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Amanzi Recycler



Established 88

All details at a glance

Built for Africa. Engineered for Endurance.

The **Werner Amanzi Recycler** represents the next evolution in sustainable sewer and stormwater cleaning. Designed and manufactured in South Africa, it combines robust engineering, intelligent water recycling technology, and long-lasting components to deliver the ultimate performance inefficiency, water conservation, and operational reliability.

Every element of the **Amanzi Recycler** has been engineered for performance, safety, and ease of operation.
From precision hydraulic control systems to advanced touchscreen monitoring, each feature reflects Werner Pumps' dedication to quality and innovation.

Key Components Displayed:

- Rear hydraulic door locking system
- Control and pressure gauges
- Central digital touchscreen interface
- Emergency stop switch
- Pneumatic valve controls
- Compact hose reel system
- Lockable toolboxes and rear access platforms

The **Amanzi Recycler** is a complete sewer-cleaning and water-recycling system, designed to simplify maintenance, increase uptime, and ensure operator safety and efficiency in demanding environments.

All details at a glance

Built To Last















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TECHNICAL SPECIFICATIONS AND EQUIPMENT

3-Axle Truck (see FIG. 1 & 2)

Tank Volume (L): ± 12,500 L

Payload (Kg): ± 12,500 kg

Dimensions (L x B x H): 9447 x 2600 x 3820 mm

Tank Superstructure

- Constructed from 304-grade stainless steel, 6 mm thickness for corrosion resistance.
- Rear door with single hydraulic cylinder for secure, effortless opening.
- Pneumatic charging/filling valve for rapid operation.
- Three sight glasses at the rear for easy water-level monitoring.
- Rotating safety beacon mounted on tank end.
- Rear door with single hydraulic cylinder for secure, effortless opening.
- Multistage hydraulic tank tilting system for complete discharge.
- 120 m × 1” lightweight rubber hose on hydraulic reel.
- Customizable signage boards (up to 2450 x 550 mm) for branding.

Control System

- Central 10” HD touchscreen control panel providing
  - Live monitoring of pressure and vacuum levels,
  - Component operating hours and status,
  - Automatic error detection for simplified diagnostics.
- Wireless multifunction remote control enables full interactive dialogue between operator and system.
- Automatic optimisation of engine power output for fuel and noise efficiency.
- Full valve bank operation accessible from control station

Hydraulic System

- All primary functions driven hydraulically via truck engine
- Adaptive hydraulic system automatically regulates engine power to match load, minimising fuel consumption and reducing emissions

