



WORKS SITE WATER TREATMENT PLANT

To separate suspended mineral particles (flocculation and sedimentation)

FIELDS OF APPLICATION

As part of the “water regulations” respect, the MS water treatment plant find its application in :

- the treatment of construction site water (drainage, washing,...) or seepage waters from tunnel boring sites
- the clarification of dredging water as well as any treatment of industrial waters containing mineral particles
- mineral industry (quarries and sand pits)
- stone cutting industry
- agro – food industry

MODULAR DESIGN

- Complete plant made of two stackable modular units :
 - one skid base with the settling tank and its overflow channel, and the clarified water tank with an oil separator
 - one control bungalow, installed on the settling tank and containing the control and monitoring cabinet, the coagulant and flocculant preparation and dosing unit (DOSAFLOC) and the flocculation controller (CONTROLFLOC)
- Pre-assembled and wired in our workshop

PERFORMANCES

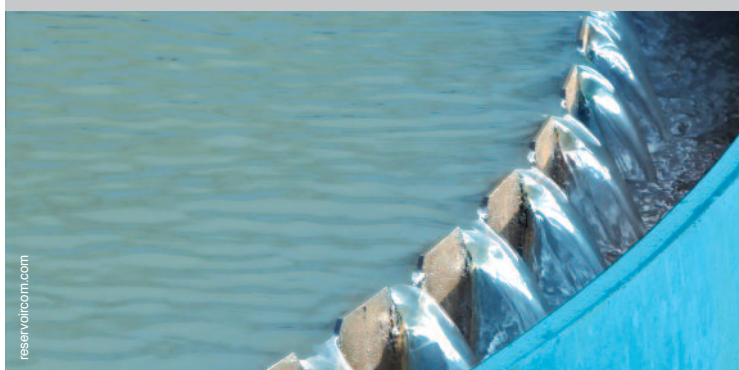
- This unit can treat up to 75 m³/h of water containing maximum 2 t/h of suspended dry solids
- Assuming some options (to be defined according to the project conditions), the target in term of residual dry solids in the clarified waters is of :
 - < 30 mg/l in average (24 h)
 - < 50 mg/l instantaneously



Departure of the 2 modular units from our workshop

SAFETY

The MS works site water treatment plants comply with CE standards of personnel safety and ergonomics



ERGONOMY

- Modular concept for an easy and fast transport, erection and start-up
- Requires no specific civil works or foundations
- Easy access by stairs, gangways and galvanized gratings
- Insulated control room with heating and / or air conditioning



Flocculant preparation, dosing and control unit



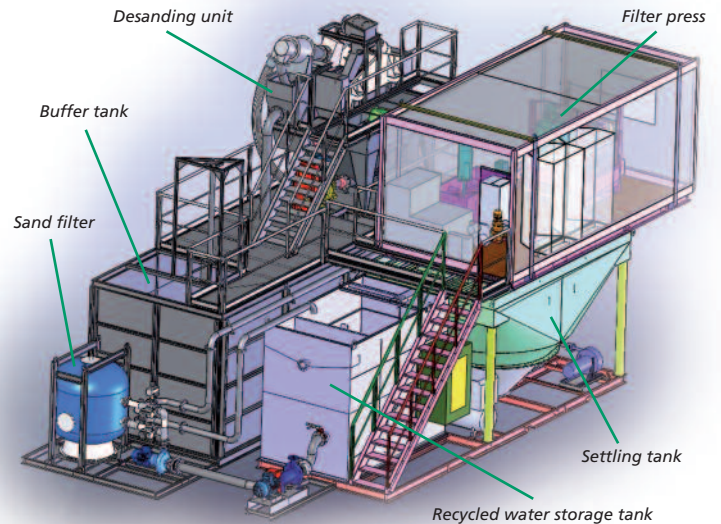
Sand filter skid (option)

AVANTAGES

- optimisation of the flocculant and coagulant consumption
- Sludge pumping cycle monitored by PLC according to the consistency (information determined by the precise measurement of the scraper resisting torque)
- Possible telemaintenance
- Well known brands of high quality components
- Construction, assembly, pre-wiring and tests in MS workshop

MS and its laboratory is at your disposal for an individual study

Works site water treatment modular plant



"Full option" unit (except off - frost device) 120 m³/h instantaneous and 60 m³/h smoothed

OPTIONS

- Cycloning/dewatering unit for an efficient desanding before clarification
- Buffer tank to smooth the flow and consistency of the effluent
- Control of the effluent by re-concentration or dilution
- Pressing section to transform the semi-liquid sludge into solid cakes for an easy evacuation
- PH treatment (acid or CO₂)
- Additional filtration (sand filter)
- Off frost device (pumps and piping)

Built-in filter press (option)



Sludge solid cakes after pressing (option)

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