

WHALE TANKERS SPECIFICATION - CITYWHALE RANGE

7.5t CityWhale Major - Mitsubishi Fuso (EURO 6 - Six) - Baroclean

Type: CityWhale Major - Mitsubishi Fuso - Baroclean
: Whole Vehicle Type Approval - Directive 2007/46



Chassis: Mitsubishi Fuso Canter 7C15 7.5 Tonnes. 150 hp Payload 5000 kg.
Wheelbase 2.8 m. air conditioning Electronic management system to prevent over regimes.

Euro Emissions Level: EURO 6, 4-cylinder TDI diesel. ABS. 3 places.

Height Limit: NONE ADVISED by Customer - maximum height limit of 4 metres

PTO: PTO on the gearbox output 60 kW (to be ordered with the chassis)



1) TANK WITH FIXED PARTITION

- 2 Compartments with a total capacity of **3,800 litres**, made in aluminium 5mm thickness
- Cylindrical sludge tank with **3,000 litres** of capacity
- Water tank with **800 litres** of capacity

Cylindrical sludge tank with 3,000 litres of capacity

- One back door with total opening for cleaning & drain. Sealing by rubber and closing by four wheels mounted on two stainless steel rod
- One ball valve DN80, directly connected to pipe leading to the top of the tank
 - One ball DN 80 for the backflow
 - All ball valves are equipped with connection and blank cap
 - Two safety valves for pressure relief
 - Two safety valve for vacuum relief
 - One decanting valve 2'' in the middle of the sludge tank door with connection and blank cap
 - One vacuum breaker on the top of the tank
 - One safety float inside the tank with cleaning aperture
 - One visual level gauge
 - One wide discharge chute.

Water tank with 800 litres of capacity

- One quick filling cap Ø 150
- One visual water level gauge
- External overflow
- Valve to drain the water tank
- Facility to connect the both tanks together for a maximum water capacity in work position only
- One supply fitting to fill water tank in Ø 70 or facility to use hose reel DN19; both systems with high level cut off float.



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2) SUCTION VACUUM PUMP



- Type : **JUOP RV 360**
- Output at atmospheric pressure: 630 m³/H
- Output with 0,6 bar of real trough: 600 m³/H
- Maximum power used at 0,5 bar of suppression : 20 CV
- Hydraulic motor drive type F1
- Rotary Vane Compressor , air cooled system & forced lubrication.
- Vacuum/pressure change over valve, 4 ways & Non-return check valve
- Oil level
- Stainless steel connections Ø 2''

Vacuum - Pressure safety system

- One Pressure Gauge
- Safety ball system fixed on the tank with removable reservoir
- Removable Sludge Filter Element
- One safety valve for pressure security 0,5 bar
- Oil separator filter and muffler with oil recovery on vacuum pump's exhaust

3) HIGH PRESSURE

- Type **HPP**
- High pressure pump with 3 ceramic pistons
- Water flow 80 litres/min at 200 bar
- Necessary power 45 Hp
- Maximal rotation speed 1000 tr/mn
- Need to use clean water with pH between 6 & 8 at 50°C Max
- Hydraulic motor drive type F1 080. Connection between motor & pump by plastic hub
- One manual by-pass setting enable from 0 to maximal pressure of the pump

High pressure safety High pressure safety

- Low water level security with automatic HP pump disengagement
- Water filter before pump with removal filter
- Low-pressure isolation valve for filter cleaning
- HP valve on hose reel
- Pressure Gauge
- Drain & purge valves

4) HYDRAULIC EQUIPMENT

HP pump & vacuum pump, driven hydraulically by the vehicle engine. Through the PTO, mounted on gearbox **60KW**. Engagement ordered inside the cabin.

Hydraulic pump fix on the transfer box:

- One hydraulic motor, type F1 80 drives the HP pump
- One hydraulic motor, type OMP 120 drives the vacuum pump
- One hydraulic motor, type OMP 150 drives the drum HP
- One hydraulic reservoir with cartridge filter & aspiration filter
- Oil is air cooled system with electric motor 12 volts with a thermostatic sensor setting at 85°C to disengaged the hydraulic motors

5) HOSE REELS

- One HP reel 90° on the back of the vehicle on the left side. Capacity 100m with axial supply by swivel joint
- This reel is hydraulically driven with distributor: 3 positions: Reel in, Reel out & free. Distributor with speed regulator from 0 to 30 TR/MIN
- One water filling hose reel, manually operated, fitted to the back of the vehicle on right side with **30m** capacity of pipe DN 19 with axial supply by swivel joint

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6) STORAGE

- 2 aluminium hose supports, on the both sides of the tank
- 2 aluminium tools box on the both sides of the tank



8) CONTROL BOX.

Electrical circuit with main switch in the cabin with light power

One control panel to the rear under sealed box set:

- Acceleration & deceleration engine with electronic control.
- Electronic management system It acts automatically in case of engine overspeed

Independent speed control for the Vacuum Pump and the HP pump

Low level water indicator warning light

- Emergency stop
- Hour counter for the vehicle, HP pump & vacuum pump

One 8-channel radio remote control to continue action

- Transmitter and remote control in a sealed housing.
- Functions:
 - Start / Stop for the HP pump
 - Start / Stop for the Vacuum pump
 - Acceleration, deceleration
 - Emergency stop
- Charger installed in the cabin, supplied with two batteries
- Remote operates in continuous transmission according to CE standards



9) ACCESSORIES.

- **80m of HP hose ½" with 2 steel braids**
- 25m of pipe DN19 with connection
- One ladder with stowage
- One work light + One beacon (strobe lights)
- **2 nozzles ½" with storage**
- Suction hose 4 X 4m in DN 70 with suction pipe
- Reversing alarm
- One Rear view camera with colour screen
- Operating & maintenance manual
- Complies with CE safety standards, we are ISO 9001 CERTIFIED

BASE SPECIFICATION ENDS

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OPTIONAL EXTRAS AVAILABLE

Available Options:

Please "Tick" to select an option at the extra cost shown.

Tick Box if Required

Option a) • Rear door opening by hydraulic cylinder with tank's tipping

Option b) • Rear door closing by hydraulic lock

Option c) • One manual HP Hose Reel ¼”

Option d) • One suction reel DN 65, equipped with 20m of pipe maxi with axial supply by swivel joint

Option e) • Suction Reel hydraulically driven with distributor
Three positions Reel in, Reel out & free.
Distributor with speed regulator from 0 to 30 TR/MN

Option f)

CameraWhale TV Kit: CameraWhale TV Kit - Whale Part No 159040
2325GB Camera plus SD memory card plus wheel skid unit

END OF OPTION CHOICES

