RESCUE ROD'S AIR DISPLACEMENT UNIT MODEL MEGAVAC LOADER 8000 EVO WET & DRY VACUUM

PRESSURE/VACUUM TANK

- Volume : approx.13.400 litres, incl. the filter room.

- Diameter : Ø 1.900 mm.

- Material : stainless steel AISI 304 grade.

- Suction connections : 6" block flange, provided with 6" connection with coupling

as desired on the left hand side, as close to the front as possible, equipped with bended inner rising tube, pointed to the rear, with interchangeable Hardox 400 wear plate.

- Provisions : opening rear door with hydraulically operated clamps,

tipping angle 100°,

manhole size Ø 500, with manually operated clamps, which

can easily and quickly be opened/closed,

: cylinder for opening the rear door, provided with hose

rupture safety valve,

: chute at the rear end till approx. 50% of the tank height, as

far to the rear as possible, on behalf of free unloading.

Including : level indicator.

PED APPROVAL

- Direction : Pressure Equipment Directive according to EN 97/23/EG.

- On behalf of : all pressure equipment with a positive pressure over 0,5

bar.

- Purpose : elimination of technical trade impediments by

harmonization of legislation of the EU member countries

(by CE marks),

: replacement of Dutch laws with regard to pressure

equipment in the construction phase,

: preservation of the present safety level.

AIR FILTER SYSTEM

Execution : closed vacuum/pressure resistant filter system, integrated

in the front part of the pressure/vacuum tank, provided with a quickly removable filter kit with separately removable filter bags made of polyester needle felt, total filter surface

40 m²,

- Execution : Air Shock system for cleaning the filter bags, controlled by

a pulse time interval switch, adjustable on the control

panel.

- Filter cover : to be opened hydraulically and to be locked manually.

- Including : level detector model soliphant on a Clampstuz flange.

- Model : cylindrical.

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RESCUE ROD'S AIR DISPLACEMENT UNIT MODEL MEGAVAC LOADER 8000 EVO WET & DRY VACUUM

FILTER CARRIER FRAME

Material : galvanized steel.

CONTAINER FRAME

- External dimensions : in accordance with standard 20" ISO container frame.

- Length : 6.000 mm. - Width : 2.440 mm.

Including : container handling system.

DIESEL ENGINE

- Brand/model : Caterpillar C9 ACERT® DIT ATAAC IND.

- Emission standard : TIER 3.

- Execution : 6-cylinder, 4-stroke engine.

- Power : 241 kW (328 HP at 1.800-2200 r.p.m.).

- Provisions : fuel filter system,

exhaust, provided with spark arrestor,

engine supports, electric system 24 Volt,

cooling system with safety device, oil lubrication system with safety device,

gel batteries,crankshaft flange.

FUEL TANK

- Volume : approx. 300 litres.

IncludingLocationlevel indicator on the control box.on the left hand body side.

SOUND INSULATED HOOD

- Material : stainless steel AISI 430 grade, internally provided with

insulating material.

- Provisions : access door on two or more sides.

- Blower provisions : inlet/cooling air and exhaust silencer, on behalf of optimal

sound-proofing.

- Location : in front of the pressure/vacuum tank.

RESCUE ROD'S AIR DISPLACEMENT UNIT MODEL MEGAYAC LOADER 8000 EVO WET & DRY VACUUM

MAX. LEVEL CONTROL/SHUT OFF SYSTEM

- Execution : pneumatically operated butterfly valve.

- Action : when reaching the maximum level in the pressure/ vacuum

tank and when disengaging the blower, the butterfly valve

will be shut automatically.

- Signal : by means of a claxon when the maximum level is reached.

By pushing a bridging button, the control system is by-

passed, so the suction hoses can be sucked empty.

Level detector : electronic.

TIPPING CYLINDER

Location : in front of the pressure/vacuum tank.

- Tipping angle : approx. 45°.

BLOWING COVER

- Model : high pressure vessel head with reinforcement frame,

: fully opening with adjustable hinges.

Opening : hydraulically.

- Opening angle : 125°.

- Tightening : absolutely tight against the rubber profile at a groove at the

tank rear end.

- Blowing system : welded construction, provided with 5" Perrot spout and a

removable stirring cone.

- Provisions : ejector,

: 3 butterfly valves for air dosing,

: 6" ball valve.

: 3-way proportioning valve,

: separable Perrot coupling,

: cleaning openings with Storz coupling on behalf of flushing

the whirl cone internally,

: removable stirring plate,

hatch on the lower end, which can be combined with a DN

300 unloading valve (optional equipment),

: hose rupture safety valve.

