

Brewery, Beer Stabilisation

Disposable Cartridge Filters, Benelux

Industry Sector:	Food and Beverage
Application:	Brewery
Products:	Fluorofil™, Polyfil™ II, Trapfil™, Microfil™
Primary Motive:	Cost reduction and longer life cartridges
Location:	Benelux
Project Date:	2014



Customer Overview:

A Benelux brewery which sells over 3 million hectolitres of beer annually. The brewery has become a major player in the international beer markets, with 85% of its production destined for export, marketed as both A brands and private own-label brands.

Customer's Problem:

The company had long encountered difficulties stabilising the beer and was frustrated with the short service life of the filters used for yeast removal and the capture of PVPP particles. Being a small, family-run brewery, production cost saving was an important consideration.

A filtration system was installed on site, which is supplied with competitor filters as standard. However, these filters were not suitable for the application, leading to short filter-life and higher maintenance costs. This is a well known problem with the system, as customers do not feel confident changing brand.

Porvair Solution:

The company have been working with Porvair Filtration Group since 2009. Porvair was able to offer a cost saving on the competitor's equivalent filters, which were already in use, by installing Fluorofil™, Polyfil™ II, Trapfil™ and Microfil™ disposable polymeric filter cartridges.

Project Overview:

For the removal of yeast, Porvair supplied its Microfil™ 1µ, which is a more cost-effective solution and has a longer service life than the competitor's equivalent.

The 54 filters supplied with the filtration system are alternative meltblown filters. These low-cost filters block every 2-4 weeks. Porvair was able to substitute this for its Trapfil™ 5µ 40" elements and the lifetime of the cartridge is now 2-3 months.

The filtration system system is becoming increasingly popular, due to its easy set-up. Therefore, Porvair Filtration Group is working with the supplier to start testing, with the aim of supplying Porvair's filters as standard. This is strengthened by previous success with a brewery at Haacht.

Product and System Information:

- Fluorofil™ 0.2µ for sterile air
- Microfil™ 1µ for yeast removal and a safety filter
- Trapfil™ 5µ for PVPP particle removal final filter
- Polyfil™ 1µ - for microbial stabilisation as prefilter to sterilisation

Other Opportunities:

Any production facility using safety and trap filters, including the manufacture of ice tea, lemonade and fruit juices.

