



• Dairygold adopts the BioTector® to control the influent COD loading of its Bio-tower.

- SAMPLE CONDITIONS, PREVIOUSLY BELIEVED TO BE DIFFICULT (OR IMPOSSIBLE) FOR ON-LINE TOC ANALYSIS ARE PERFORMED ROUTINELY BY THE BIOTECTOR®
- THE BIOTECTOR® 970, WITH THE HIGH RANGE VALVE AND CERAMIC CIRCULATION PUMP COMBINATION ALLOWS A DIFFICULT SAMPLE TO BE ANALYSED WITH EASE.

Requirement

The influent to the bio-tower in Dairygold consists of both factory waste (high in fats) and surface water (containing hard particulates). The resultant sample matrix (fatty globules impregnated with grit) presented a major challenge to conventional TOC analysers.

Additionally, when Dairygold decided to upgrade their influent control system, they called on their years of experience with on-line analysis to list a number of criteria essential for the successful operation of the TOC / COD analyser:

- Good references with similar applications.
- >99% on-line time.
- Low running costs with low maintenance requirements and simple-to-follow procedures.
- No filtering, as experience showed that filtering did not work.

The BioTector® Solution

The BioTector® 970, with the high range valve and ceramic circulation pump easily complied with these specifications:

- The Wide Bore High Range Valve allows a small but unfiltered sample to be analysed by the BioTector®.
- The Ceramic Circulation pump, in addition to being highly resistant to grit and hard particulate, breaks up the fatty globules found in dairy waste, ensuring full oxidation of the sample.
- Additionally, a cleaning cycle valve is available which allows the cleaning of the sample lines with a suitable cleaning fluid. See DS 6: Glanbia Cream Separator for additional details.

This layout, combined with the BioTectors® ability to accurately correlate COD to TOC ensures that the BioTectors® provides accurate and reliable data for the control of Dairygold's Bio-tower.



**View of the Bio-tower
in Dairygold.**