

CASE HISTORY

SEMICONDUCTOR
SOLAR
PHARMA
POWER GENERATION
FOOD & BEVERAGE
PULP AND PAPER
CHEMICAL
OIL AND GAS
MINING
AEROSPACE AND TRANSPORT
METAL FINISHING
MUNICIPAL



Toveko Filters

Tertiary Filtration – AIBP Ireland





View down into the filter showing two of the sand washers

AIBP is the largest and longest-established beef processor in Ireland, with factories across the country.

At their factory in Clones, the discharge quality from the existing wastewater treatment plant needed upgrading.

After considering various options, a model S-450 TOVEKO continuous gravity sand filter was chosen for a number of reasons:

1. Since TOVEKO filters are only 2.3m high, the wastewater from the preceding secondary clarifier could gravity flow directly into the filter, avoiding the need for an intermediary pumping station.
2. TOVEKO filters react automatically to changes in the condition of the inlet flow, starting, stopping, increasing and decreasing the rate of sand washing as necessary to keep the filter bed in good condition. This is particularly useful in situations where the solids load feeding into the filter is not constant as the filter automatically adjusts itself. In this application, the suspended solids concentration entering the filter can vary substantially.

3. The model S-450 filter has a filtration surface area of 4.5m² and is designed to handle an incoming flow rate of up to 30m³/h at a suspended solids concentration up to 125mg/l. In cases where a lower suspended solids concentration can be guaranteed, a smaller filter can be used.



View from above showing the wash water pumps and secondary clarifier

H+E also offers on-going technical support to our clients, both by telephone and by providing regular service visits to ensure that the filter continues to operate satisfactorily in the long term, leaving our customers free to concentrate on production. Of course we also supply the occasional spare part as and when necessary. This is in line with H+E's philosophy of providing long-term technical support, plus service and maintenance to **all** our clients.

H+E ranks among the world's leading suppliers in the fields of: water & wastewater treatment, and energy efficiency. Based on its global presence, the **H+E GROUP** has completed projects in over 50 countries.



HAGER+ELSÄSSER

An aquarion Group Company

Tel: +44 1403 272772

sales@he-water.co.uk
www.he-water.co.uk