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Water Treatment Unit

LMS 10m³/h

Skid mounted

Technical Specification



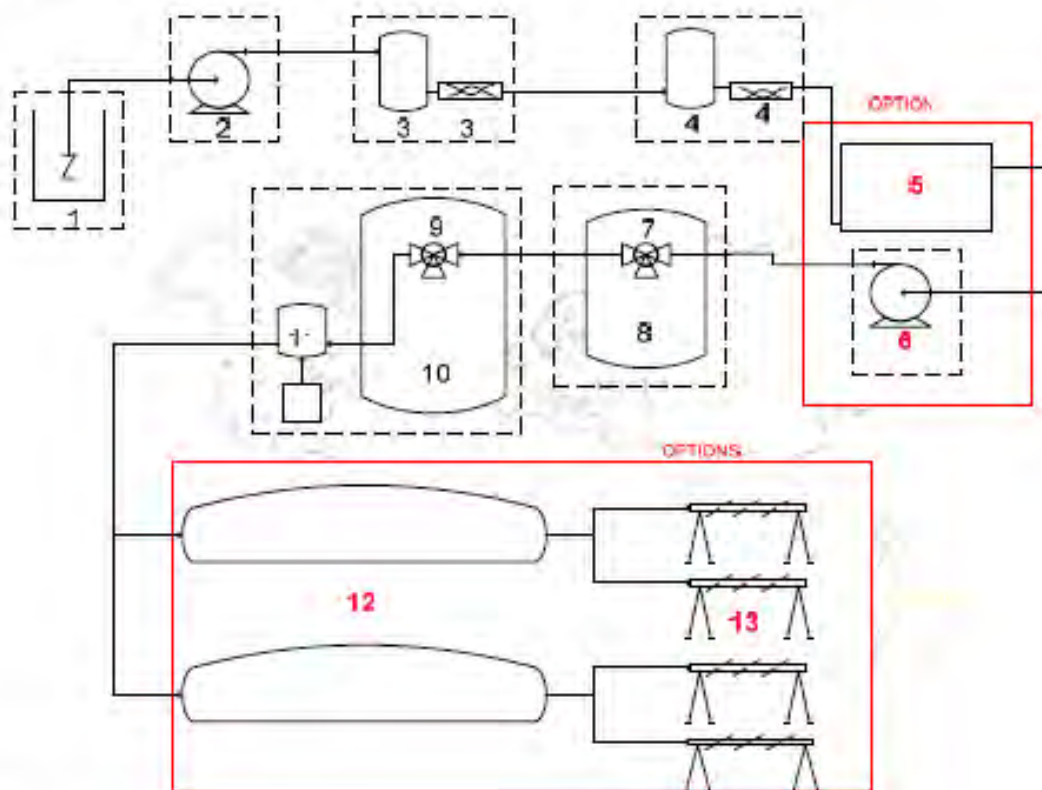
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Technical specification OX-10 10cum/h on skid

I. GENERAL CHARACTERISTICS:

Kind of water treated	: All kind of sweet water non-contaminated by products said as "toxic".
Unit flow	: 10 cum per hour nominal flow rate.
Principle	: Chemical pre-treatment by manual coagulation & flocculation, filtration through a two layers sand filter and adsorption on activated carbon filter.
Disinfection	: Injection of NaDCC (55% active chlorine) thanks to a dosing pump
Storage & distribution	: see Options
Measurement	: one under heat galvanized skid (2500x1300x1500)
Installation	: Quick installation by two persons in 30mm

II. PRINCIPIE scheme:



III. Description

Water treatment unit mounted on an under-heat galvanised skid, 10 cum/h including:

- A black perforated socket immersed to allow a 1mm pre-filtration (1)
- Water suction thanks to a strainer equipped with a non-return valve coupled with a float
- Self priming diesel motor pump driven for raw water pumping (2)
 - Hatz diesel engine B20, 4,7HP
 - Pump 10 cum/h at 25m HMT, 3600 rpm
- Coagulation chamber with static mixer (3 & 3')
- Using of coagulant in slow dissolving pastille
- Flocculation chamber with static mixer (4 & 4')
- Using of flocculant in slow dissolving pastille
- Time for reaction
 - 100m (4x25m) flat hoses length to assist in reagents mixing and flocs formation

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In case of turbidity > 100 NTU regarding water to treat we recommend the addition of a settling tank (see Options 5 & 6).

