



WERNER



AMANZI RECYCLER



100%
SA BUILT

ALL DETAILS AT A
GLANCE



Rear Mounted Control Panel



Computer Programmed



Wireless Remote Operation



Telescopic 360° Suction Boom



Flag Type Hose Reel



Lock Cylinders



Lockable Toolboxes

TECHNICAL SPECIFICATIONS AND EQUIPMENT

3- Axle Truck (see Fig. 1 and 2)

Tank Volume (L)	12500 (Approx.)
Payload (Kg)	12500 (Approx.)
Dimensions L x B x H (mm)	9278x2600x3820

Tank Superstructure

- Tank sheet in 304 Stainless steel
- Rear door opening with a single Hydraulic Cylinder
- Charging/ Filling hole with pneumatic valve
- 3 Sight glasses at the rear for water level indication
- Rotating beacon on top of tank end
- Tank tilting system with a multistage hydraulic cylinder
- Hose reel with 120m x 1" light weight rubber hose (see Fig. 6)
- Personalised signage boards according to customer needs 2450x550

Control System

- Central control panel with 10" HD digital touch color screen display for:
 - Pressure monitor for vacuum and high-pressure pumps.
 - Operating status and operating hours of main components.
 - Error messaging for making troubleshooting a breeze.
- The long range multi-function wireless remote control operation with feedback permits interactive dialogue with the components, the operating status is hereby monitored and the optimum power requirement automatically adjusted.
- Valve bank operation

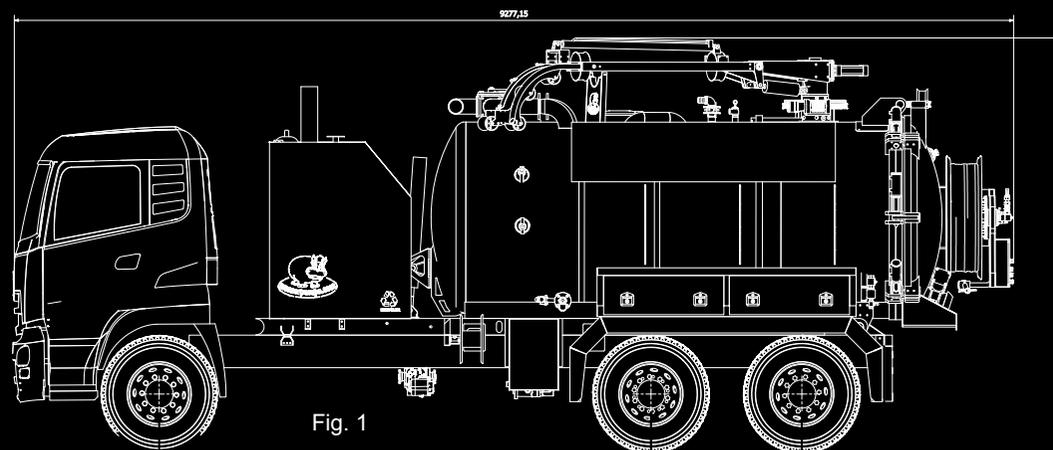


Fig. 1

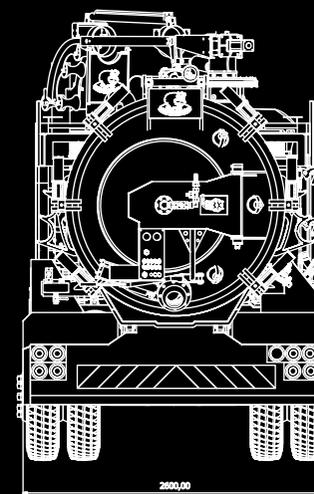


Fig. 2

Hydraulic System

- All vehicle components are hydraulically driven via the truck engine.
- The consumer optimized hydraulic system automatically controls the required engine power, reducing fuel consumption and noise emissions.

TECHNICAL SPECIFICATIONS AND EQUIPMENT

Vacuum System (Fig. 3)

- In the WERNER liquid ring pump housing, an eccentric rotor produces a ring of water using centrifugal power, volume changes in the rotor chambers assure that air is sucked in and compressed.
- This construction type features high resistance to dirt particles and is ideally suited to vacuuming wet and dry mediums
- The integrated Intercooler system assures a consistently low temperature for the service water, even in the case of high exterior temperatures, continuous operation is possible and even extended vacuuming jobs in the end, vacuum range result in no overheating of the pump.
- WERNER liquid ring vacuum pump with a suction capacity of 3100 m³/h with maximum 0,85 Bar of continuous pressure
- 3 Stages of suction: low, medium and high
- Pneumatic type suction and drain valve
- Change-over valve pneumatically operated suction/pressure change
- Telescopic 360° suction boom with a lifting angle of 45°, a reach of 2,95-4,4m and operation from a Central Operation Panel



