

WSU3000 & 4500

Water Service Units

Technical Specification



Note: All images in this document are included for reference purposes only.



Chassis and Technical Data

Make & Model: MAN, Volvo, Iveco & others upon request

Engine: Diesel – Euro 3, 4, 5 or 6 depending on chassis and destination

Capacity: WSU3000: 3000L

WSU4500: 4500L

Water flow: up to 90 l/min

Water pressure: 2.75 bar (40 psi)

Note: Chassis GVW is depending on extent of winterisation and selected options

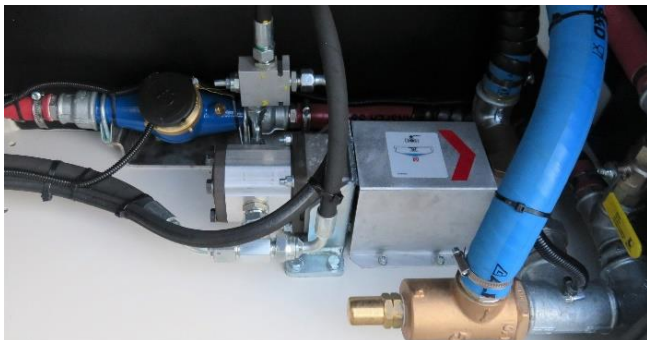


Water Tank Assembly

- Stainless steel (316 grade) tank construction with baffles
- Rubber mounting points between tank and chassis to absorb impacts and vibration
- Tread plate covering top of tank
- Bolted square access lids (x2) to allow for cleaning, disinfection & inspection
- Cam-lock water filling point coupling
- Water tank level gauge
- Calibrated water flow meter
- Stainless steel pedestal flexible impeller water pump
- 19mm flexible water delivery hose on spring rewind hose reel
- Appropriate aircraft connector on water supply hose
- Lever operated drain valve 50mm diameter

Electrics

- 24V DC relay system
- PTO hour meter
- Battery isolator
- Reverse buzzer
- Emergency stop located on dash and rear compartment
- Low water level sensor in tank
- Low water indicator light and alarm in drivers cab
- LED work light fitted at rear of driver cab & beacon on top of drivers' cab



Hydraulics

- Hydraulic pump
- Hydraulic oil tank c/w
 - - sight level gauge,
 - - shut off valve,
 - - magnetic drain plug,
 - - filtration system (return line filter & suction strainers)
- High pressure filter
- Steel reinforced hydraulic hosing



Safety Interlocks

- Cannot drive truck while PTO is engaged
- Cannot operate water pump when water level is low
- Cannot drive truck when lift basket is raised (Optional)
- Cannot drive truck unless water hose is stowed (Optional)
- Cannot drive truck with mains stand-by plug connected (Optional)

Manuals, Painting and Decals

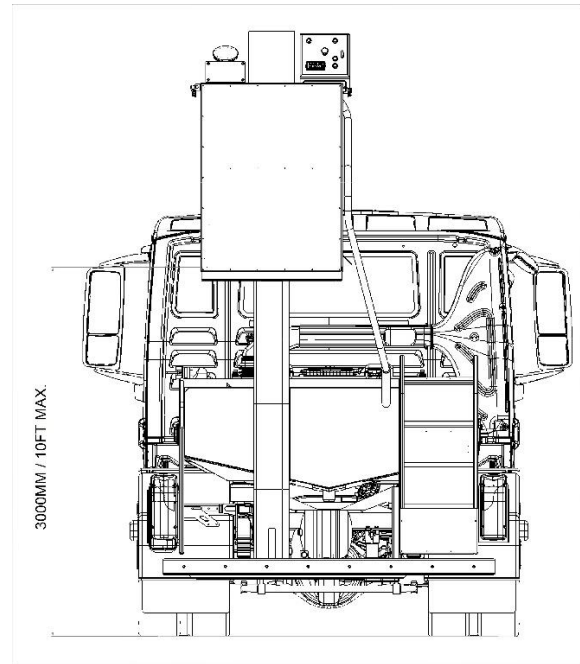
- Operating and maintenance manual in English language as soft copy and hard copy
- Electric & hydraulic schematics provided
- Label kit in English
- Machine colour in plain white to match chassis
- All fabricated parts are shot blasted and treated against rust with two coats each of long-life primer and topcoat PU paint

Standard Rear Configuration without Lift Basket

- Rear compartment with access steps to top of tank
- Hinged side access doors both sides
- Rear bumper step
- Digital water meter with zero reset function
- Water pressure gauge
- Water supply via manual actuated ball valve
- Hose reel located in compartment

Rear Configuration with Lift Basket

- Lift basket and rear compartment with hinged access door RHS
- Rear bumper step
- Control panel & digital water meter with zero reset function
- Water pressure gauge
- Water supply via manual actuated ball valve
- Hose reel located in lift basket



Rear basket lifting height of up to 3m

Rear Configuration with Lift Basket & Insulated Tank

- Lift Basket centred and rear compartments with hinged access doors on both sides
- Rear bumper step
- Control panel & digital water meter with zero reset function
- Water pressure gauge
- Water supply via manual actuated ball valve or on/off switch
- Hose reel located in rear compartment



Water Tank Assembly

- Storz, Albany or Todo water filling point couplings
- Water tank overflow anti-spillage valve
- Breakaway coupling for water hose
- Quick release man lid – 500mm diameter
- Drain tank and wash down pump to collect aircraft remaining water
- Dual water pressure (21psi and 50psi)
- Retractable hand rails around the top of the tank
- On-board water chlorination system

Options and Accessories

Chassis and General Assembly

- Hydraulic lift basket for operating up to 3m above ground level
- Reverse camera and monitor in driver cab
- Digital water fluid level indication in driver cab
- Wiper fitted to rear driver cab window
- Rubber check straps fitted to driver cab doors
- Brigade distance sensor system for front and/or rear bumper
- Wheel chocks, with or without storage holder
- Supply and fitting of customer logos



Winterisation

- Insulated water tank
- Day time diesel fuel heater for hot air circulation around tank
- Night time fuel heater for hot air circulation around tanks via mains electricity
- Residual water drain back via wash down pump
- Manual operated knife gate water drain valve
- NATO/Anderson jump start socket
- Battery charger
- Various heated elements e.g. in hydraulic tank