- Sand filter:
 - PEHD filter 740 mm diameter, resistant to abrasion (8)
 - Food grade quality
 - Two layers of sand
 - Filtration speed $23 \text{ m}^3/(\text{h.m}^2)$
 - 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 840 mm diameter, resistant to abrasion (10)
 - Food grade quality
 - Filtration speed $18 \text{ m}^3/(\text{h.m}^2)$
 - 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
 - 1 By-pass with flow meter
 - 50 Liters PE tank, resistant to UV, for preparation and storage of the basic solution
 - Indicator of reagent level
 - Draining valve
 - Dosing pump (Max. flow : $8 \text{ m}^3/\text{h}$ – no energy required)

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

- Additional equipments :
 - All necessary hoses for connection between the unit components
 - Detailed instruction and operation hand-book in English or other language on demand
 - Complete maintenance Kit for motor-pump group and dosing pump
 - Complete tools kit for operating and maintenance of the unit
 - 1 x 7 parameters analysis kit (pH, Chlorine...)
 - Turbidity tube
 - Consumables for an operating period from 3 up to 6 months (depends on the raw water quality and the daily period of running of the unit) including coagulant, flocculant and NaDCC:

Packing:

The OX_B1 is packed in a wooden crate with the following measurements:

280 x 155 x 180cm

Total gross weight:

900 kg

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IV. Station

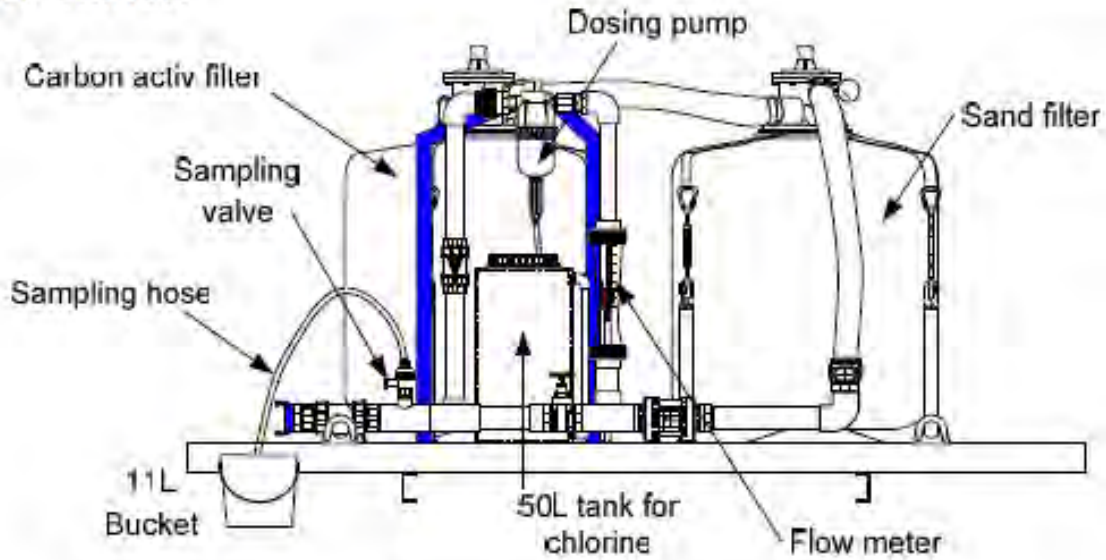
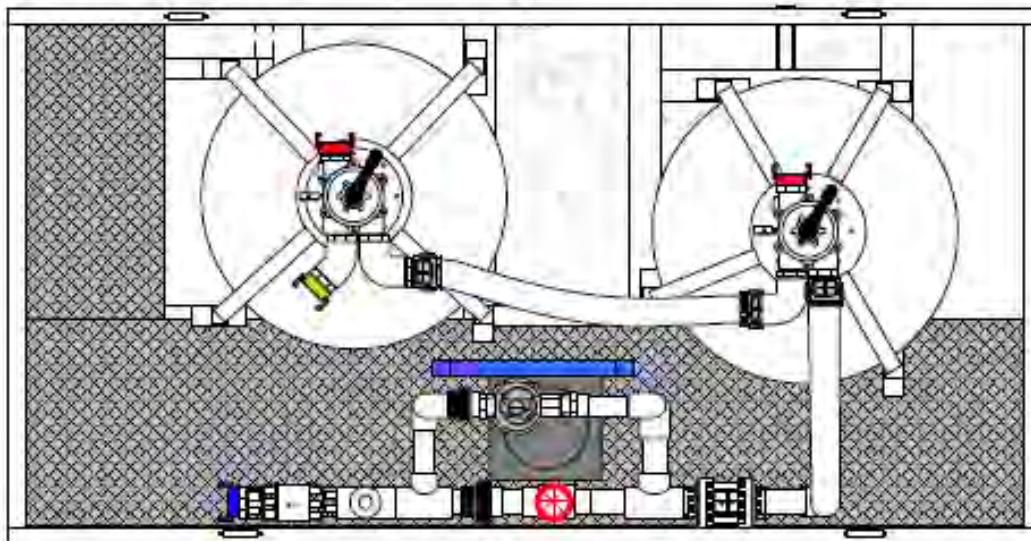


