





Revive

SUPERWARRIOR 16-4

Unit Imagery - Please note: Chassis type may differ.





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Tank

Volume:	16 m ³ water and/or sludge. Approved for 98% vacuum with 0.5 bar of positive pressure.
Moveable Piston:	A moveable piston with manual and automatic controls, four separate locking positions allowing for complete flexibility between the water and sludge compartments.
Manhole:	1 x manhole placed inside the moveable piston.
Locking Pins:	Manual locking pins fix the partition into three separate positions. The piston moves forward and backward in the tank using pressure from the vacuum pump.
Pressurised Air-Gasket:	To avoid cross-contamination between the clean water and sludge compartments an air gasket, similar to a large rubber tyre, is fitted to the unit. The air-gasket can be inflated and deflated from the main control panel to allow movement.
Fully Opening Back Door:	The back door is fully hydraulic and opens fully. A safety bar to support the door while open is supplied as standard with the Revive Warrior.
Ball Valves:	1 x 4" top suction, pneumatically operated. 1 x 6" bottom suction, manually operated. Inside the tank there is a vertical stone/debris trap placed on the top suction inlet/outlet this assists the holding back of solids and allows for decanting.
Slops Tray:	All Revive Warriors are fitted with a complete 316 stainless steel slops tray, to allow for washing out and cleaning the rear portion of the tank without contaminating the chassis.
Sludge Level Indicator:	At the end of the sludge compartment, a float ball and pointer indicate sludge levels to the operator.
Water Level Indicator:	A transparent hose indicates water levels via a floating red ball.
Tank Material:	All Revive Warrior tanks are made from 8mm P265GH high-grade boiler plate steel to ensure a working life in excess of 20 years.
Optional Extras:	Automatic locking pins (See final page).



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Control Panels

PLC:	Siemens S7-1200 PROFINET.
Control Panel Surround:	Sealed stainless steel boxes.
Control Panels:	<p>The complete operation of the sewer cleaning tanker (vacuum pump, high-pressure pump, position of partition, etc.) is conducted from the control panels. One control panel is mounted at the back of the tanker and one on the kerb-side.</p> <p>All buttons are equipped with local language text.</p>
Pneumatics:	Reverser for pressure/vacuum, front/rear tank, feed pipe for the high-pressure pump, jetting valve, bottom drainage for the front compartment, partition, water filling.
Remote Control:	All Revive Warriors are fitted with 16-function remote control system as standard. These systems are individually paired to each unit and their functions are isolated to each vehicle.

Independent Telescopic Cassette Arm

Type:	Independent telescopic cassette arm, available with 4" - 6" hose. Completely hydraulic, operated by local or remote control. Operates independently from the large hose drum.
Extension Range:	3m extension range.
Vertical Lift:	2m extension range.
Operation:	220° operation zone. Manually operated and controlled remotely.



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High-Pressure Pump

Type:	URACA KD718G.
Capacity:	333 l/min at 170 bar (103 kW).
Hose Reels:	1 x Hydraulically operated hose reel with 200m x 1" thermoplastic jetting hose with hydraulic swivel. 1 x Hydraulically operated hose reel with 50m x 3/4" and 60m x 1/2" black rubber jetting hose with hydraulic swivel.
Radar Water Level Sensor:	The pump will switch off automatically when the amount of water in the tank is reduced to a minimum level. The remaining water can be used by manually activating the switch on the control panel. The running hours of the high-pressure jetting pump is registered on an hour counter on the control panel.
Pressure Relief Valve:	A pressure relief valve (PRV) is installed alongside the pump to protect it from excessive pressure levels.
Water Filling:	Vacuum assisted water filling, remotely operated to assist with filling process and to achieve optimal flow rate.
Operation:	V-belt drive pulley.
Optional Extras:	Water heater (See final page).

Vacuum Pump

Type:	Jurop PVT 400 (Oil Free/Environmentally Friendly).
Capacity:	43,300 l/min at 93% vacuum (100 kW). System set to MAX 98% of continuous vacuum.
Protection of Compressor:	Two mechanical float valves, one placed in the top of the end cover and one placed inside the cyclone, prevent the sludge from entering the compressor if the tank is full. A filter unit in the pipe system protects the compressor.
Piping:	4" or 5" piping with high-spec pneumatically operated valves.
Vacuum Pump Operation:	Hydraulic transmission.
Optional Extras:	Vacuum pump hydraulic boost (See final page).



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Cassette System

Cassette System:

Cassette tray, integrated with suction hose system, offers effortless operation along entire tank length. Anodized aluminium construction provides lightweight durability and accommodates 4" or 5" hoses.

Smooth extraction with U-curve ensures optimal functionality. Limit switches guarantee proper hose operation for enhanced reliability and efficiency.

A hydraulically operated roller system, mounted as an integrated part of the cassette, pull/draw the suction hose.

