

LSP-900-V VACUUM LAVATORY SERVICE VEHICLE



*Photo may contain some options

DESCRIPTION

The LSP-900-V Vacuum Aircraft Lavatory Servicing Vehicle is designed to provide airlines and the airport servicing industry an all stainless steel unit for application on all current new generation aircraft. Engineered to the highest standards, the LSP-900-V series stands up to extreme weather and abusive ramp conditions. Improved design features simplified aircraft servicing, provides economical operation, reduces flight delays, cuts maintenance costs and minimizes risks of environmental hazard. The LSP-900-V vacuum waste extraction system offers significant advantages over conventional gravity drainage: it reduces servicing time by half; eliminate odors; simplifies servicing of aircraft with low lavatory outlets and quickly unclogs obstructed plumbing.

All pumping operation controls are performed from the front lifting platform in a safe environment. The operator's cab is rubber shock-mounted for a comfortable drive and provides excellent ramp visibility. This equipment allows aircraft servicing up to 5 m (16.4') height with 2.9 m (114") lift. The LSP-900-V complies with common international requirements and regulations.

STANDARD FEATURES

Engine

PERKINS: Diesel 2.2 liters, 35.7kW@2600RPM.

Emission: US EPA TIER3, EU Stage IIIA

Transmission

Powershift transmission with torque converter and oil cooler. Two forward and one reverse gears.

Speed

Max 25km/h

Steering

Assisted hydrostatic front wheel.

Turning radius: 7 m (23')

Fuel tank

Capacity 80L / 21 U.S. gallon

Hydraulic tank:

Capacity 80L / 21 U.S. gallon

Dynamic brakes:

Brake system on 4 wheels with booster.

Front wheels: Dry disks / Rear: Drums.

For maximum safety, front and rear break circuit are independent.

Parking brake: On rear wheels activated by cable from cabin

Hydraulic circuit

A gear pump provides the hydraulic fluid required for all operations: steering, lift controls and pumping.

Waste circuit

Telescopic rigid stainless pipe from tank to basket

Water pump group:

Stainless steel centrifugal self priming disinfectant pump with strainer and adjustable relief valve (3.5 bar (50 PSI)). Pump driven by hydraulic motor. Controlled from lifting platform.

Flow: 110L/min, Flow meter zero reset

Spring-loaded hose reel.

Front axle:

Large-size, with steering cylinder. Mounted on leaf spring.

Rear axle:

Drive axle mounted on leaf springs.

Disinfectant/waste tank set:

Tanks are stainless steel 304 with internal baffle; all inside fittings and weld joints have smooth finish and all inside corners are rounded 1" radius.

- Manual draining valve
- Level gage / visual level indicator
- 2 man holes Ø 500 mm (17")
- Filler neck and cap
- Internal spray for waste tank cleaning
- Effective Capacity:
 - Disinfectant: 1050L (278 U.S. gal)
 - Waste: 2250L (595 U.S. gal)
 - Vacuum coolant: 100L (27 U.S. gal)

LSP-900-V



Hydraulic circuit:

A gear pump provides the hydraulic fluid required for all operations: steering, lift controls and pumping

Electric equipment:

- 12 VDC system. 55 A generator power.
- 1 master switch
- 2 headlights. Stop lights. Back-up lights. Turning indicators. 1 working light.
- Fuel gage, hour-meter, E-switch in cab
- Safety interlocks to prevent vehicle from being driven while platform is raised.
- Platform movement warning buzzer

Lifting platform:

Stainless steel material with antiskid floor.

820 x 820 mm (32x32") / 200 kg (440 lbs) capacity.

Lift cylinders fitted with parachute check valves.

Emergency control device to lower platform in case of failure.

Lift controls:

Dead-man push-buttons for lift controls.

Controls: up/down/e-stop/pump controls.

Low disinfectant level indicator

Vacuum circuit:

Stainless steel vacuum pump compartment for easy cleaning and maintenance.

In-line strainer / full waste tank sensor to protect vacuum pump.

Telescopic rigid stainless pipe from tank to basket with electrically actuated valve.

Dump valve:

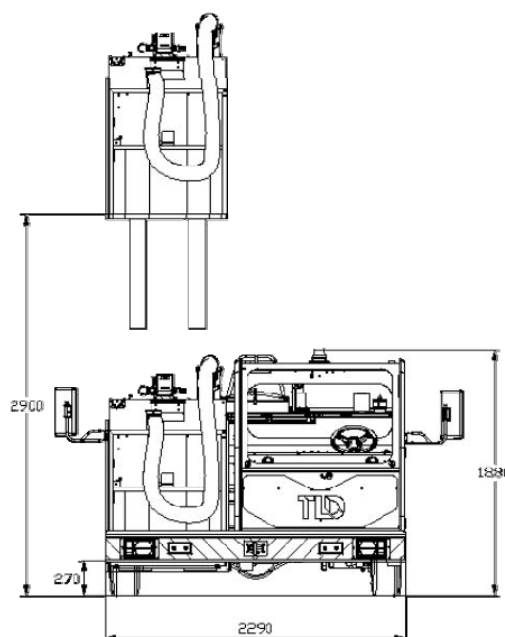
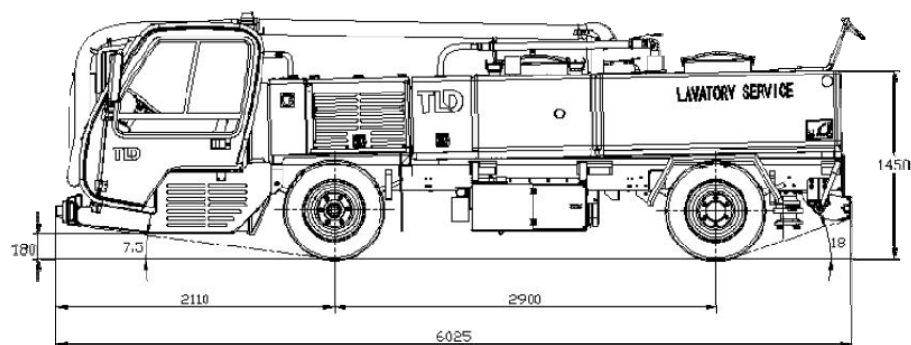
Large 4" diam. ball valve, 90° rotation, for fast dumping of waste

Flexible hose:

Premix flexible hose 1" diameter equipped with a connector.

OPTIONS:

- Air conditioner with padded cab
- Aircraft detection limit switches
- Break-away coupling
- Cold weather kit (down to -40°C)
- Detergent mixer (Dosatron)
- Emergency DC pump for steering purpose
- Powered dump valve
- Rear access stainless steel ladder
- Rear view video device.
- Safety interlock (to prevent driving when hose is not stowed)



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Specifications may be altered as a constant effort to improve performance.
Tolerances of data: +/- 5 %. Some views may show optional equipment.