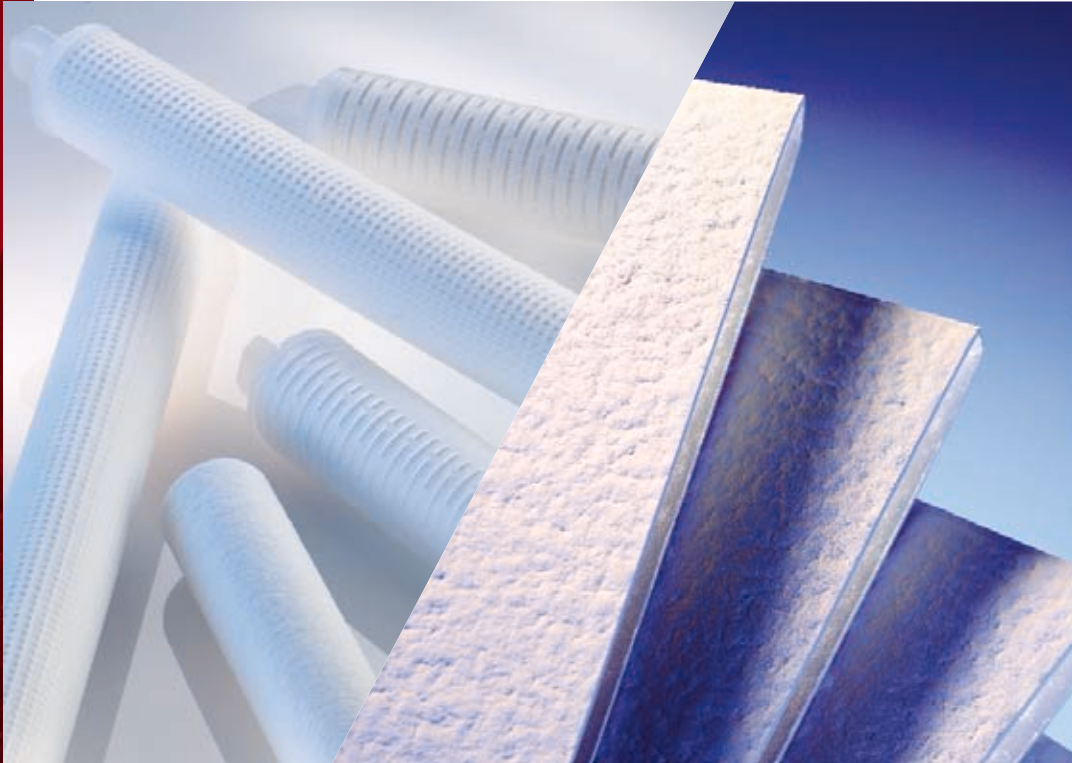
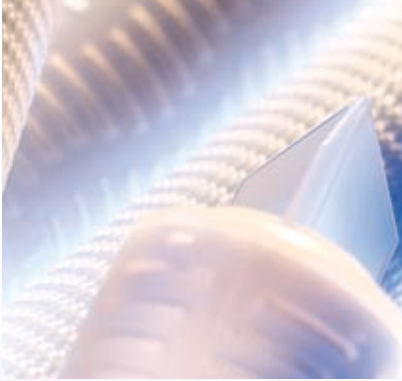


Filtration systems for beer/mineral water



BEGEROW





System performance for the beer and mineral water industry

High customer expectations require safe and economic complete solutions, not least for filtration tasks.

Our filtration product range covers the complete range of particle, fine and final filtration applications for beer and mineral water.

BECO filter cartridges

Filter cartridges are used in enclosed systems and are ideally suited for the complete range of applications from particle removal to fine filtration and final filtration. The BECO filter cartridges are optimized for the requirements of beer and mineral water production.

BECO-PROTECT KT

BECO-PROTECT KT depth filter cartridges are used for the following applications:

- ▶ As trap filters for particle separation
- ▶ For beer filtration after kieselguhr filtration and beer stabilization
- ▶ For mineral water filtration after de-ironing and prior to membrane filtration

BECO-PROTECT KT depth filter cartridges cover a retention range between 0.3 and 100 µm. In addition to different adapter codes, these depth filter cartridges are available in lengths of 10", 20", 30" and 40".