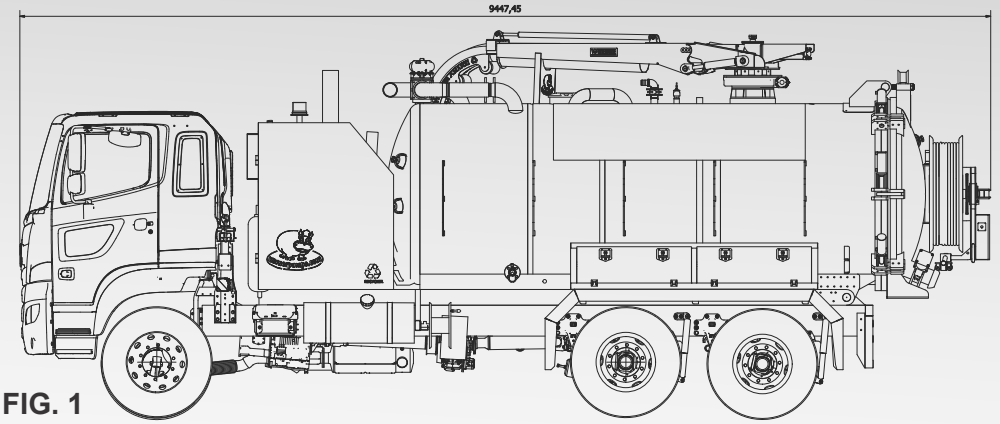


FIG. 1

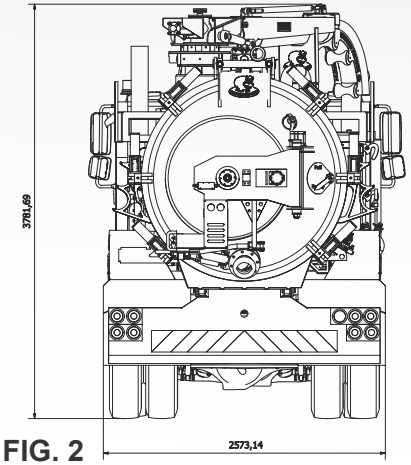


FIG. 2

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Vacuum System

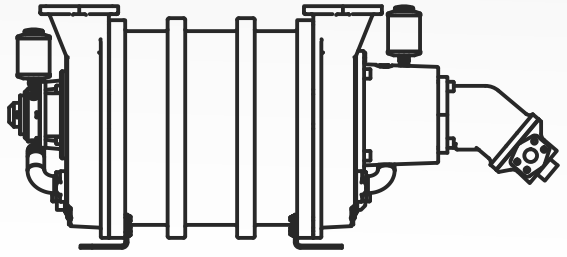
Vacuum System

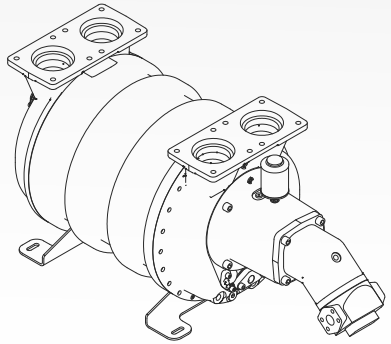
- Werner liquid-ring vacuum pump with continuous 0.85 bar pressure.
- Three suction stages: Low / Medium / High with eccentric rotor design generates a water ring that creates strong, consistent suction.
- Pneumatic suction and drain valves
- Pneumatic suction/pressure change-over valve
- Telescopic 360° suction boom, continuous rotation 45° lift, 3.4–4.6 m reach, controlled from central panel.
- High dirt resistance — suitable for wet and dry applications
- Integrated intercooler system maintains low service-water temperature during extended operation, preventing overheating and ensuring reliable long-term performance



Vacuum System Technical Data

Vacuum Pump Model:	**VPC 80**		
Max. Air Flow in m³/h	2100 - 3100 m³/h	Weight in Kg	408
Max. Air Flow in cfm	1825 ft³/min	Weight in lbs	899
Max. Vacuum rate in %	85%	Length mm	1247
Max. Vacuum rate in Hg	25.4	Length in	49
Max. Pressure in bar	0.8	Width mm	550
Max. Pressure in p.s.i	11.6	Width in	21.6
Max. power kW	95	Height mm	605
Max. power HP	127	Height in	23.8





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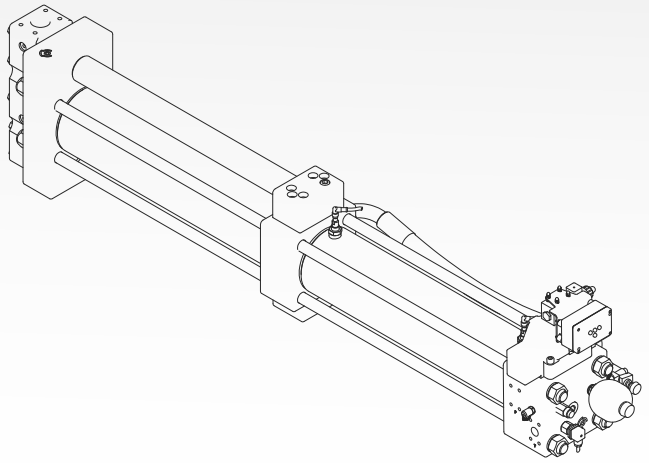
High-Pressure System

High Pressure System

- Hydraulically driven high-pressure pump converts oil pressure directly into water pressure.
- Independent adjustment of pressure and flow rates.
- Extremely slow piston speed (HPT) allows safe dry running and resistance to contaminated water.
- Minimal moving parts = quiet operation and low maintenance.
- Continuous filter cleaning via centrifugal pump and valve bank.
- Dedicated water reservoir for reliable pressure supply.
- Driven via truck's split shaft unit through a power-and pressure-controlled hydraulic pump.
- Operating capacity 350 l/min @ 205 bar.





