

Butyl Products Ltd.

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Water Treatment Unit

LMS 4m3/h

Skid mounted

Technical Specification





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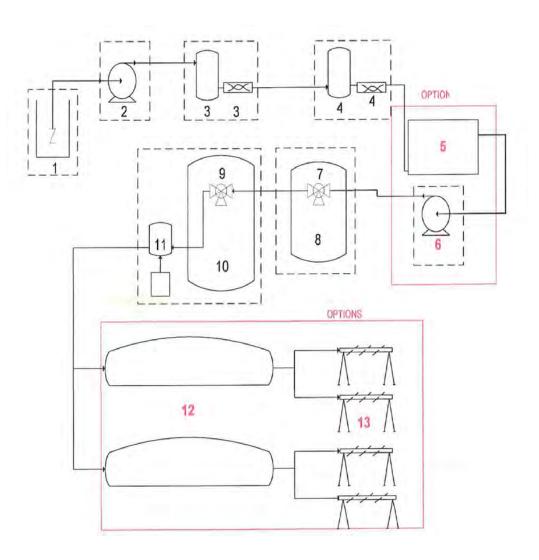
Technical Specifications LMS 4m³ / h on 2 Skids

I. General Characteristics

Kind of water treated	: All kinds of sweet water, non contaminated by 'toxic' products.
Unit Flow	: 4 cubic meters per hour nominal flow rate.
Principle	: Chemical pre-treatment by manual coagulation & flocculation, filtration through a 2 layer Sand filter and absorption on activated carbon filter.
Disinfection	: Automatic injection of NaDCC (55% active chlorine).
Storage & distribution	: See Options.
Installation	: Quick installation in 30 minutes for 2 people, manual handling.

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II. Setup Overview



III. Description

Water treatment unit mounted on 2 separated skids, 4 cubic meters including:

- A black perforated socket immersed to allow a 1.00mm pre-filtration (1)
- Water suction through a strainer equipped with a non-return valve, coupled with a float
- Self priming diesel motor pump designed for ra2w water pumping (2)
 - * Hatz diesel engine B20, 4 7HP
 - * Pump 4cum/h at 25m HMT, 3600rpm
 - * 8.3Kg
 - Coagulation chamber with static mixer (3)
 - * Coagulant in slow dissolving pastille
- Flocculation chamber with static mixer (4)
 - * Floculant in slow dissolving pastille
 - 100m (4 x 25m) hose lengths to assist with reagent mixing and flocs formation

In case of turbidity > 100 NTU we recommend the addition of a settlement tank—see options 5 & 6

Sand filter:

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- PEHD filter 450mm diameter, resistant to abrasion (8)
- Food grade quality
- Two layers of sand
- Filtration speed 25m³ / (h.m²)
- 6 way multiport valve (7)
- Manual backwash and rinse
- 1" output drain with strainer to allow filter draining
- 2" output drain to allow mass filtration draining
- Maximum pressure 2.5 bars, pressure test 4 bars
- Coloured 2" Guillemin fittings for intuitive connection

Activated Carbon Filter:

- PEHD Filter 450mm diameter, resistant to abrasion (10)
- Food grade quality
- Filtration speed 25 m³ / (h.m²)
- 6 way multiport valve (9)
- Manual backwash and rinse
- 1" output drain with strainer to allow filter draining
- 2" output drain to allow mass filtration draining
- Manometer equipped for pressure control
- Maximum pressure 2.5 bars
- Pressure test 4 bars
- Coloured 2" Guillemin fittings for intuitive connection

Complete automatic dosing system for water disinfection (11)

- Chlorination by NaDCC granules, 55% active chlorine
- 25 litres PE tank, resistant to UV for preparation and storage of the basic solution
- Reagent level indicator
- Draining valve
- Dosing pump (Max. Flow : 4.5 m³ / h—no energy required)

The dosing pump (Dosatron system) is more precise for chlorine injection

Additional equipment:

- All necessary hoses for connection between the unit components
- Detailed instruction and operation handbook in English (other languages on demand)
- Complete maintenance kit for motor pump and dosing pump
- Complete tool kit for operation and maintenance of the unit
- pH and Chlorine analysis kit
- Turbidity tube
- Consumables for an operating period of 3 to 6 months (this depends on the raw water quality and the length of time the unit will run on a daily basis), including coagulant, floculant and NaDCC

<u>Packing</u>

The Unit is packed in 2 wooden crates measuring:1.20m x 0.80m x 1.50mGross weight:\$50Kg

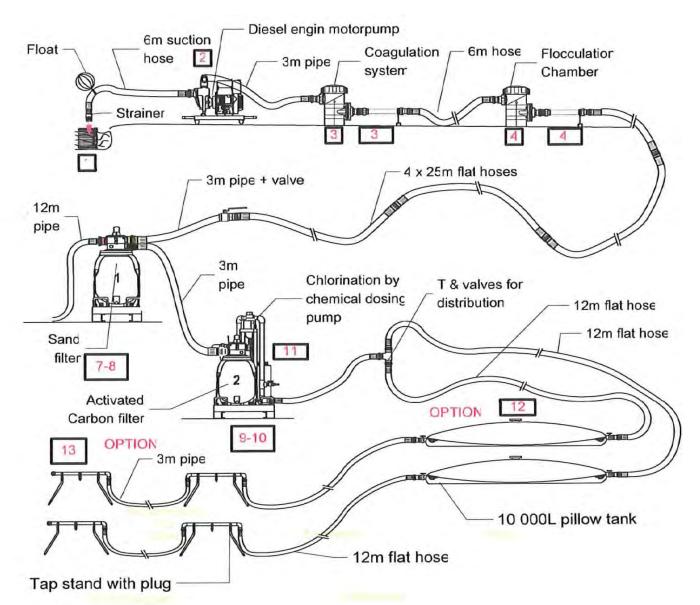
<u>*Please Note:*</u> The NaDCC (UN Code: 3077, Class 9) is packed in one specific case, according to hazardous goods regulations and can be shipped by all methods of transport.

