

RojanSanatAlborz

HIGH VACUUM SYSTEMS

Rojan Sanat Alborz is a seller and cleaning service provider of high quality industrial vacuum cleaners

(H series) for factories, mines & different industries in order to suction and blowing dry products and liquids.

Our customers can use H series for the purpose of environmental protection by investing in these units which reduce harmful emissions and maintenance costs in factories. In this regard, important aspects are: reliability, easy to operate, long Life and economical efficiency.

The High vacuum is the best choice concerning a modern & economic solution for vacuuming, blowing & discharging.

These series were specially developed for heavy industrial applications.

Maximum flexibility, large tank volume, low total weight & compact design were the key requirements during the development of these machines.



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H series characteristic:

- Vacuuming and blowing dry and wet materials
- Stainless steel tank capacity: from 10m³ up to 23m³
- Suction with 90%-96% vacuum and blowing with 1 bar pressure
- Vacuum pump with the capacity of 6000m³/h-11000m³/h
- Low fuel consumption
- Low noise level
- Filling of Big-Bags with a 300mm slide valve (Hi-Lift)
- Main filter with 26 up to 44 cartridges

Application examples of this machine:

- The suction of catalyst
- The suction and blowing of (roof) gravel, pellets, metal concentration, etc
- The suction and blowing of powders in industries such as steel, cement, etc
- The suction and blowing of sludge and slurries

H series models are:

- RSA-HF: Mobile Unit
- RSA-HV: Truck Mounted
- RSA-HS: Stationery System
- RSA-HC: Catalyst Unit



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RSA-HV Series (Truck Mounted)

The Truck Mounted unit is the best choice concerning a modern and economical solution for vacuuming, blowing and discharging of dry and liquid substances. The high quality materials fulfill all requirements of industrial contractor. In short, the most maneuverable and all-round machine with a large loading capacity and low fuel consumption. The RSA-HV could be designed for vacuuming substances in a closed nitrogen environment and equipped with a water-cooled cooling system for controlling the temperature of the exhaust airflow.

Specification:

- Tank body Material: Steel/Stainless Steel
- Filter loading capacity: 2.0 m³
- Container loading capacity: 15.0 m³ up to 23 m³
- Tipping mechanism: hydraulically operated
- Rear door closing: hydraulically operated with 4 tapered rams
- Level guard: electronically operated
- Filter cleaning: compressed air operated reverse jet pulse
- Safety filter: stainless steel filter element
- Filter top door: swivel action with quick release clamps, hydraulically liftable
- Air flow: 8000 up to 11000 m³/h
- Noise Level: approx. 78 dB, integrated silencers and blower-housing
- Design pressure: 2 bar
- Test-pressure: 1.43 bar
- Working-pressure: 1 bar

Chassis design:

- 3-axle: Wheel base approx. 4500 mm 1st – 2nd axle
Total weight construction + chassis approx. 15.000 kg
- 4-axle: Wheel base approx. 3525 mm 2nd – 3rd axle
Total weight construction + chassis approx. 19.000 kg
- 5-axle: Wheel base approx. 3525 mm 2nd – 3rd axle
Total weight construction + chassis approx. 22.000 kg
- Cabin: Short or sleeper cab
- Minimum power engine required: 300 hp
- Make: All makes are possible. Wheel base and total Weight depends on make and installed options.

Some applications:

- The suction of catalyst
- The suction and blowing of (roof) gravel
- The suction and blowing of powders
- The suction and compressing of heavy sludge and slurries





RSA-HF Series (Mobile Unit)

The mobile unit (RSA-HF) is a modern industrial double-axle semi-trailer with steering axle, developed especially for the suction, blowing and transportation of sand, gravel, substrates and liquids.

This unit is available with a roots blower or screw-compressor. It is driven by a 4 or 6-cylinder diesel engine and an automatic gearbox with 2 gears and a hydraulic clutch. This gearbox gives the mobile unit a higher suction and blowing capacity while using less fuel.

Transportation possibilities:

- Truck with drag-on hook-and-arm system
- Truck with cable system
- Truck with 20' container twist locks
- Semi-trailer with 20' container twist locks
- Trailer with 20' container twist locks
- Rail carriage with 20' container twists locks

Some applications:

- Suction of catalyst
- Suction and blowing of (roofing) gravel
- Suction, blowing and discharging of powdered substance
- Suction and discharging of various sludge and slurries



Specification:

- Tank: stainless steel
- Capacity filter compartment: 1.5 m³
- Capacity material compartment: approx. 10 m³ up to 23m³
- Tank diameter: 2.000 mm
- Total height: 3.900 mm
- Unladen weight: 9.300 - 15.500 kg
- Permissible total weight: 25.000 - 47.000 kg
- Loading capacity: 16.000 - 24.000 kg
- Semi-Trailer: 2 air-axles with air suspension, rear axle designed as operated steering axle. Tandem set - 20.000 kg, kingpin - 18.000 kg
- Air flow: min. capacity approx. 6.000 m³/h max. capacity approx. 11.000 m³/h max. pressure 1bar, max. vacuum 960 mbar.
- Diesel engine: 4 or 6-cylinder diesel engine with an automatic gearbox.



RSA-HC Series (Catalyst Unit)

- Suitable for suction and discharge of dry "pyrofore" products
- Suitable for vacuuming product under nitrogen conditions
- An integrated stainless steel nitrogen cooler is foreseen
- Complete installation is mounted on a 2-axle trailer suitable to be transported by any desired truck
- Continuous vacuum and discharge
- Effective filter air pulse cleaning system
- Stainless steel Filter separator



Specification:

- Pump: 8000 up to 9000 air cooled roots
- Capacity: 8000 up to 9000 m³/h (free air) at 3100 r.p.m
- Under pressure: 0.96 bar
- Temperature: exhaust max. 140 °C
- Diesel Engine Power: approx. 180 to 320 KW
- Sound Level: approx. 75 dB
- Suction connection: 150 mm with coupling to clients choice
- Cleaning man hole: A manhole will be foreseen in the separator DN 450 with quick clamps. Through this manhole the level sensor can also be cleaned and replaced.
- Platform/Walkway : installation of a suitable platform for access to the manhole by a ladder

RSA-HS Series (Stationary Unit)

- Completely self-supporting
- Built standard into a 10ft container
- Can be linked to a vacuum tank or cyclone
- Wet and dry
- Full vacuum pump : max.98% vacuum
- Vacuum pump driven by a separate diesel or electro engine
- Integrated safety filter
- Transport by container truck, trailer, semi-trailer or flat cargo truck/trailer
- Ease of operation and maintenance



Specification:

- Vacuum: 96%-98%
- Power required: approx 70 up to 250KW
- Air volume: 2500 up to 11000 m³/h
- Engine: diesel or electro engine