Vacuum System Technical Data

Vacuum Pump Model	VPC 80		
Max. Air flow in m ³ /h	2100-3100 m ³ /h	Weight in Kg	408
Max. Air flow in cfm	2354 ft ³ /min	Weight in lbs	899
Max. Vacuum rate in %	85 %	Length mm	1247
Max. Vacuum rate in Hg	25.4	Length in	49.0
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

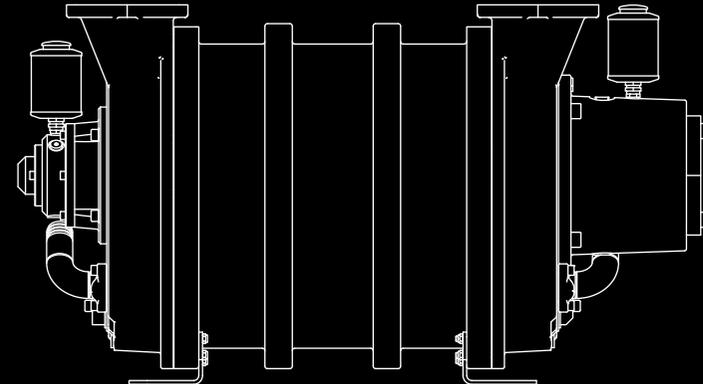


Fig. 3

TECHNICAL SPECIFICATIONS AND EQUIPMENT



High Pressure System

- The WERNER High-pressure water pump is hydraulically driven that directly converts oil pressure into water pressure.
- Pressure and flow rate can be set independently from one another.
- The piston of the KDU is very slow, thus can run dry safely and is impervious to soiled water.
- The few moving parts assure exceptionally quiet running and low-noise operation.
- WERNER High pressure water pump with the operating capacity of 350 l/min and operating pressure of 205 Bar
- Continuous filter cleaning with use of a centrifugal pump and valve bank system
- Water reservoir for high pressure water pump
- Using the truck auxiliary output drive, the WERNER High-pressure pump is driven via a power and pressure controlled hydraulic pump



High Pressure System Technical Data

High Pressure Pump Model	HPT 70		
Max. Water flow in L/min	500	Length mm	2127
Max. Water flow in US 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 Kg	285		
Weight lbs	628		

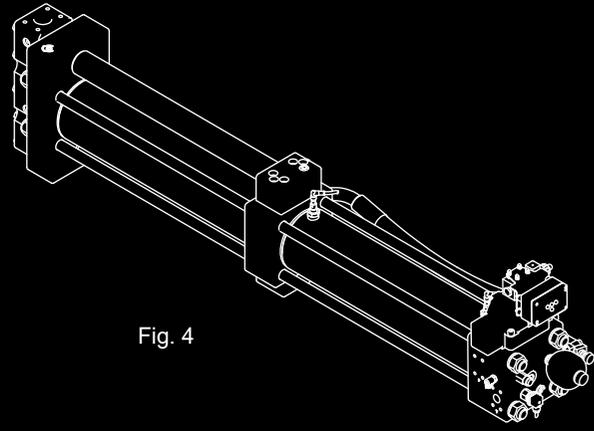
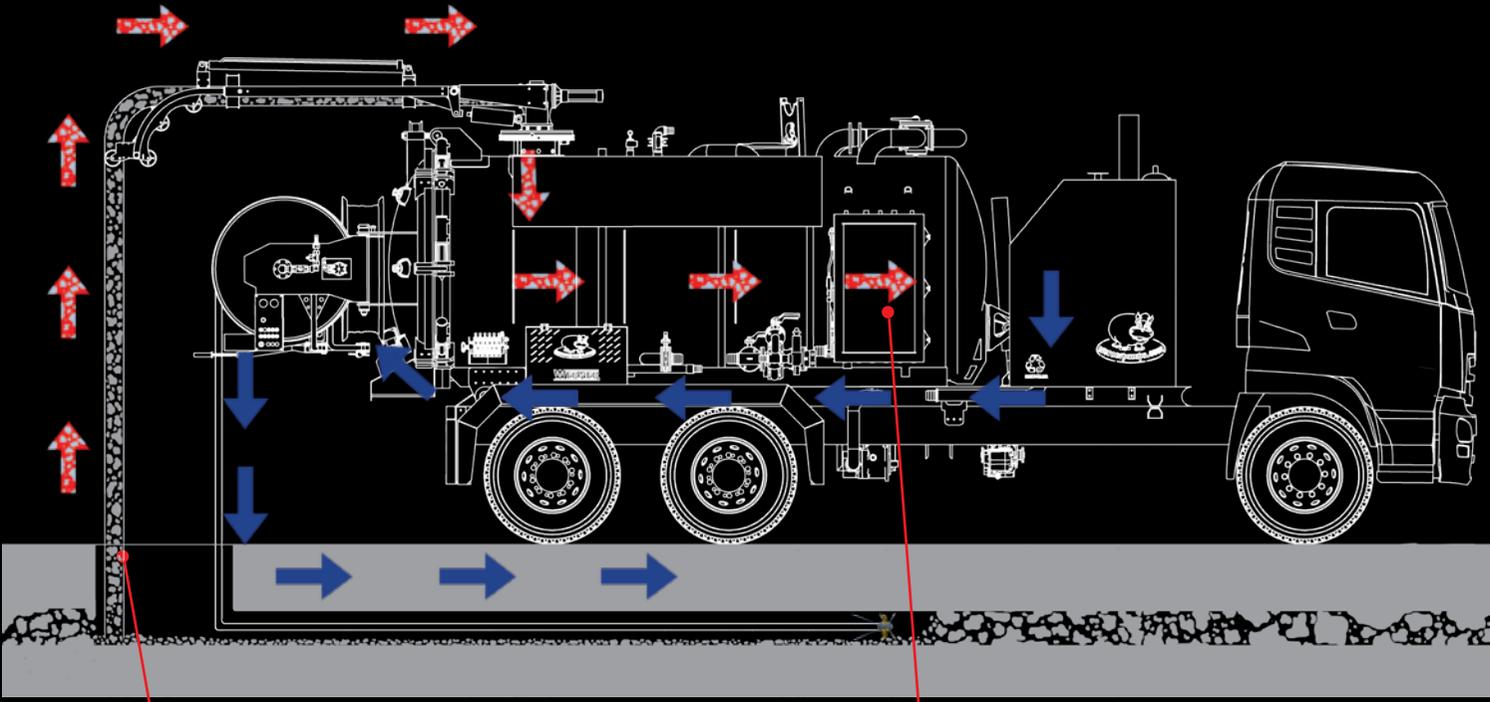


