

RECycler®

Recycling system with continuous operation



J.Hvidtved Larsen A/S



The RECYcler® concept

With a RECYcler® you have a flexible high-tech tool. The unit is especially developed for carrying out heavy jetting jobs in which the fully automatic cleaning process ensures continuous recycling of the jetting water. In addition to its primary function as a recycling unit, the RECYcler® may also work as a regular sewer cleaning tanker for large and small jobs.

This flexibility makes the RECYcler® particularly suitable for all types of companies within this line of business.

The basic recycling unit is developed according to the same principles as our FlexLine® and MaskoFlex®, and it is thus based on our well-tested sewer cleaning technology. This also means that the basic unit has been prepared for the entire range of extra equipment from J. Hvidtved Larsen A/S.

The RECYcler® concept has been developed with focus on work environment, functionality, design, economy and of course quality.

Designation

RECYcler® 414

The first number = number of axles (4) ←

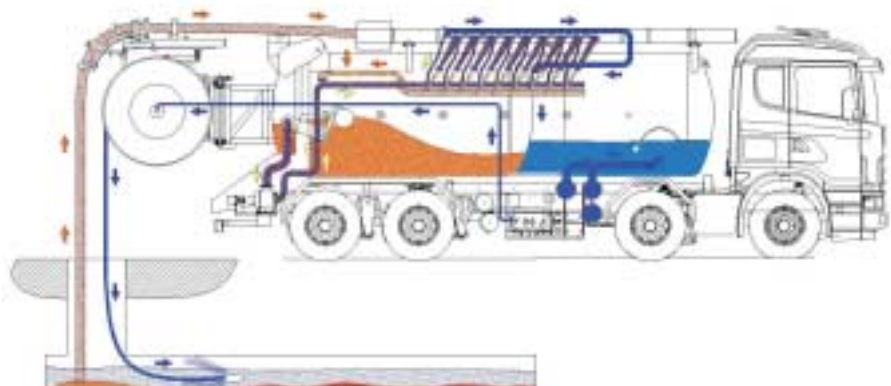
The two last numbers = the tank volume (14 m³) ←

Tank/partition

The tank is divided into two compartments: One compartment for water and one compartment for raw sludge. A movable partition is mounted in the tank. The partition is moved by means of vacuum or pressure from the compressor. The partition has 3-4 pre-set positions.

Water cleaning process

Simultaneously with the high-pressure operation, the used jetting water is led back into the tank together with the liberated particles. The polluted water is pumped out of the sludge tank and will then go through a continuous three-step cleaning process which ensures the supply of jetting water in order to continue working without any interruptions.



Standard RECycler® 414

A basic RECycler® has the following equipment:

- A fully automatic three-step recycling unit consists of a level controlled strainer filter mounted in the sludge tank, cyclone filters mounted at the side of the tank and a rotating strainer filter mounted in the water tank.
- High-pressure pump, type: URACA 716, 390 litres/min. at 140 bar or 333 litres/min. at 170 bar or 115 bar.
- A large jetting hose reel mounted at the back. The hydraulically operated hose reel is equipped with 150 m $\frac{5}{4}$ " (or 1") jetting hose.
- A small hose reel at the right-hand or left-hand end. This hose reel is also operated hydraulically and is equipped with 60 m $\frac{3}{4}$ " and 50 m $\frac{1}{2}$ " jetting hose.
- Vacuum pump, type: RFW 200: 20.600 litres/min. or RFW 260: 26.000 litres/min. A float ball combined with a cyclone filter protects the vacuum pump.
- A PLC control, which ensures soft start of pumps as well as control of rpm, water pressure and the fully automatic recycling process. The PLC control thus lowers the fuel consumption.
- A control panel mounted at the back of the vehicle and a control panel mounted to the rear on the side of the vehicle.
- Fully automatic end cover.
- One twin cabinet on one side and one tool shelf.
- One open shelf at the bottom on the other side.
- One open shelf at the top on both sides.
- One work lamp and three beacon lights.

Please refer to the table of available extra equipment on the back of this brochure.



The cyclones on the side of the tank are step 2 in the three-step cleaning process.



Large jetting hose reel equipped with 150 m $\frac{5}{4}$ " jetting hose and automatic hose control (hose control is extra equipment).



High-pressure pump, type: URACA KD 716G, 391 l/min. at 140 bar, 333 l/min. at 170 bar or at 115 bar. For other types, please refer to the backside of the brochure.



Vacuum pump, type: Wittig RFW200: 20.600 l/min. For other types, please refer to the backside of the brochure.



Control panel from which a simple and userfriendly control of the vehicle is carried out. The control panel is made of stainless steel.



PLC, remote control, pneumatic and electric controls are gathered in one cabinet placed behind the cabin. This simplifies maintenance and faultfinding.



Remote control is normally delivered with 8 eligible functions and may be extended with 3 extra functions. (The remote control is extra equipment).



A comfort cabinet consisting of one clothing cabinet and one sanitary cabinet equipped with a water tank, a water heater, soap dispenser and a paper towel dispenser. (The comfort cabinet is extra equipment).

