Sludge-Bag-Drainage
SACK DRAIN

» Electroless dewatering of sludge
» Low-cost
» Easy retrofittable

CLEAN WATER - IN TUNE WITH OUR NATURE
Mode of Operation:

The surplus sludge is drawn out of the sludge storage tank using a self priming pump. At the same time, correct amounts of flocculation agent are added via a dosing pump to ensure optimal drainage. The mixture is pumped to the proper sack drainage process where, in the basic model, 3 filter sacks made of geotextile are used. Due to the shut off mechanism in the distribution pipeline, the sacks can be filled in a series or simultaneously. It is not possible to overfill the sacks as they are designed with a pressure control valve for feedback. The flocculated surplus sludge remains in the sacks and is statically drained. The return flow from the sludge treatment is collected in the tank positioned under the attached grate and channeled back to the wastewater treatment plant.

After a few hours of draining, the sacks can be removed and stored in a shelving system in a well ventilated and dry place.

After some time, the sacks of dried sludge can be cheaply disposed of or used as fertilizer.

A volume and weight reduction of over 95 % is possible at anytime using this method.

SACK DRAIN - the cost effective alternative to mechanical sludge drainage machines.
SACK DRAIN – containerized:

The sludge drainage container is suitable for larger volumes of sludge. It uses the same system as the SACK DRAIN and is operated in the same way.

Our sludge bag drainage system is installed in a 20 ft. ISO standard container together with a dosing station and a control system which are integrated so as to ensure a fully automatic and smooth sludge drainage process. Only the bags need to be replaced regularly by hand.

The sludge drainage container has 6 bags which drain approx. 2 - 5 m³ of sludge a day. This container can also be extended as required and offers the same advantages.
ADVANTAGES OF THE SLUDGE BAG DRAINAGE METHOD:

» Easy and cost effective installation (self-assembly)
» Easy to apply to an already existing wastewater treatment plant.
» Modular building block system - can be extended on demand.
» Easy disposal of sludge due to the bag-fill system.
» Small investment and waste disposal costs (cost savings of 80 %)
» Energy free drainage (over 90 % solid content)
» Use of drainage durable materials (stainless steel, polyethylene and aluminium frame constructions) and metal
» Available in various sizes (from 5 – 1.000 PE)