Dimensions:

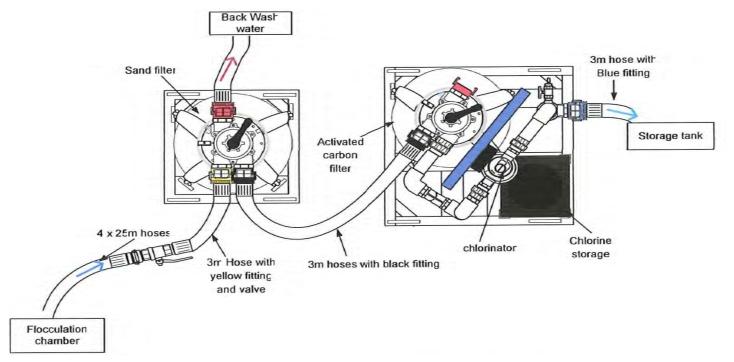
Gross weight:

0.41 x 0.41 x 0.41m 26Kg

IV. Diagram of Installation (Without settlement tank)

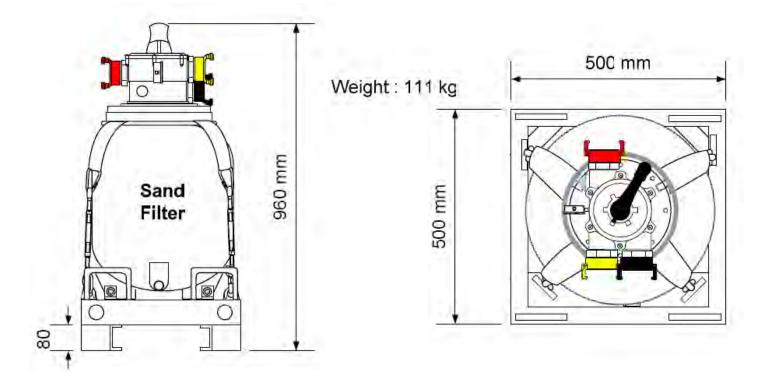


V. Connections

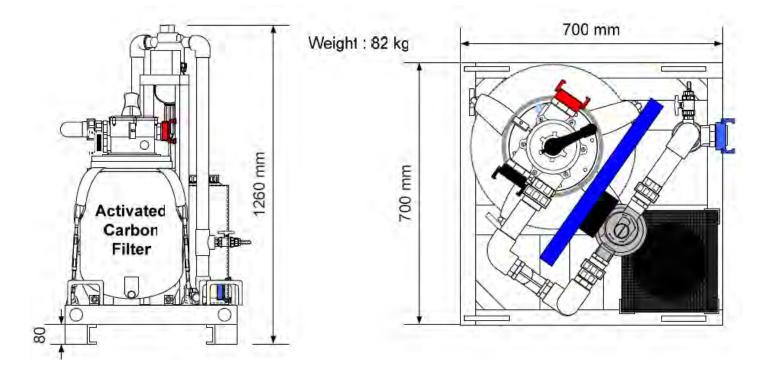


Filter Characteristics

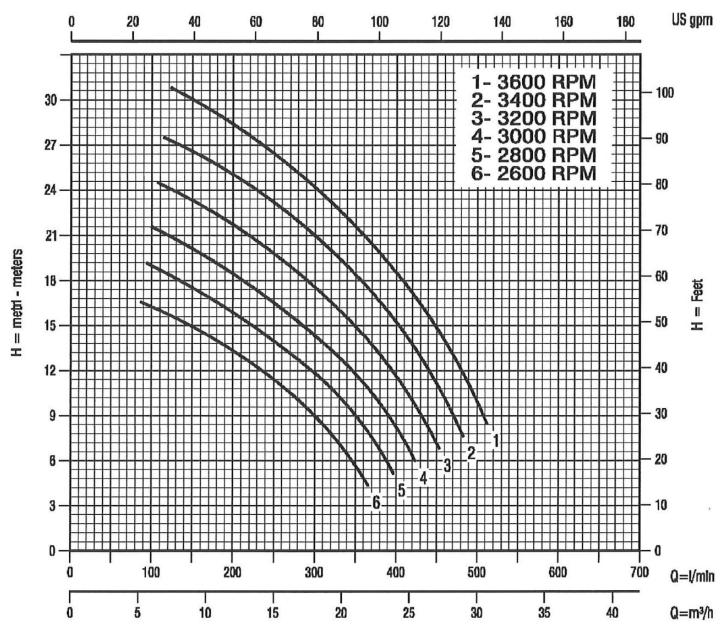
The Sand Filter Skid:



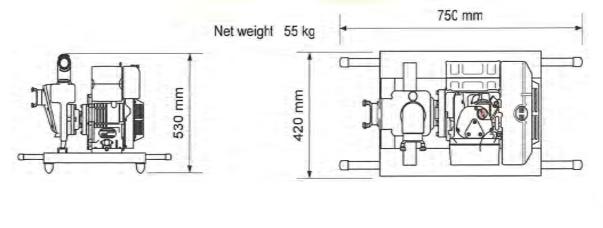
The Activated Carbon filter skid & NaDCC Chlorination:



Motor Pump duty graph



Motor Pump Skid





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