Further details can be found in technical information sheet 1 A 4.2.1

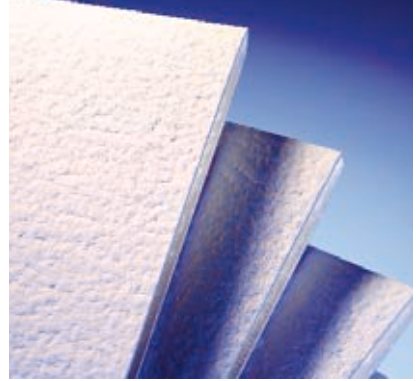
BECO-Membrane'PF

The BECO-Membrane'PF filter cartridge is a pleated membrane filter cartridge that can be checked for integrity. It consists of only two materials: a polyvinylidene fluoride (PVDF) membrane and polypropylene. The filter cartridge is used for the sterile filtration of beverages such as wine, beer, fruit juice and mineral water.

BECO-Membrane'PF filter cartridges are offered with retention rates of 0.22, 0.45 and 0.65 µm. In addition to different adapter codes, these membrane filter cartridges are available in lengths of 10", 20", 30" and 40".

Further details can be found in technical information sheet 1 A 4.3.1.2

System performance for the beer and mineral water industry



BECO support sheet for precoat filtration

▶ BECO ENDURA®

BECO ENDURA® is used in beer production as a support sheet during precoat filtration. High wet strength and an optimized surface enable a service life up to 30 precoat cycles, depending on the liquid to be filtered and the filter aids used.

Further details can be found in technical information sheet 1 A 2.3.4

BECO depth filter sheets

The application of BECO depth filter sheets is still the best method for the economic filtration of very bright beers. Filtration with BECO depth filter sheets reliably covers the complete range from particle removal to fine filtration and sterile filtration. They offer high brightness and at the same time safe removal of micro-organisms.

BECO beer range

The depth filter sheets of the beer range are optimized for the exacting requirements of beer filtration. Different types enable separation ranging from coarse particles and very fine colloidal hazing to yeast reduction and sterile filtration. Excellent regeneration characteristics ensure high service life.

Further details can be found in technical information sheet 1 A 2.1.1.6

BECODISC® stacked disc cartridges

▶ BECODISC® B..S.... standard range

BECODISC® B..S.... stacked disc cartridges are mainly used for the particle filtration of mineral water. The large internal surface area of the BECODISC® stacked disc cartridges offers high particle retention capacity for protecting downstream depth and membrane filter cartridges. The application of the cartridges in enclosed filtration systems ensures high functional reliability with excellent filtration performance.

