

VORTEX

The next generation

VORTEX

Vacuum technology for your job

The VORTEX collects liquids, sludges and suitable free-flowing dry materials. Its vacuum pump draws the material through a hose into the stainless steel tank.

Suction

Use wet or dry suction to remove water, sediment and suitable residues from tanks, silos and industrial plants.

Pneumatic conveying

Blow suitable dry materials such as roof gravel or green roof substrate from the tank to where they are needed.

Built for industrial cleaning

For silo cleaning in food production, we match the filters and hose system to the material and operating environment. Where combustible dust is present, we account for the required explosion protection.

Configure your VORTEX with us

Together we select the tank capacity, vacuum pump, suction boom and other equipment to suit your materials and operating conditions.

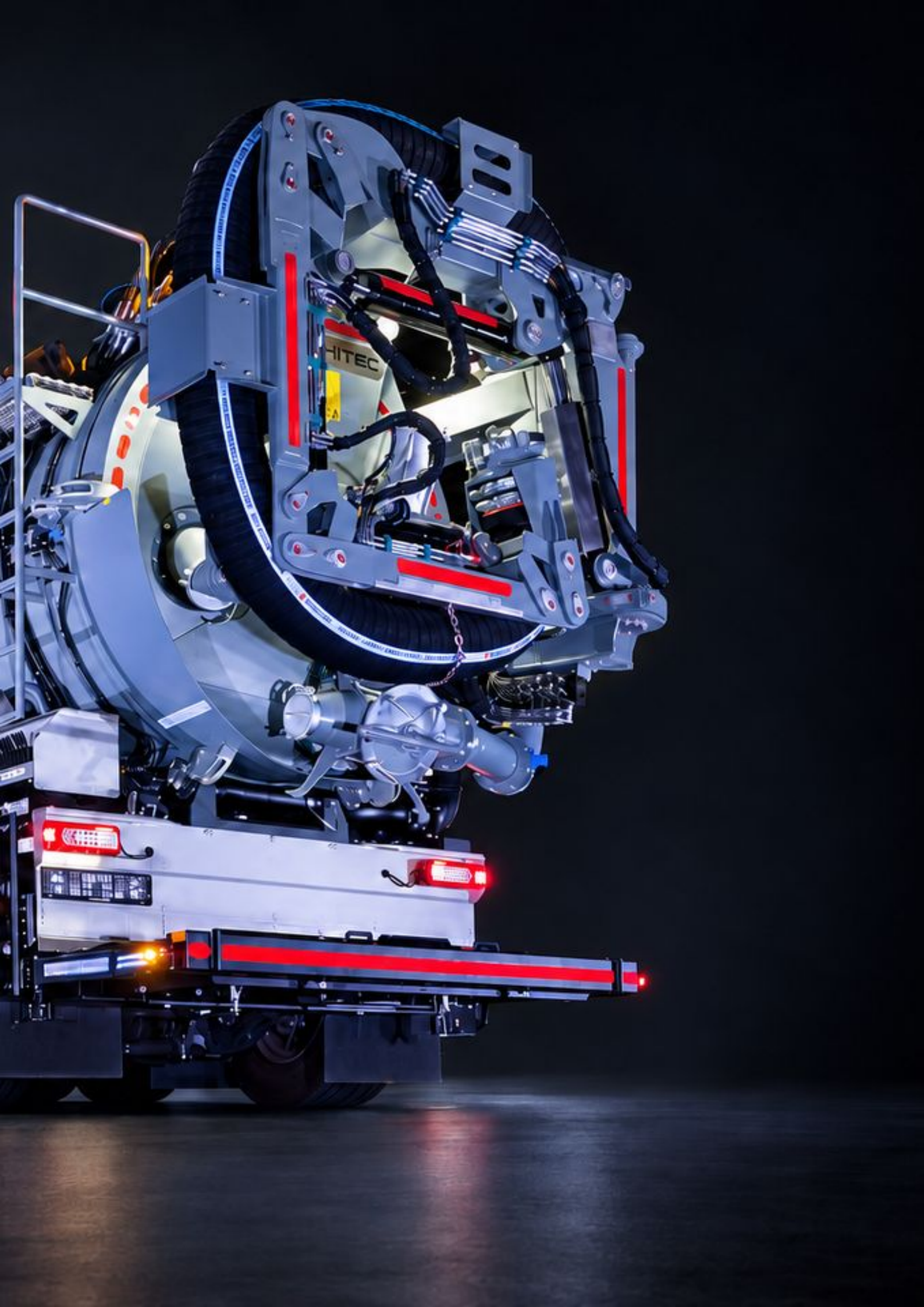


Removing water and sediment from firewater storage tanks



VORTEX

Suction. Blowing. Discharge.


HITEC



A CLOSER LOOK AT THE TANK

Stainless steel tank sized for your work

14 m^3 as standard, 12 m^3 on the three-axle model and up to 16 m^3 depending on configuration. The tank tips to the rear for unloading. Hi-Lift is available for unloading at height.



THE RIGHT SUCTION BOOM

Hose guidance to suit your work area

Choose an industrial boom, a multipurpose boom, an articulated hose carrier or a configuration without a boom. We help you choose the right option for your access requirements and work area. Articulated hose carrier shown.