Recycling of water – greater effect in less time

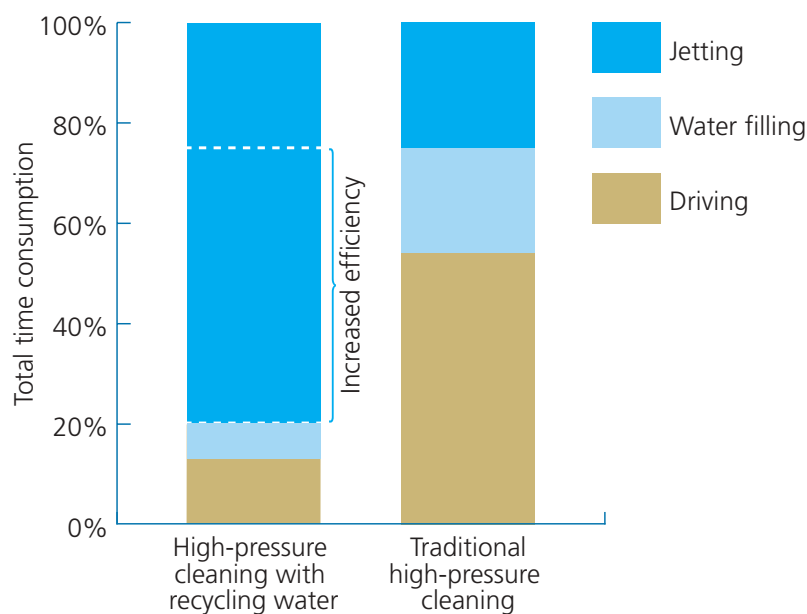
Efficient cleaning of sewer pipes requires significant amounts of water. Besides the consequences in connection with supply and costs, a high level of water consumption means that regular sewer cleaning tankers must go back and forth between the hydrant and the work site several times a day. Practically, this means that you spend three times as much time on refilling and driving as on the cleaning itself.

Three times better efficiency

With a RECYCLER®, where the water is sucked up from the sewer pipe again, strained of sludge and recycled for cleaning, the RECYCLER is able to yield efficient high-pressure cleaning with up to three times better use of the unit than with a regular sewer cleaning tanker. The environmental strain is also decreased because regularly you only have to drive once a day with a full load from the hydrant instead of up to 3-4 times with a regular sewer cleaning tanker.

Recycling of water means both greater efficiency and lower costs:

- A larger number of cleaned metres per day through more efficient cleaning with a larger amount of water because there are no limits as to how much water you use because the unit is designed for continuous operation.
- Completely self-sufficient and fully automatic water cleaning system.
- Decreased environmental strain and lower costs due to lower fuel and water consumption.
- Longer efficient working hours due to less time spent on driving and refilling.
- Level controlled cleaning filter built into the sludge tank ensures full use of the tank capacity.
- Flexibility. Can also be used as a regular sewer cleaning tanker for both large and small jobs besides as a RECYCLER®.



Always prompt after-sales service World-wide service net

J. Hvidtved Larsen A/S conducts general maintenance and repairs in our workshops. However, these workshops are also part of the world-wide service net which, together with our journeymen, reduces the waiting time in case of sudden breakdowns in the field.



Type	RECyler® 414
Tank volume:	14 m ³
High-pressure pump:	Type Uraca KD 716, 391 l/min. at 140 bar, 333 l/min. at 170 bar, 333 l/min. at 115 bar
Vacuum pump:	Type RFW200, cyclone filters in front of tank – piping Ø102 pipes
Transmission:	High-pressure pump belt driven, vacuum pump and equipment hydraulically driven
Bottom frame:	One twin cabinet to the rear on one side, behind the tool shelf One open shelf at the bottom on the other side One open shelf on top on both sides
Electricity	One work lamp and three beacon lights
Hoses	Hydraulically operated hose reel, manual swivel, 50m ¾" + 60m ½" Hydraulically operated hose reel, hydraulic swivel, 150 m 5/4" or 180m 1"

	Possible extra equipment
High-pressure pump	URACA P3-45, 471 l/min. at 150 bar
Vacuum pump	RFW260, 26,000 l/min.
Cassette system 4"	Cassette system for 4" suction hose with hose guide Double telescopic arm and hydraulic lift for 4" cassette system
Cassette system 5"	5" system instead of 4"
Pneumatic control	Pneumatic control of locking bolts for partition Pneumatic control of one or two suction valves 4"
Fold-down suction hose reel	Fold-down suction hose reel for 50 m 3" suction hose
Transport reel	Transport reel including 50 m 3" suction hose mounted on the back of the vehicle or on the side
Comfort cabinet	One comfort cabinet made of aluminium, placed in the right-hand side, consisting of one clothing cabinet and one sanitary cabinet with water tank, water heater, soap dispenser and paper towel dispenser
Cabinets	Extra cabinets
Heat in cabinets	Heat in cabinets and possibly in comfort cabinet
Hose control	Hose control for large hose reel
Hose reel (½")	Hose reel equipped with 50 m ½" jetting hose instead of standard ¾", manually operated, no swivel
Oil burner	Oil burner mounted in box in front on the right-hand side, heated water may be circulated in the jetting water system. Available as 9kW and 30 kW
Remote control	Remote control with 8 functions (possible to add extra 3 functions)
Work lamp	One extra work lamp
Ladder	Ladder mounted
ADR	The vehicle is equipped with the Danish approval to transport hazardous waste behind the partition.
Chassis	Optional (Scania, Mercedes, Volvo, MAN...)
Lift	Either manual lift or manual/hydraulic lift



Lokal forhandler: