

PORTABLE TOILET CARIER WITH CLEANING UNIT BMC 417 4X2 WB 3365

Technical Specifications

GENERAL

The portable toilet carrier is designed to carry up to four plastic lightweight portable toilets and one cleaning unit. The equipment is consisting of platform, and cleaning unit installed on the platform.

PLATFORM

Platform will consist of a sub frame made of St37 quality steel sheets or suitable NPU profiles, reinforced with transversal support beams and covered with antiskid checkered steel plate. The platform will be easily detachable form the chassis truck.

CLEANING UNIT

The cleaning unit will consist of two parts, Vacuum unit and Washing unit.



VACUUM SUCTION UNIT

Vacuum unit consists of vacuum tank and vacuum pump for suction of the cesspit fluid.

Tank volume : Cylindrical shaped tank with dished ends, volume with capacity 900lts.

Wall thickness : 5mm St-37 quality steel plates.

Tank mounting : Vacuum tank will be easily mountable and dismountable on the carrying platform.

Suction valve : Manually controlled 2 1/2" valve with quick coupling for hose connection.

Discharge valve: Manually controlled 3" valve with quick coupling for hose connection.

Level indicator : 2-3 nos. level indicator glasses on the dished wall.

Manhole cover : There is a manhole at the top of the tank, diameter 400mm.

Suction Hose

Manually controlled flexible hose with 2 1/2" size and min. 6mt length. Reel type brackets for storing the suction hose.

Vacuum Pump

Air cooled with automatic lubrication.

- Max Vacuum : ~90%.
- Capacity : ~2600 l/min.(156m³/h)
- Power : 3,3kW vacuum.



Shutt-Off Valves

Primary shut-off : Located at the top of the tank, it consists floating ball system.

Secondary shut-off: Located between primary shut-off and vacuum pump. It consists floating ball system.

WASHING UNIT

Washing unit consists of water tank and high pressure water pump for cleaning the toilets.

Water tank made of HDPE or polyester with minimum capacity of 200lt.

There will be outlets for filling and discharging the tank and pipe installation for feeding the HP water pump.

High Pressure Water Pump

- Max. Pressure : 100 Bar
- Nom. Flow rate : 10 lt/min
- Power : ~1,8kW.



High-Pressure Hose

Hose reel with spring retracting and 3/8" min. 10m high pressure hose.

With washing gun.

SYSTEM DRIVE

Vacuum and High-Pressure pump will be driven via hydraulic motors connected to a hydraulic pump mounted on a gasoline engine.

Engine

Gasoline engine nominal power will be 9HP, air-cooled, with battery and electrical and manual starter. Coupled to a hydraulic pump.



Hydraulic System

There will be a full equipped hydraulic system installation including hydraulic oil tank with all necessary components such as suction filter, return filter, level & temperature gauge and filling tap with breather. The system will be used to control the vacuum and high pressure pumps.

Control Panel

There will be a control panel with following displays and controls:

- Engine Control
- HP water manometer
- Vacuum Manometer
- Emergency Stop
- Work light on/off



ACCESSORIES

- Plastic storage box.
- Flexible suction hoses.
- Plastic or Aluminium suction pipe 800mm long.
- Discharge hose.
- Mudguards at the rear tires.
- Side notice lamp at the both side of the vehicle
- Beacon light.

PAINTING

Internal and external surfaces primer coated and painted to the color of customer choice except plastic parts. All necessary parts body and subframe will be painted to protect from rust.