Figure 2 : OX-10 Front view



Skid Length : 2.60m
Skid Width : 1.30m
Skid Height : 1.50m

Figure 3 : ABOVE VIEW

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V. Motor-pump characteristics

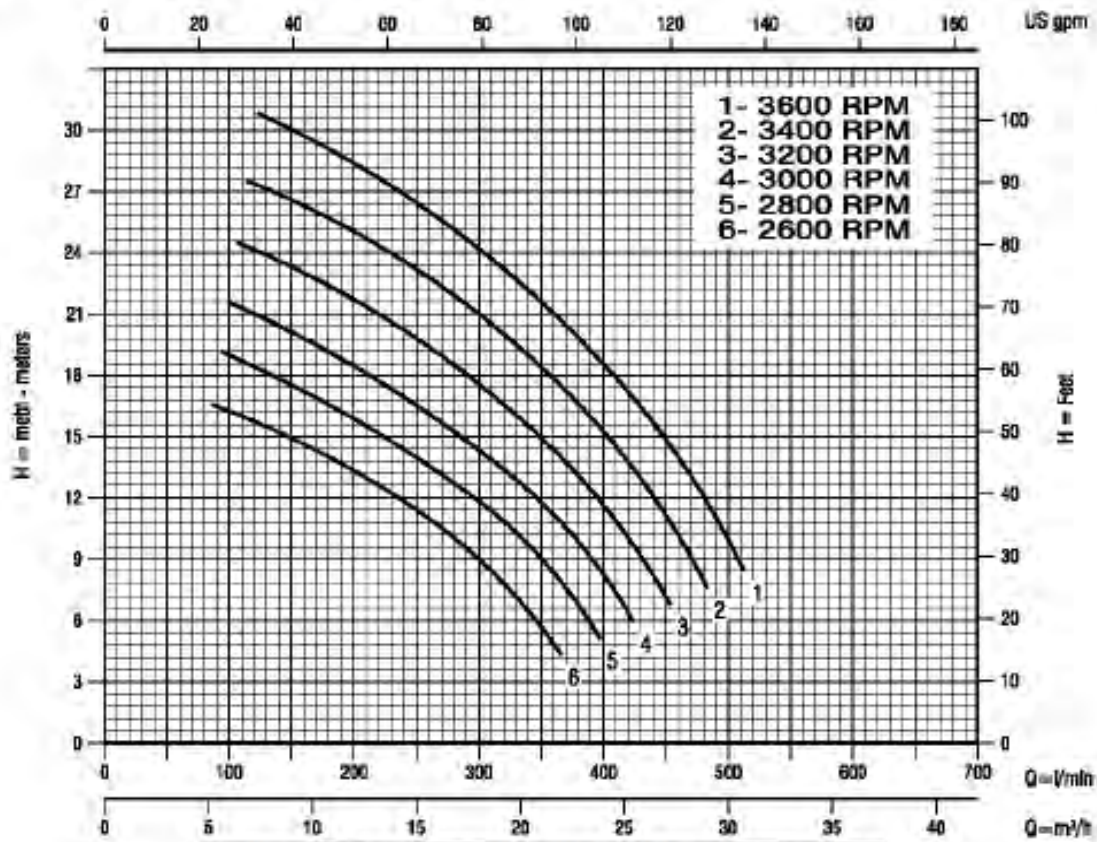


Figure 4: Characteristic curve of the motor pump

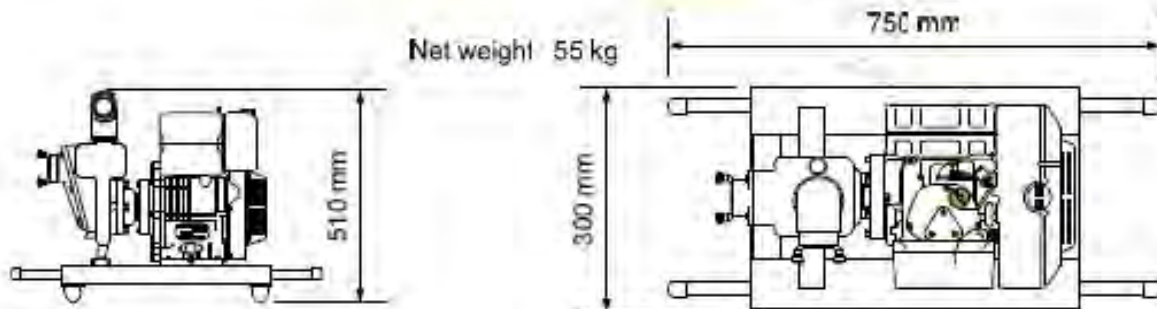


Figure 5: The motor pump skid