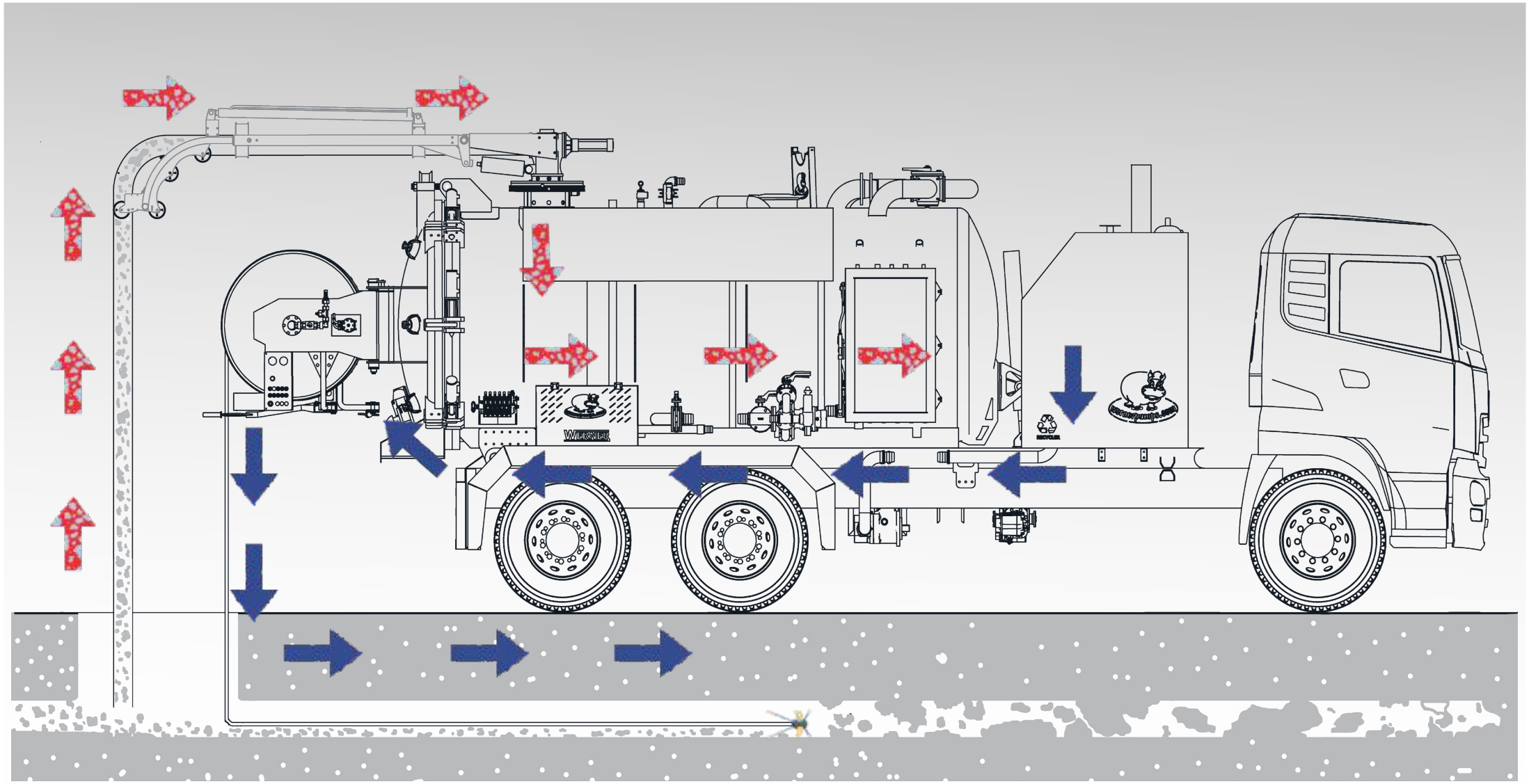


High Pressure System Technical Data

High Pressure Pump Model:	**VPC 80**		
Max. Water Flow in L/min	500	Length mm	2127
Max. Water Flow in gal/min	132	Length in	83.7
Max. Water Pressure in bar	200	Width mm	372
Max. Water Pressure in p.s.i	2900	Width in	14.6
Max. power kW	190	Height mm	503
Max. power HP	254	Height in	19.8
Weight in Kg	285		
Weight in lbs	628		