- Including : free air inhaling butterfly valve in the piping, which opens

during blowing,

: shut off valve for the cooling air inlet in the piping on behalf

of blowing activities.

- Remark : faced to the left.

VACUUM PUMP

Type: Kaeser full vacuum 3-wing Roots type blower with pre-inlet.

RESCUE ROD'S AIR DISPLACEMENT UNIT MODEL MEGAYAC LOADER 8000 EVO WET & DRY VACUUM

- Capacity : max. 8100 m³/h.

- Positive pressure : max. 1.050 mbar at 1500 r.p.m. ± 10%.

- Negative pressure : 0,9 bar.

- Power consumption : approx. 212 kW.

- Drive : mechanical from the diesel engine by means of a

crankshaft with bearing blocks and tensioner,

heavy coupling sleeve.

- Provisions : silencers for inlet, outlet and cooling (pre-inlet) air, with

stainless steel inside,

: sound insulating housing,

electronic temperature protection switch,mechanical under and over pressure protection,

: safety filter in the suction damper.

Location : on top of the diesel engine.

PIPING

- Size: DN 200 (8").

- Provisions : mechanical overpressure protection,

mechanic underpressure protection,

free air butterfly valve, which opens during blowing,shutoff valve cooling air inlet on behalf of blowing.

ELECTRIC CONTROL

- Location : in the tool box, integrated on the left hand body side.

- Material : stainless steel.

- Safety class : IP 65.

- Purpose : protection of the blower,

: switching from suction to blowing,

: mechanical rpm control of the blower by means of

electronic throttle control.

Wiring : double insulated with protective pipe.
Remark : switch by means of SPS control.

Including : multiple socket.

HYDRAULIC SYSTEM

- Location : on the left hand body side, as far to the rear as possible.

- On behalf of : tipping the pressure/vacuum tank,

: opening/closing the rear door and filter cover,

: hydraulically operated rear door clamps.

- Provisions : hydraulic pump directly onto the p.t.o. connection on the

diesel engine,

: oil tank, provided with return filter, filling/bleeding cap, sight

glass and drain valve.

PNEUMATIC SYSTEM

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RESCUE ROD'S AIR DISPLACEMENT UNIT MODEL MEGAVAC LOADER 8000 EVO WET & DRY VACUUM

On behalf of : actuating the pneumatically operated butterfly valves,

actuating the pneumatically operated valves.

Including : air tank.

HOSE BOX

Material : unpainted stainless steel AINSI 304 grade.

- Execution : Koks model.

- Dimensions : as long as possible.

Location : on the right hand body side.

- Provisions : large drain holes.

Excluding : hoses.

TOOL BOX

- Material : unpainted stainless steel AINSI 304 grade.

- Execution : lockable by means of a cover with countersunk lock.

Location : on the left hand body side.

WORKING LIGHT

Location : on the rear door.Operation : from the control box.

BODY PRESERVATION

- Pressure/vacuum tank : carbon steel parts: shotblasted and provided with a primer

coat,

stainless steel body parts: stained and passivated.

- Remaining steel

body parts : shotblasted (with exception of the galvanized parts) and

provided with a primer coat.

Finishing coat

remaining parts : container frame: 2-compound paint in one desired standard

RAL colour.

: body: 2-compound paint in one desired standard RAL

colour.

- Stainless steel

body parts : stained and passivated.
- Excluding : advertisement text.

GENERAL

TECHNICAL DESCRIPTION RESCUE ROD'S AIR DISPLACEMENT UNIT MODEL MEGAVAC LOADER 8000 EVO

WET & DRY VACUUM

- Tank inspection : Pressure Equipment Directive (PED) (97/23/EC).

Body inspection
Manuals
taken care of by Koks Special Products.
operating instructions, drawings, schedules.



RESCUE ROD'S AIR DISPLACEMENT UNIT MODEL MEGAVAC LOADER 8000 EVO WET & DRY VACUUM

SAFETY PROVISIONS:

BEACON LIGHT

- Location : at the rear.

- Operation : from the control panel.

EMERGENCY STOP

- On behalf of : bleeding/aerating the vacuum system in case of an

emergency.

- Execution : pneumatically operated shutoff valve in the piping,

: push button on the control panel.

- Including : "BELUCHTEN" switch on the control panel.

HOSE RUPTURE SAFETY VALVES

On behalf of : rear door, filter cover and tipping cylinder.

