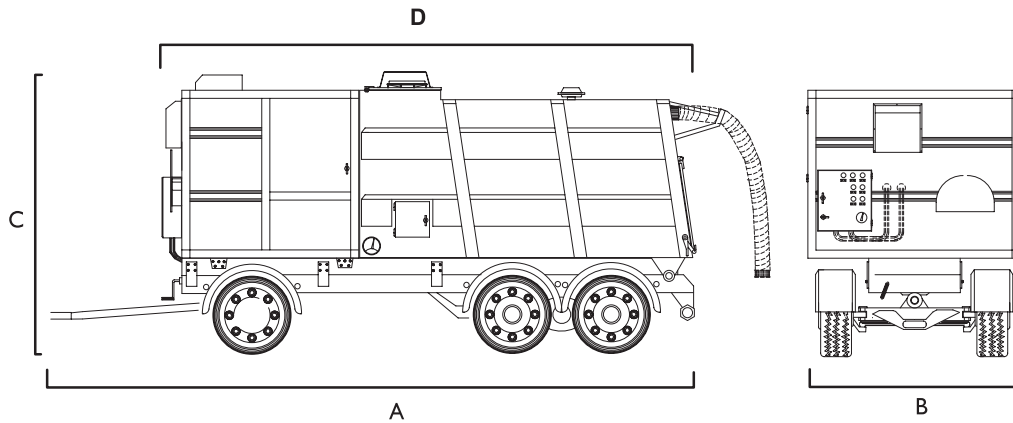
For use in any industrial application where collection of dust is required i.e. to clean out; deep pits, trenches, bucket elevators, conveyor spills, overhead cranes and runways, dust collectors, processing machines etc.

The unit is specially suitable where bulky or sticky material shall be collected due to it's convenient discharging.

TYPICAL USERS

Manufacturers of Cement, Lime, Gypsum, Tiles, Ceramics, Chemicals, Plastics, Fertilizers and Alumina.

Foundries, Steel mills, Quarries, Mines, Pulp- and Paper Industry, Incineration Plants, Thermo-electric Power Plants, Painting Contractors/Shipyards, Cleaning Contractors...



TrailerVac SET-20T

VACUUM PUMP

The vacuum producer is a Roots-type vacuum pump, powered by an electrical motor and V-belt transmission. Pump and motor is mounted on a common steel structure machine frame, which also is the exhaust silencer.

The vacuum pump is equipped with a spring loaded safety valve regulating the vacuum not to exceed its maximum operating range. For extra protection of the pump, a high temperature sensor and a safety filter are installed.

The drive part is built into an insulated steel enclosure with silencers and safety filters to reduce noise level and fitted with service doors for access purposes.

FILTER SYSTEM

Filter compartment contains a cassette filter with flat filter bags, made of specially treated polyester needle felt. Service of filters is easy from the clean gas side on the outside of the unit.

The filter system is equipped with a vacuum controlled ATM (air-repulse) filter cleaning system. When activated, large air inlets will ensure a fast backwards air direction through the filters, thus in an efficient way knocking off collected dust from the filter surface.

DUST BIN

Type: Container, tailgate door with manual locking (Hydraulic controlling, watertight, option)
Volume: 10 m³ dust/material capacity

MISCELLANEOUS

Trailer: 21 tonnes capacity
Tipping Cylinder: Hydraulically 19 tonnes capacity
Filter class: L, M IEC EN 60335-2-69
Hose connect: Dia 152 mm or smaller
Material: Steel S 235 JG2
Painting: System C2, RAL 3003 red
Max towing speed: 30 km/h

OPTIONS

- Aut. Jetpulse Filter Cleaning
- DP-Gauge: Safety Filter
- DP-Switch; Safety Filter
- Extra Noise Insulating ATM-Valve
- Hydraulic Operation/Locking Tail Gate
- Hydraulic Unit, for Tipping & Tail Gate Operation
- Level Control; Paddle or Vibration type
- Line (Circuit) Braker
- Pre Designed for Remote Control 24V
- Radio Remote Control (CE, Carrier vave interr.)
- Star-Delta Starter
- Temp Switch Motor
- Timer Auto Stop
- V-Belt Cover
- Vacuum Timer Stop
- Ventilator Cooling

Item/Model		SET-20T.55	SET-20T.75	SET-20T.90
Dimensions, mm	A	7800	7800	7800
	B	2455	2455	2455
	C	3190	3190	3190
	D	6570	6570	6570
Weight, kg (approx)		8700	8800	8950
Max Vacuum, mbar		500	500	500
Air Volume m ³ /h (unloaded)		3360	4625	5180
Electrical Motor, kW		55	75	90
Voltage Frequency, V/Hz		400/50	400/50	400/50
Main Filter surface, m ²		24	24	24
Safety Filter Surface, m ²		30	30	30
Noise Level dB(A) (at 1 m/5 m distance)		72	72	72
Layout		F-20477	F-20477	F-20477

We reserve the right to alter any specifications without prior notice

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