

APPLICATION

- Waste industry.
- Petrochemical industry.
- Oil and gas industry.
- Refineries.
- Chemical industry.
- Construction industry.
- Steel industry.
- Paper pulp industry.
- Poultry farms.
- Manufacturing industry.
- Infrastructure sector.
- Maritime/shipping sector.
- Aviation industry.
- Automotive industry.
- Food and feed industry.
- Medical sector.
- Defense industry.
- Agriculture.

Safety Information



The IVT X-VAC Industrial Vacuum Loader with cyclone separation technology is engineered for demanding industrial applications. It is designed to suction, displace (optional), transport, and discharge a wide range of dry, wet, and hazardous materials, including catalysts, gravel, powders, cement, phosphate, fly ash, and sludge.

Purpose-built for handling hazardous and contaminated substances, the X-VAC system is available in ADR and API certified versions, ensuring full compliance with the highest international safety and environmental standards. Its robust construction and advanced separation system make it the ideal solution for safe, efficient, and continuous operation in critical industrial environments.

BENEFITS:

- Self cleaning cyclone separation system without filter bag.
- Low maintenance and operating costs.
- Compact and Lightweight System Design.
- Efficient suction of heavy and dense materials.
- Faster sludge tank filling, improving operational efficiency.
- Powerful and consistent suction performance.
- Sustainable and reliable long-term operation.
- Simplified and easier maintenance.
- Oil-free tri-lobe vacuum pump technology.
- Designed and manufactured in compliance with the latest environmental and safety standards.





Designed and Certified for

- Assembly on a 3 axle truck with min, 360hp chassis.
- Transportation of hazardous and nonhazardous substances.
- ADR Requirements.
- Tank code L4AH & S4AH.

Pressure / Vacuum tank

| | |
|---------------|---|
| Volume : | 12 m ³ |
| Material : | Stainless steel AISI 316L grade; material no 1.4404 |
| Rear door: | Hydraulically opening and clamping |
| Discharging : | By means of tipping or pressurizing |
| Loading : | By means of suctioning or through the manhole on top |
| Including : | 6" suction connection with coupling as desired, followed in a 6" elbow with exchangeable wear resistant plate. 6" discharge connection provided with shut-off valve with coupling as desired, on the rear door (excluding quick-exchange system). |

Vacuum pump & vacuum system

| | |
|--------------------|--|
| Type: | Tri lobe worm screw profile with air injection blower |
| Air flow Capacity: | 8000 m ³ /h |
| Air displacement: | 202 kW, suitable for suctioning with 6" (DN 150) hoses |
| Max. Vacuum: | 96% |
| Piping: | 8" -10" air ducts |
| Drive: | By means of cardan shaft either by V-belt or transfer case (Chassis dependent) |
| Including: | Silencers with hinged exhaust stack |

Filtration system

| | |
|--------------------|--|
| Design: | Dual-stage filtration system comprising 2 x 4 cyclones designed for efficient particle separation |
| separation: | Integrated separator tank equipped with a vacuum suction return system in combination with an air cleaning system For continuous filtration performance |
| Cyclone separator: | Cyclone and filter cleaning via a programmed three-position pulse time/interval switch, adjustable directly from the control panel. Level indicator (wet/dry) installed in the collecting receptacle for real-time monitoring of tank filling status. System designed for easy maintenance and optimal airflow performance under continuous operation Each cyclone is fitted with an independent fine dust safety filter (Group E12 as per EN Ensures optimal air quality and protects the vacuum pump from fine particulate |

Miscellaneous

| | |
|---------------------|--|
| Provisions: | Working light, rear bumper, side guards, stainless steel control box, hose tray, toolbox |
| Body inspection: | Arranged by IVT |
| Instruction Manual: | Consisting of operating / maintenance instructions and schedules |

Clean water tank

| | |
|---------------|----------------------|
| On behalf of: | High pressure pump |
| Volume: | 500 liter |
| Material: | Aluminum |
| Including: | Low level protection |

High pressure Kit

| | |
|------------------|------------------------------|
| Pump type: | Plunger Triplex |
| Pressure & flow: | 200 BAR & 30lpm |
| Hope reel: | Manually operated 1/2" x 30m |
| Including: | High pressure gun |

Compressor Kit

| | |
|------------|-------------------------|
| Type: | Oil free vane type |
| Flow: | 200 m ³ /h |
| Pressure: | 2 bar |
| Including: | Nitrogen purging system |

ADR safety kit

| | |
|----------------|---|
| Consisting of: | Rupture disc, earth monitoring system, Chalwyn valve, Pneumatic lock on the valve |
| Hydrotest: | ADR label holders, Double insulated wiring, ATEX certified blower, ADR certification for truck, inspection report |

Dimensions (Chassis Dependent)

| | |
|---------|-------------------|
| Length: | Approx. 10,000 mm |
| Width: | Approx. 2,550 mm |
| Height: | Approx. 3,900 mm |

Weights

| | |
|--------------------------|-------------------------------------|
| Empty Weight: | Approx. 18 tons (Chassis dependent) |
| Max. permissible weight: | 33 tons (Chassis dependent) |