SNAP-OFF PLATE SAFETY DEVICE

Location : on top of the pressure/vacuum tank.Provisions : rupture disc, size 65 mm, 1,5 bar,

: safety relief valve, size 1½", 1,5 bar,

: pressure gauge 0/+4 bar.

EARTH REEL

Execution : manually operated.Cable length : approx. 25 metres.

- Provision : earth clip.

- Location : to be agreed in consultation.

WALKWAYS/NAMEPLATES

- Location : on both sides of the upper part of the pressure/vacuum

tank.

- Including : walkway on the left hand body side, on behalf of access to

the filter room and manhole.

LIQUID KIT (included):

DISCHARGE HATCH

On behalf of : unloading the dust settlings into the pressure/vacuum tank.

- Shape : elliptical.

- Size : adequately sized.

Control : hydraulically from the outside.

- Including : double electronic level switch for detecting the max. dust

settlings level (liquids and solids) in the pressure/ vacuum

tank and air filter system.

RESCUE ROD'S AIR DISPLACEMENT UNIT MODEL MEGAVAC LOADER 8000 EVO WET & DRY VACUUM

ADDITIONAL PROVISIONS:

DISCHARGE VALVE

On behalf of : unloading in BigBags.

- Execution : mounted on the blowing cover.

- Provisions : pneumatic DN 300 slide valve, on the bottom side.

DISCHARGE ASSISTANCE KIT:

PNEUMATIC VIBRATORS

- On behalf of : improved discharge of the (dry) substances.

- Quantity : 4 pieces.

- Location : 2 pieces on the pressure/vacuum tank,

: 2 pieces on the filter room.

- Control : pneumatic.

- Including : piping, control valves, etc.

SIR KIT FOR HANDLING DRY SUBSTANCES

GENERAL

- Attention : various SIR provisions have already been included in the

standard quotation, however in order to clarify these

subjects they are mentioned once again.

PED APPROVAL

- Directive : Pressure Equipment Directive according to EN

97/23/EG.

- On behalf of : all pressure equipment with an over pressure over

0.5 bar.

- Purpose : decontrolling technical trade by harmonization of

the legislation of the EU member countries (by CE

marking),

: replacement of the Dutch laws with regard to

pressure equipment in construction stage,

: maintaining the present safety level.

- Remark : mandatory with the application of a SIR kit in case

the vehicle is not ADR approved.

REAR DOOR CLAMP PROTECTION

- Remark : the rear door clamps can only be opened when the

pressure/vacuum tank is ventilated/aerated.

Operation : through an indicator on the clamp.

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RESCUE ROD'S AIR DISPLACEMENT UNIT MODEL MEGAYAC LOADER 8000 EVO WET & DRY VACUUM

- Signal : by means of a green light on the control box.

REMOTE CONTROL

- On behalf of : the vacuum system.

Provisions : control box with emergency stop function,

: cable, length 25 metres, with plug.

CLOSING THE REAR DOOR

- Purpose : operating the rear door closing function from such a

location, that the operator will always be able to

survey the vehicle rear completely.

- Including : two hands control for opening as well as closing.

EMERGENC STOP

- On behalf of : ventilating/aerating the vacuum system in case of

an emergency.

Execution : pneumatically operated shut-off valve in the piping,

: push button on the control panel,

: socket on the control panel.

- Remarks : the approaching switch near the ball valve of the

suction connection lapses,

: "TANK VENTILATION" switch on the control panel.

REAR DOOR BOLTING

- Clamps : hydraulically operated.

Including : two hands control for opening as well as closing.

REAR DOOR SAFETY PIN

- On behalf of : protecting the opened rear door from falling to

shut.

Execution : 1 position.

Provisions : pin with air cylinder,

: control button.

REPAIR CROSS BEAM

- On behalf of : safe repair jobs below the pressure/vacuum tank in

tipped position.

Location : underneath the pressure/vacuum tank.

TIP WARNING LIGHT

Location : in the cab.

Purpose : indication that the tank is in tipped position.

RESCUE ROD'S AIR DISPLACEMENT UNIT MODEL MEGAYAC LOADER 8000 EYO WET & DRY VACUUM

EARTH GROUNDING DEVICE

- Provisions : amplifier,

: green warning light "ready for use",

: red warning light "supply",

: output on behalf of switch relay.

WARNING LIGHT

- On behalf of : earth grounding device.

- Colour : green.

EARTH REEL

- Execution : manually operated.- Cable length : approx. 25 metres.

Provision