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Water Recycling System



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WATER RECYCLING SYSTEM

Recycling

- The filtered water is immediately reused for continuous flushing — minimising water waste.

Combined Sewer Cleaning

- Jetting and vacuuming occur simultaneously for optimal efficiency.

Flushing

- A high-pressure hose and nozzle are inserted into the sewer line. Water jets dislodge and flush debris toward the manhole while propelling the hose forward.

Vacuuming

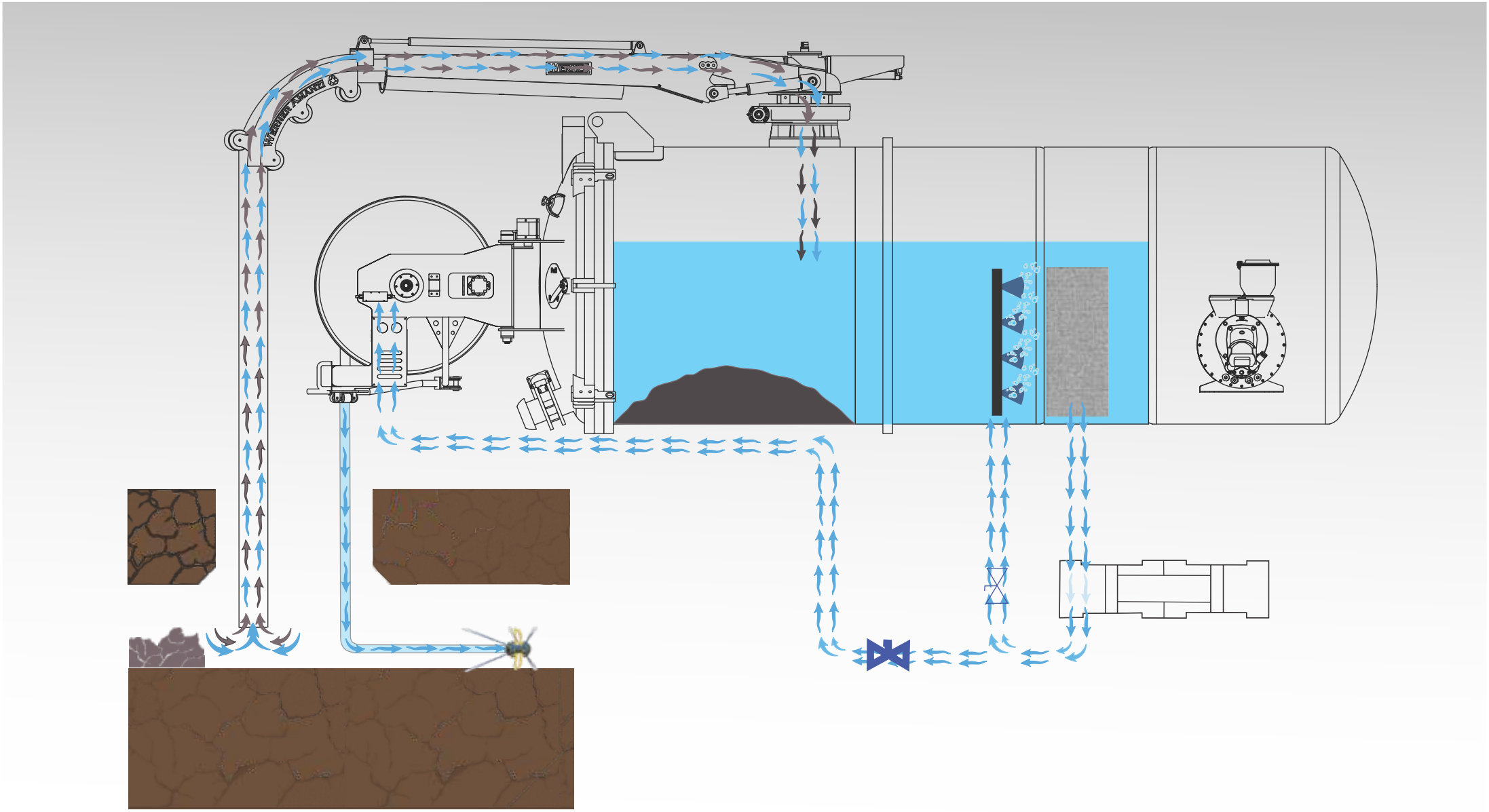
- Dislodged material is extracted via a suction hose into the sludge tank, separating solids and water.

