

FILTRATION PILOT ON SAND AND ACTIVATED CARBON DESINFECTATION BY



Non contractual photo

**SERVICE : 220 V - 50 HZ SINGLE PHASE,
500 W CUSO₄ 10-3 M SOLUTION WITH
SLAKED LIME (50 MG / L)
DIMENSIONS : 2000 X 800 X 1900 MM**

REFERENCE : MP32CR

This unit completes the coagulation pilot-flocculation-decantation to make drinking water. It consists of a sand filter, an activated carbon filter to remove residual microorganisms and colloids from the water coming out of the sand filter and a chlorine disinfection module. This unit connects electrically to the coagulation-flocculation-settling unit MP50ABC (provided in item1) for tank level management.

This unit allows the study of the filtration thanks to the piezometric tubes placed along the column of sand (Study of the law of Darcy, the porosity of the bed of sand, the permeability according to the height of water, the clogging of the filter, efficiency of the backwash). With sand filtration you can also use the de-ironing process with bleach or the appropriate flocculant and dechlorinate and / or bleach with the activated carbon filter by checking the continuous chlorine level at the outlet of the filter. column.

Technical specifications :

- Two tanks (supply of product to be treated and intermediate tank before activated carbon filter)
- Disinfection station consisting of: A tank for chlorine storage; A tank to adjust the chlorine; A chlorine dosing pump; A feed pump of the chlorine measuring circuit; A continuous chlorine measuring probe and its transmitter with 4-20 mA output and 2 relay outputs
- An agitator
- An Altuglass column (sand filter)
- A battery of piezometric tubes for the measurement of the losses of charges, mounted on graduated panel
- An Altuglass column (activated carbon filter)
- A manometer
- A centrifugal feed pump for sand filter
- Centrifugal feed pump for activated carbon filter
- two flowmeters
- Two levels of low safety for the pumps (the high safety of the tanks will be ensured by overflows)
- The assembly is mounted on stainless steel chassis, the pipes are PVC.
- The control cabinet includes the safety relays and the protection of the three pumps.