

# Rescue Rod (Pty) Ltd

## ALL PIPELINE'S UNBLOCKED FAST!!

### KAISER Aquastar Combination Units

Top Performance for versatile deployment and flexible applications

#### **Efficient performance**

The KAISER Aquastar offers a perfect combination of performance and versatility. The KDU high-pressure pump delivers water at a rate of 320 to 500 litres per minute (with a double KDU up to 800 litres) and water pressure of up to 200 bar. The large-size hose reel can accommodate a 300 m setting hose.

On the KAISER vacuum pump the maximum air throughput is 3100 m<sup>3</sup>/h (with a double KWP up to 6200 m<sup>3</sup>/h). Due to the selection of various suction booms, the vehicle can be optimally adapted to the respective implementation requirements.

#### **Versatility**

- With Rotomax, Aquastar represents a benchmark for the industry in the high performance recycling sector.
- With a folding partition, the vehicle can vacuum up and dispose of two different media.
- A dry vacuum device permits the pick-up of dry material while streets can be cleaned with high-pressure water from wash booms.
- The ADR equipment is used for the disposal of dangerous waste materials.

#### **Outstanding economy**

The radio remote control with feedback permits interactive dialogue with the components. The operating status is hereby monitored and the optimum power requirement automatically adjusted. All vehicle components are hydraulically driven via the truck engine. The consumer-optimised hydraulic system automatically controls the required engine power, reducing fuel consumption and noise emission.



## KAISER ECO-Combi

Reliable in the toughest conditions

### **Benchmark for water recycling**

The ECO-Combi impresses with its formidable performance data and ease of handling. The concept, specially geared to water recycling, turns the ECO-Combi into a high-performance recycler with a proven record in the toughest conditions.

Kaiser supplies the global benchmark for sewer cleaning with water recycling.

KDU, KWP and Rotomax form the powerful core elements of the vehicle. The maximum flushing rate amounts to 400 litres per minute, maximum water pressure up to 200 bar. The vacuum pump delivers a maximum air throughput of 2400 m<sup>3</sup>/h.

### **User-friendliness**

User-friendly operation assures safe handling and guarantees brief familiarisation periods.

Additional options, beside the main focus of water recycling, assure versatile deployment.



## KAISER pressure transformer – KDU: High-pressure water pump

### **Function**

The pressure transformer principle developed by KAISER has proved its worth for over 30 years as the perfect solution for cleaning sewers, especially when combined with water recycling. The KDU is a hydraulically driven highpressure water pump that directly converts oil pressure into water pressure. Pressure and flow rate can be set independently of one another.