Further details can be found in technical information sheet 1 A 2.5.5.8

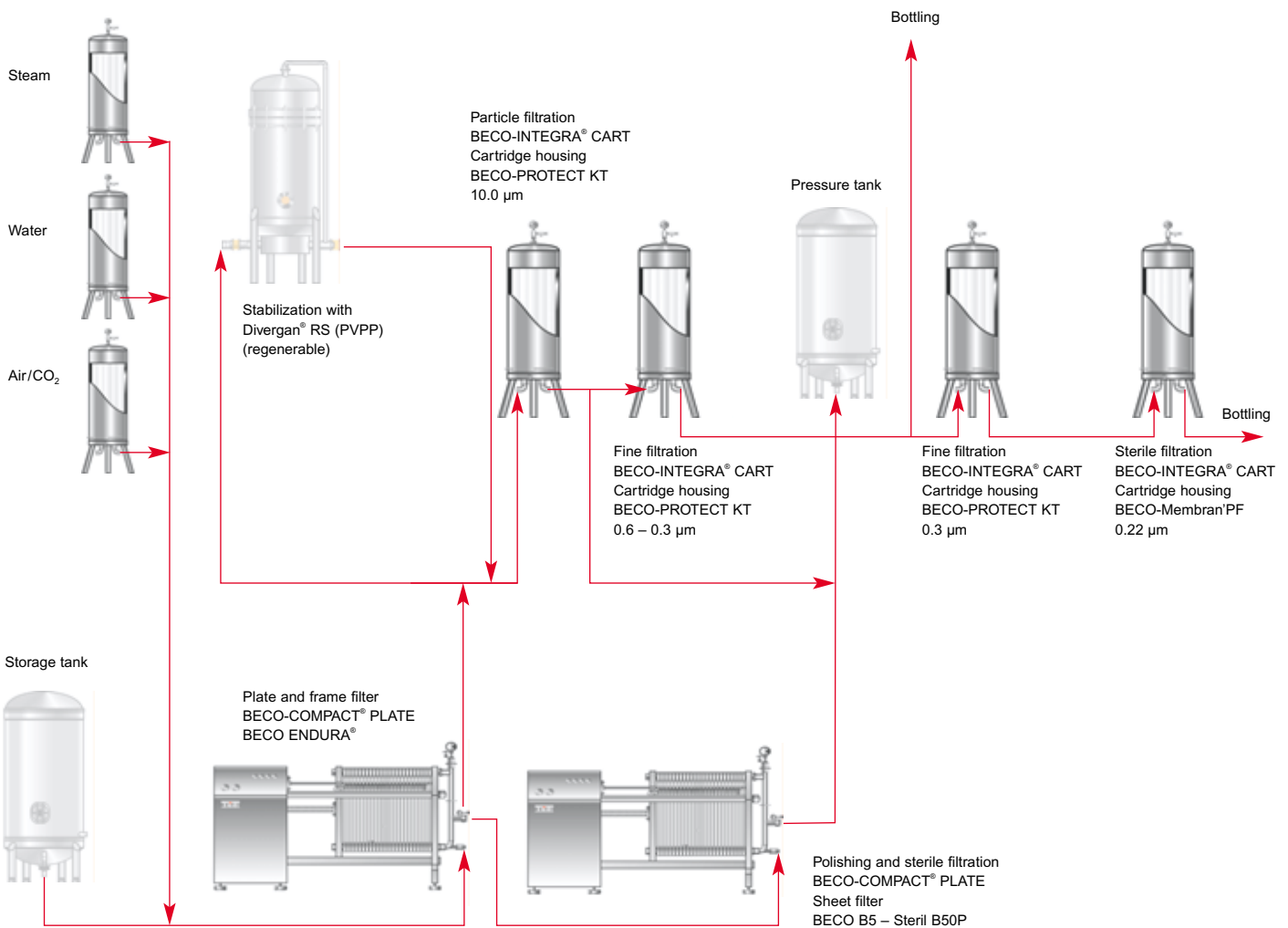


BEGEROW filtration systems for the beer industry

Worldwide, there is a continuing clear consumer trend towards cold-sterile filtered draught and bottled beer. Gentle beer production without heat treatment

requires sophisticated and reliable filtration technology that enables the safe removal of harmful micro-organisms while preserving the brightness of the beer.

The application of BECO filter cartridges and BECO depth filter sheets offers optimum safety, from yeast reduction to sterile filtration.



