

Technical specifications

The aim of this project is pumping of raw water for using in copper industry. Micro Drum screen unit is considered in order to prevent downstream equipment from damage and clogging. The filtration unit consists of micro drum filter units located inside the reservoir. Filter is equipped with horizontal axis of rotation. Drum is hanged on two drive belts and is equipped with filtration cloth. Filtration cloth makes a barrier to the flowing water. The impurities are caught on the cloth and further washed into the sludge tank with backwash system. Filtration cloth is fixed on special plastic segments, which can be easily, with no need of tools, fixed on drum.

Backwash system is connected to the backwash pumps which pumps already filtered water for cleaning the cloth. Filter operation is based on sensing the water levels in front of filter and in its sludge tank. Device is equipped with all the functional components vital for filtration. Filter is able to remove only particles bigger than filtration cloth aperture. The filtered water is lead to 500 m³ water storage tank and then is pumped by dry centrifugal pumps to specific units in order to use as make up water.