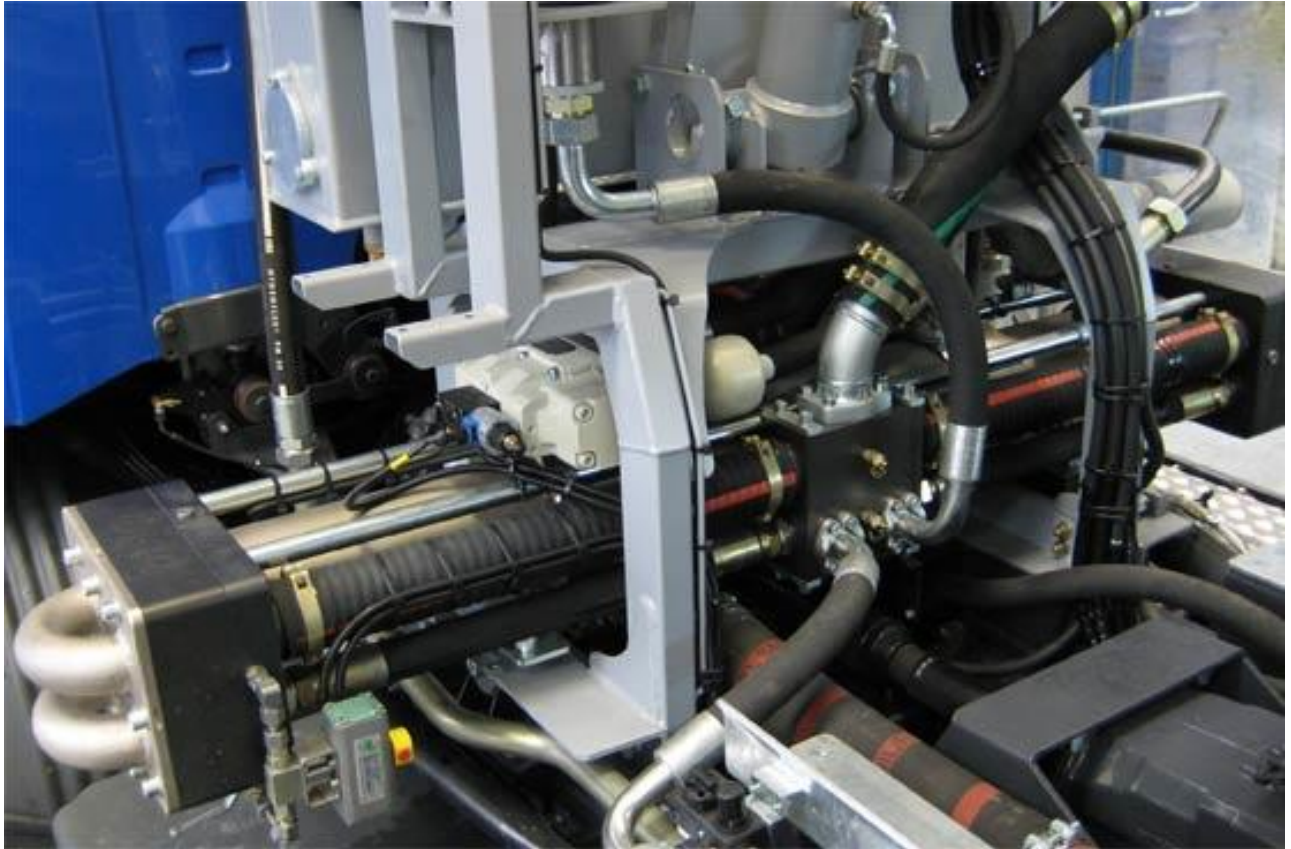
### **Outstanding level of efficiency**

Using the truck auxiliary output drive, the KDU is driven via a power and pressure-controlled hydraulic pump. The required power is adjusted to the different flushing jobs. In combination with flow-optimised, symmetrical line running, fuel consumption is perceptibly reduced.

### **Failsafe and low-maintenance**

In contrast to a high-pressure water pump based on the 3-piston plunger principle, the piston action of the KDU is very slow. The KDU can thus run dry safely and is impervious to soiled water. The few moving parts assure exceptionally quiet running and low-noise operation.

The valves on the water-side can be used repeatedly. Due to the hydraulic drive, maintenance on the mechanical drive is minimal. The water pressure is set and controlled on the hydraulic-side. A pressure control bypass valve, which is susceptible to wear, can thus be dispensed with on the high-pressure water side.



### Technical data:

<b>KDU high pressure pump</b>	<b>102</b>	<b>148</b>	<b>2x148</b>
max. water flow l/min	150	320/400/500	800
USgal/min	40	85/106/132	211
max. Arbeitsdruck bar	170	200	200
psi	2465	2900	2900

## KAISER water ring pump– KWP: vacuum pump

### **Function**

As early as the mid Eighties, KAISER developed the first water ring pump in a light construction for mobile application. In the KWP 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 contact-free rotor assures extremely quiet running and a long life cycle. The KWP causes no contamination of the pump exhaust air by lubricants and oils. The oil-bath bearings require no maintenance.

### **Lightweight and reliable**

The light construction increases the vehicle's useful load. The integrated Intercooler System assures a consistently low temperature budget 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 KWP.

### **Mounting in the fresh water chamber - patented**

By building the KWP into the fresh water chamber, additional natural cooling, frost protection via water insulation and reinforced sound insulation is achieved. The short suction lines to the sludge tank assure an optimum degree of efficiency. This construction type also permits vacuum/pressure operation when tilted.



## Technical data:

<b>KWP vacuum pump</b>	<b>900i</b>	<b>1600i, 2000i</b>	<b>2400i, 3100i</b>	<b>7000i</b>
Max. Air Flow in m <sup>3</sup> /h	900	1600, 2000	2400, 3100	7000
Max. Air Flow in cfm	530	943, 1178	1414, 1825	4120
Max. Vacuum Rate in % (in Hg)	90 (26.6)	90 (26.6)	85 (25.1)	80 (23.6)
Max. Pressure in bar (in PSI)	1 (14.5)	1 (14.5)	1 (14.5)	1 (14.5)
Weight in kg (lb)	95 (209)	180 (397)	210 (463)	650 (1433)