Fig. 4



WATER RECYCLING SYSTEM



Vacuuming

- The material flushed into the manhole is extracted by means of the vacuum system, solids and water are thus conveyed by the suction hose into the sludge tank.

Combined Sewer Cleaning

- Flushing and vacuuming can be performed simultaneously.

Recycling

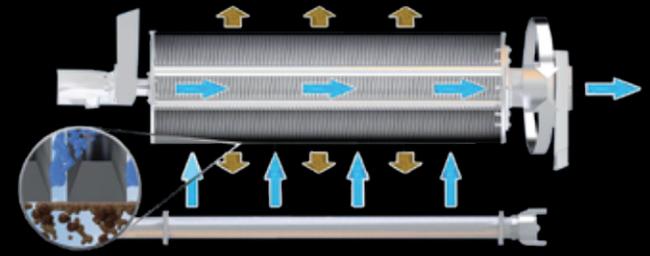
- Water and solids are separated in the sludge tank, where the filtered water is reused for flushing purposes via the high-pressure water pump.

Flushing

- A high-pressure hose with a sewer flushing nozzle is fed into the soiled sewer, where the high pressure jet dislodges the dirt, and flushes the dirt to the manhole, at the same time, the water jet pushes the hose further into the sewer.

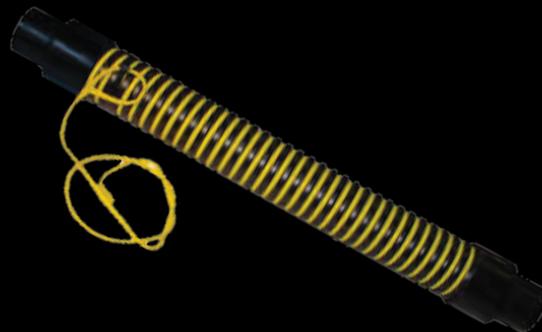
Water Recycling System

- The centerpiece of the water recycling system is an oscillating rotary filter drum, built into the front part of the sludge tank, this one stage filter system separates solids from sewer water.
- The filtered water is channeled directly (without settling basin) to the pressure transformer for further flushing processes.
- A multi stage filtration system is not needed if the WERNER High-pressure pump is used, this reduces body weight and reduces cleaning and maintenance.
- Back-flushing in continuous operation in sewers featuring a high grease content and extreme soiling.
- The WERNER Amanzi Recycling Unit has the capability to save approx. 61,320,000 L of water per year.
- Waste gas and noise emissions are substantially reduced due to fewer retanking and waste depot runs.





NOZZLES & HOSES





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WERNER
WERNER SOUTH AFRICA PUMPS & EQUIPMENT (PTY) LTD

Sebastian Werner
4-6 Edison Road, New Era, Springs
Republic of South Africa
P.O. Box 11052
Selcourt, Springs, 1567

Cell: +27 (0) 82 455 5522
Tel: +27 (0) 11 362 6280
Fax: +27 (0) 11 362 6797
E-mail: sebastian@wernerpumps.com
Website: www.wernerpumps.com

Managing Director

Pipeline Cleaning
Sewer Cleaning
Storm Water Cleaning
Drain Blasting
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