

Water Engineering Services FZE



## MOBILE GAS CHLORINATION UNIT



An ISO 9001: 2008 Company

Sustainable Water Solutions



## TRAILER MOUNTED GAS CHLORINE DOSING UNIT

### General Description

The mobile chloration unit is a two or Six -wheeled trailer unit, which can house the following main items: -

1. Chlorine cylinder 65kgs or 1000 kgs
2. Gas control units Chlorinators (Automatic/Manual)
3. Booster pump set
4. Fume Detection system.
5. Generator (optional)

The chlorine gas cylinders or Drums and connected as duty standby units which is then connected to a vacuum/Pressure switch over unit. The chlorine gas passes from the cylinders/Drums in use into a header arrangement and from that to a vacuum regulator/relief valve. The gas then flows to the chlorinator, as applicable, as a regulated vacuum under the influence of a water - operated injector. The injector operating water supply is necessary using multistage pump driven.

### TrailerUnit/container unit

This trailer unit has nominal dimensions of 2mt L+1.5 mt w+2 mt.h height or in can be mounted in a standard 20 feet or 40Feet standard container or as per the client 's selection of the system, it genrally comprises a chassis, under frame, a body structure and appropriate electrical wiring. The maximum capacity and the trailer unit is appro mately 2000kg or 4000kg. The drawbar fitted is to an EEC standard

## Body Structure

The body structure is constructed from anticorrosive steel. The sides, walls, front and rear bulkheads and doors are made from anticorrosive painted steel, with all edges sealed and capped with aluminum moldings. The floor and the roof is epoxy coated steel sheet. The cylinder cabinet at the rear of the trailer is formed by internal partitions, full width and full height, forward. The chemical solution delivery and the water supply hose compartments are divided from the main section by a full height, full width partition from the rear and front. There are sloping alloy floors in each of the upper and lower hose reel compartments.

A breathing apparatus/ tools cabinet is located to the rear of the nearside wheel box. Access to the cabinet is by a lockable, top hinged liftup flap and lockable double doors. The complete exterior of the trailer body is of sheet steel anticorrosive coated. The chassis is finished in black gloss enamel.



## Gas Chlorinator unit

Various combinations of the gas Feeders, for either Chlorine or Sulphur Dioxide, can be provided; with a single gas capacity of 48 kg/day of Chlorine or 240 kg/day for drum units is possible. In practice however, the continuous dosing capacity would be governed by the draw-off rate from 2x 65 kg chlorine cylinders or 1000 kg drums. The cylinders/Drums are mounted on the partition dividing the main compartment from the gas compartment.

## Booster Pump

A multi-stage booster pump is mounted adjacent to the diesel engine (optional) and is driven by the engine via V-belts. Quick fit hose connections are provided in the hose reel compartments at the front of the trailer.



## Engine/Generator Set (only for containerized unit)

The engine/generator set is skid mounted full and fixed, by anti-vibration pads floor at the end of the trailer. The engine's fuel tank is mounted on the nearside outer wall of the main compartment above the engine and when full provides sufficient fuel for four hours of the running time. The exhaust pipe is taken so that its outlet is at the rear of the trailer. An engine control panel is located in the main compartment just inside the entrance.

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