

TOWABLE LAVATORY SERVICE UNIT

GENERAL SPECIFICATION:-

- The Equipment is to be used for service of Aircraft lavatory connections for the Narrow body aircraft from the ground level.
- Transport and dispose of the lavatory waste removed from the Aircraft.
- The Equipment is to be built on a Towable chassis with swivel Turn Table with applicable brake on front tyres.
- Toilet cart shall consists of Two independent Tanks, a water pump, valves and Gauges, flushing system for waste tank, dump valve .

CHASSIS FRAME:-

- 4 Wheels Towable chassis of 8'x5' size with Front and Rear axle.
- BRAKE ASSY.: Brakes to be provided on front wheels and actuates on decoupling from tow tractor or trolley.
- CUSHION RUBBER TYRES: Size 4.00 x 8 x 3.75" width tyre with wheel rim dia 198 mm. These tyres have a soft core with hard rubber outside and at the rim ends to stand wear & tear. The front & rear wheel hubs are manufactured with fine grained Cast Iron machined on all sides fitted with taper roller bearings; inner bearing SKF
- Turn Table Ring:- Imported TT Ring of 400mm to turn the chassis.
- Diesel/Petrol Engine as Prime Mover to complete pumping action. The engine exhaust fitted a spark arrestor
- A battery double-pole isolation switch (main power cut-off switch).
- Brakes: Front wheel tow bar operated

WHEELS AND TYRES:-

TCUSHION RUBBER TYRES: Size 4.00 x 8 x 3.75" width tyre with wheel rim dia 198 mm. These tyres have a soft core with hard rubber outside and at the rim ends to stand wear & tear. The front & rear wheel hubs are manufactured with fine grained Cast Iron machined on all sides fitted with taper roller bearings; inner bearing SKF

TANKS:-

The unit shall have two separate tanks: For waste collection (Capacity-1000-1500 Ltrs) Optional Standard 700 Ltrs.

For Rinsing water (Capacity- 500-1000 Ltrs) Optional Standard 300 Ltrs.

WASTE REMOVAL SYSTEM:-

The waste removal system works by gravity to remove waste from the aircraft lavatory. The system consists of the following components:-

- Waste Tank: The waste tank is the rear most of the lavatory service tanks and shall be fabricated from min. 3 mm thick stainless steel (SS-304) material and shall be easily washable. The ends shall be preferably dished spherically and the corners rounded to at least radius of 75mm. The bottom of the tanks shall be sloped towards the drain hole. The tank shall have at their top a leak- proof manhole with a removal access cover of at least 400mm diameter to allow cleaning and inspection at located directly over the intersection of the baffles. It is divided by internal safety baffles that extend downward.

WASTE TANK DRAIN VALVE:-

The dump valve shall be provided at the lowest point of the tank at the rear and clear of all chassis members and axle. This valve is used to empty the waste tank contents. A manual control handle operates the valve.

ENGINE:-

The engine drives the centrifugal pump in order to supply flush water to the aircraft. The engine mounted adjacent to the pump compartment and has an integral tank and an electric starter. A 12 volt battery and supplies power for the engine starter. Operating control for the engine are located on the engine Type of Engine 4 strokes overhead valve one cylinder air-cooled gasoline engine with electric start Horse power, maximum 7Hp @1800RPM with Fuel Capacity 30 Litres.

FLUSH WATER HOSE AND DUMP HOSE:-

The hose will have, at its end, a standard aircraft coupling of Roylin make with part No.V1041JO16A00.
Length 15ft (5mtr)
Inside diameter 1 inch (25mm)
Storage Stored in hose compartment
Construction Nylon reinforced PVC tubing
Dump Hose: 4" coupling with spiral dump hose of length at least 10'.

PAINT WORK FINISH AND MARKING:-

All materials will be corrosive and weathering effects of Waste or other atmospheric conditions will be suitably protected. The wheel walls and all exposed underside Chassis and under carriage will be rust proof. All metal parts shall be sand blasted with compressed Air primer coated and protected.

Lavatory Servicing Cart surface shall be treated and painted in Accordance with WHITE PU Paint Scheme OR As per customer requirement and marking .This can be advised during the time of contract neg

LIGHTING SYSTEM:-

The unit to be provided with normal automotive lighting, yellow colour reflectors with beacon flasher. Adequate lighting will be provided in Area lights to facilitate working at night.



approx. 1450

max. 6100

1900

2150

2150

1900

2150

1900

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