Water Recycling System

- Central to the system is a rotating oscillating filter drum built into the front of the sludge tank
- One-stage filtration eliminates the need for a settling basin
- The design allows continuous water recycling even under high grease or heavy sediment conditions
- Automatic back-flushing ensures consistent operation and self-cleaning
- Average water saving: ±61 million litres per year
- Fewer refilling and disposal runs = reduced emissions, downtime, and operating cost

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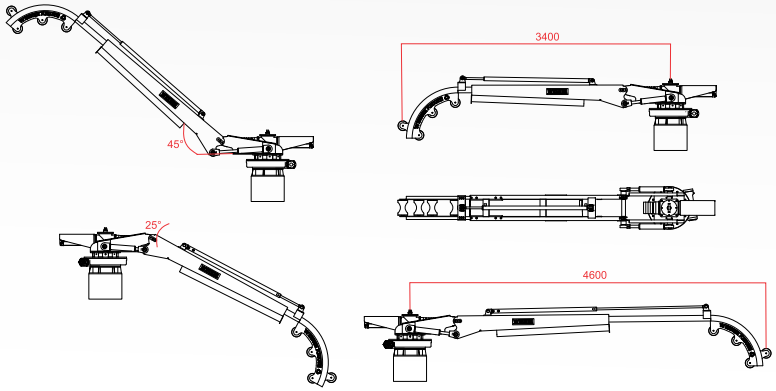
Water Recycling System



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WATER RECYCLING SYSTEM





Suction Boom

- This versatile, operator-friendly boom design ensures maximum reach, flexibility, and control - enabling fast, safe operation in complex cleaning environments.
- Hydraulic lift and lower function (45° lift angle).
- Continuous 360° hydraulic rotaion.
- Telescopic reach: 3.4 - 4.6 m
- 6” (Nw150) pneumatic stop valve and intake.
- Operated via the central control panel and wireless remote.

Water MAXIMIZER Recycling System

- A powerful yet user-friendly solution designed to maximise fresh water conservation and improve cleaning productivity.
  - Capable of performing simultaneous jetting and vacuuming
  - Automatic centrifugal pump cleaning cycle maintains filter efficiency
  - Constructed from oscillating stainless-steel drum
  - Integrated tank cleaning nozzle for self-maintenance

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Equipment & accessories

Nozzles & Hoses

Werner Pumps supplies a full range of high-performance accessories designed to complement the Amanzi Recycler and enhance overall efficiency.

Product Range Includes:

- ENZ Swiss-engineered jetting nozzles for precision cleaning
- Rotary and fixed nozzles for varying pipe diameters
- Specialised cutter and root removal heads
- Vacuum hoses, suction lines, and discharge couplings
- High-pressure hoses with reinforced protection layers
- Quick-release couplings and fittings

All accessories are rigorously tested for durability, safety, and compatibility with Werner high-pressure systems.























Get in touch

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For premium-quality high-pressure jetting and recycling solutions, contact Werner South Africa Pumps & Equipment today. Experience the highest levels of service, innovation, and support in the industry.

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100%™ SA BUILT

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