Conveying roof gravel through a hose onto a residential building

THREE FUNCTIONS

Collect material by suction

The VORTEX draws suitable wet and dry materials through the hose into the stainless steel tank. The vacuum pump, filters and hose routing are matched to the material.

Equipment to suit your work

Suction, dry material conveying and pressure discharge serve different purposes. The technical data on the following pages show the standard configuration and available options.

Convey dry materials

The standard Venturi system blows suitable free-flowing dry materials such as roof gravel or green roof substrate from the tank to the work area. An integrated cyclone separator is available for specialist applications.

Discharge liquids under pressure

Pressure helps discharge liquids and sludges from the tank at up to 1 bar as standard, or up to 2 bar with an optional compressor, within permitted operating conditions. Valves allow manual adjustment of airflow.

Up to 16 m^3

Stainless steel tank · optional

55 m^2 filter area

Standard equipment

Up to 18,000 m^3/h

Airflow depends on configuration

Up to 0.95 bar vacuum

RSP Connect

Integrated as standard

Features depend on package and vehicle.



ON-BOARD CONTROLS

Operate directly at the machine

Levers and other controls at the right rear come as standard. Choose the control option that suits your workflow.



RADIO REMOTE CONTROL

Operate from a distance

Radio remote control is available as an option for your vehicle configuration.

TECHNICAL DATA

Tank, discharge and vacuum pump

Feature	Standard configuration	Options / variants
Tank material	Stainless steel	-
Tank capacity	14 m^3	12 m^3 on the three-axle model. Up to 16 m^3 depending on configuration.
Tipping function	Rear discharge	Hi-Lift for unloading at height
Roots vacuum pump / airflow	1 × 9,000 m^3/h	1 × 11,000 m^3/h or two pumps with up to 18,000 m^3/h combined
Dry material conveying	Standard Venturi conveying system	With integrated cyclone separator
Pressure discharge	Up to 1 bar	Additional compressor for up to 2 bar [1]
Pressure discharge control	Airflow manually adjustable via valves	-

[1] Permitted discharge pressure depends on the material, vehicle configuration and operating conditions.

Up to 0.95 bar vacuum depending on pump configuration. We confirm capacity, payload and equipment for the chosen chassis and application.

CONFIGURED FOR YOUR WORK

Filters, water, controls and suction boom

Feature	Standard configuration	Options / variants
Filter area	55 m^2	Smaller filter configuration
Filter elements	Individually replaceable	-
Filter chamber door	Hydraulically operated, with an additional separation stage	-
Inspection access	Filter chamber and top of tank	-
Water tank	400 l	Up to 1,800 l
Controls	Levers and controls at the right rear	Remote control
Hose transport	Tie-down strap system	-
Boom configuration	Selected to suit the application	Industrial or multipurpose boom, articulated hose carrier or no boom
Hose connection	On the articulated hose carrier	8 or 10 inches with compatible RSP accessories
Telematics	RSP Connect integrated	–

Suitable free-flowing dry materials can be conveyed up to 200 m in distance or 75 m in elevation. Achievable values depend on the material, hose routing and equipment. Each maximum applies separately.

Suction boom options at a glance



Industrial boom



Multipurpose boom



Articulated hose carrier



Without boom

Photos show example configurations. Vehicle details may vary.

DESIGNED FOR DAILY USE

Simple, intuitive controls

The controls follow the same logic as other RSP vehicles. The machine display shows key operating values, warnings and service information. Standard controls are at the right rear. Remote control is optional.

SIR / Industrial cleaning

A separate equipment package follows the guidelines of the Stichting Industriële Reiniging. We tailor the equipment and operating procedures for safe operation to your requirements.

Configured for your application

Choose the tank capacity, vacuum pump, suction boom and other equipment with us to suit your materials, work areas and tasks.

ATEX / Explosion protection

The configuration depends on the material, environment and documented area of use. The design accounts for the suction point, the material handling system and the vehicle location.

Maintenance through the RSP network

RSP workshops can service your machine. Operating hours and service information help you plan maintenance and workshop visits. RSP Connect adds digital data for managing your fleet.

ADR / Dangerous goods transport

The optional ADR configuration is available only without a suction boom. It allows collection and road transport of approved dangerous goods. Approved substances, vehicle configuration and permitted operating conditions determine its use.

RSP CONNECT

Keep track of your VORTEX and your fleet

Manage your VORTEX as part of your fleet. RSP Connect gives you access to machine data on your PC and in the app to help plan industrial and cleaning jobs.

Coordinate jobs more easily

Depending on your package, you can access location data, location history and geofencing. See where your VORTEX is working and coordinate upcoming jobs across plants and sites.

Plan maintenance ahead

Operating hours and service counters help you schedule maintenance between cleaning jobs. Subscribe to email alerts to act on available maintenance information and warnings.

Track machine usage

Depending on the package, RSP Connect can display historical operating and condition data and generate reports and exports. Use these insights to assess machine usage and plan your fleet accordingly.



Example screen from the RSP Connect mobile app

Available data and features depend on the vehicle, chassis, package and permissions. We confirm the features for your VORTEX with the configuration.

Find out more at www.rsp.com/en/service/connect/



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