

Client

Billerud AB, Gruvöns Bruk, Grums in Sweden.

The client has three pulp lines, and produces sack and kraft paper, fluting and white liner for containerboard, and market pulp.

Project aims

The client needed to remove fibre from the Black Liquor in order to eliminate the build up of solids on the heat exchange surfaces of the following evaporators.

They required equipment which would work continuously and efficiently in the conditions of extreme temperature and pH.

Type of Installation

An Algas AMF 15 W Microfilter was installed to remove solids before evaporation.

Solution

After successful trials the mill decided to select ALGAS for this difficult application.

They installed a specially designed ALGAS Microfilter to withstand both temperature and high pH of the black liquor and with a continuous operation. A filtrate liquor of low TSS was produced, preventing any build up in the evaporator system, maintaining best possible heat transfer with low maintenance and downtime.

Results

The filter was delivered in November 2000
The process data is as follows:

Inlet flow : 500 l/min
TSS in : 5,000 mg/l
Filtrate clarity : < 20 mg/l



This ALGAS filter is specially designed to handle BLACK LIQUOR. As the temperature of the liquor is around 900C, the filter is insulated and the inspection hatches fitted with security hatches to prevent unauthorised operation. Seals with special features to prevent leakage are included, as there is access to personnel below the unit and any spillage is therefore unacceptable.



Watching the black liquor being well filtered