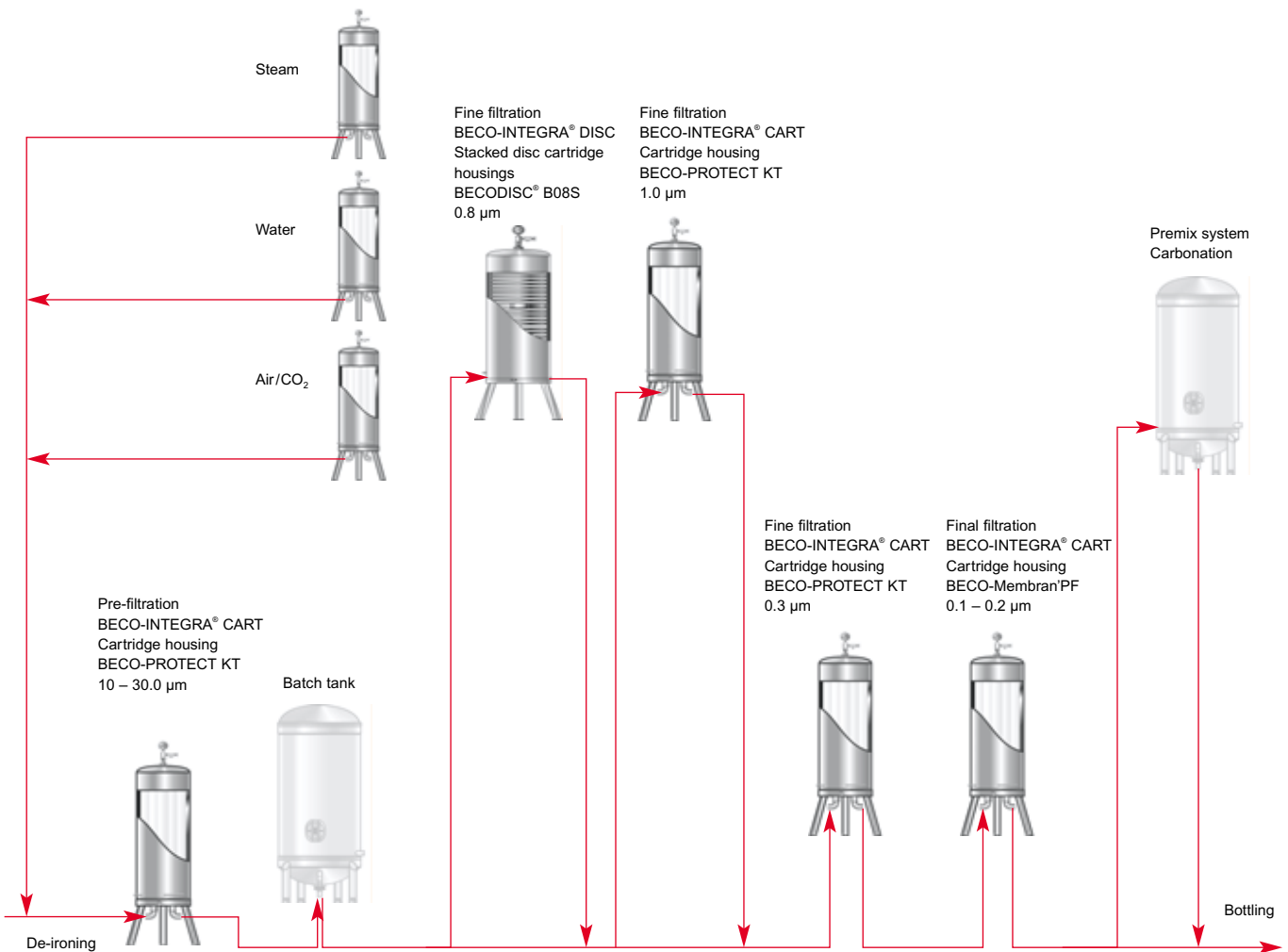


BEGEROW filtration systems for the mineral water industry

The production of mineral or table water and of product water for the non-alcoholic beverage industry or for industrial water requires sophisticated filtration technology. Reliable particle removal is particularly significant in this context.

With BECO depth and membrane filter cartridges, BECODISC® stacked disc cartridges and BEGEROW filtration systems, the BEGEROW product range ideally matches these requirements.

We can also offer suitable system solutions for your individual application.





BEGEROW filtration systems

Enclosed filtration systems

The BECO INTEGRA® product line is an enclosed system offering an alternative to classic filtration systems, wherever the protection of product and staff is a priority.

▶ BECO-INTEGRA® CART

Between 1 and 48 filter cartridges for pre- or sterile filtration purposes.

Different overall heights for filter cartridges with a maximum length of 40" enable optimum adaptation of the housing size to the product flow to be filtered.

Optimized filtrate chamber design, special surface treatment and fittings enable intense cleaning and optimum sterilization of the filtration system.

▶ BECO-INTEGRA® DISC

Stacked disc cartridge housings in different sizes, designs and types for installation between 1 and 4 BECODISC® stacked disc cartridges with filter areas between 1.1 and 15.6 m².

Multi-column cartridge housings for up to 6 columns with 4 stacked disc cartridges each and a filter area up to a maximum of 93.6 m² complement this housing range.

Classic filtration systems

▶ BECO-COMPACT® PLATE

Plate and frame filters for clarifying, sterile and precoat filtration.

Filter elements are available in sizes of 200 x 200 mm, 400 x 400 mm and 600 x 600 mm, and in different frame sizes with filter areas from 1.02 m² up to a maximum of 49.5 m² (further special sizes may be available on request).

Filtration systems

▶ StepFlow®

The implementation of client specific filtration tasks is realized through the assembly of filtration systems into an automatic or manually operated filtration system.

BEGEROW process technology offers a wide range of components and devices, including complex filtration systems.

Using these resources, the engineering specialists from the BEGEROW process technology section develop optimized solutions for each customer. They offer competent and practical support from the preparation of the requirements profile and its implementation in practice to delivery documentation and customer staff training.



The data and recommendations contained in this brochure are provided for guidance only.
They reflect current know-how and do not claim to be complete. No warranty is expressed or implied.

Users should always check the suitability of our products for their specific applications and exercise all due care in using them. The relevant instruction manuals and user notes should be followed carefully. We cannot accept any liability whatsoever for improper use.

Subject to change in the interest of technical progress.

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