At one end of the cassette, the hose is connected to the top of the sludge tank through a socket and the pneumatically operated cassette suction valve.

At the other end of the cassette, the hose is guided by rollers to an independently operated telescopic arm.

The suction hose (4" or 5") may be lowered to a depth of 10 metres.

The suction hose is fitted with a coupling, at both ends, that enables the operator to attach suitable hose extensions.

Transmission

PTO Drive System:

The Revive Warrior utilises a three-shaft PTO system.

Engine PTO (EDPTO):

Drives the hydraulic transmission for the vacuum pump.

Gearbox PTO (EGPTO 2x):

Independently driven auxiliary pump for hydraulics on the first shaft. Jetting pump (via prop-shaft and V-belt pulley transmission) on the second shaft.

Transmission Cooling:

All Revive Warriors have an extra hydraulic cooling system piped throughout the tank. This system reduces the risk of overheating during long-term and continuous operation.

Auxiliary Hydraulics:

For powering of suction cassette, end cover, hose reels, etc.



Cabinets & Shelves

Cabinets:	1 x Hot hand wash facility. 2 x Double storage cabinet made of high-grade aluminium, placed at the kerb-side, rear end. Lockable.
Shelves:	1 x Hose shelf, placed on the kerb-side to allow for storage of vacuum hosing. 1 x Tool shelf, placed between the two lockable storage cabinets, kerb-side. 1 x Hose shelf, placed on the road-side to allow for storage of vacuum hosing. 1 x Long, lower hose shelf, placed on the road-side to allow for storage of vacuum hosing.
Cone Holder:	1 x Cone holder to allow for storage of coupling, road traffic cones and trash. Predominantly made from 2.5mm aluminium.
Additional Storage:	Extra cabinets can be supplied based on customer needs.

Lights

Work Lamps:	6 x LED work lamps.
Beacon Lights:	4 x beacon lights.
Side Lights:	6 x LED sidelights with built-in reflectors.

Finish

Cabin Colour:	Scania Ivory White.
Tank Colour:	Scania Ivory White.
Cabinets & Shelves:	Painted with high-spec PU paint, high-grade aluminium.
Slops Tray:	304 stainless steel, polished.
Sign Plates:	Painted, high-grade aluminium sign plate on each side of the tank.
Mudguards:	2 x Sets of plastic Scania mudguards.



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USB Nozzle Box Set

- USB Nozzles (x5):** The Revive Warrior comes with a USB Nozzle Box Set, as standard.
- Combinator 3D:** This nozzle offers the best combination of traction force and cleaning.
Insert angle: 15°/25°.
Thread size: G 1".
Recommended pipe diameter for use: 8" - 32".
- Quattro Nozzle:** This nozzle has 6/5 inserts that offer powerful penetration.
Insert angle: 0°/15°/20°.
Thread size: G 1".
Recommended pipe diameter for use: 6" - 20".
- Factory Ball Nozzle:** This nozzle has 6 inserts with a forward facing jet.
Insert angle: 25°.
Thread size: G ½".
Recommended pipe diameter for use: less than 6".
- Factory Ball Nozzle:** This nozzle has 6 inserts without a forward jet.
Insert angle: 25°.
Thread size: G ½".
Recommended pipe diameter for use: less than 6".
- Cleaning 3D Nozzle:** This nozzle has 6 inserts and offers powerful cleaning.
Insert angle: 15°/25°.
Thread size: G ½".
Recommended pipe diameter for use: less than 8".



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Hose & Couplings

- Hose:** 2" Coupling for water filling hose.
1 x 1m length of 3" hose with coupling for cleaning the filter unit.
1 x 1m length of 5" pipe fitted with air-intake nozzle.
- Frost Protection:** Winter blowout kit.
- Prop:** Rear door prop.

Approvals

- General:** All Revive Warrior vehicles are CE-marked.
All Revive Warrior vehicles are furnished with product liability insurance.

Chassis

- Chassis Type:** See attached Scania Spec Sheet for full details.



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Additional Extras (Chargeable; Ask for more information)

Water Heater:	Webasto Thermo Pro 90 Diesel Heater. Heated circulation system to defrost the jetting pump during cold weather operation. 9 kW diesel heater.
Circulation Pump:	Strocco high-flow 24V circulation pump. Flow capacity – 7000 l/h @ 0.4 bar.
Vacuum Pump Boost:	Additional control which allows flow sharing from the auxiliary hydraulics to the vacuum pump hydraulic transmission. Allowing the operator to achieve maximum power on vacuum pump even on lower engine revs (more vacuum with less noise and fuel consumption).
Transport Reel:	Additional hydraulically operated transport reel integrated with the Revive automation system, carrying up to 50 m of 4" cassette hose.
Automatic Locking Pins:	Pneumatically operated locking pins with automated control. Allowing for faster and more comfortable operation when moving the piston.



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