



UniPure

For filtering wine, sparkling wine and fruit secco



 **KRONES**

The product filtration system for fine beverages



Wine and sparkling wine are beverages for connoisseurs. Therefore, high quality is also essential during production. The liquid's clarity is as important as its taste. And that is exactly what the UniPure is for. The product filtration system removes undesirable particles, suspended matter and microorganisms from wine and sparkling wine beverages, as well as fruit secco drinks.

At a glance

- Filtration system with candle filter
- Removes particles, suspended matter and microorganisms from wine and sparkling wine
- Two performance ranges:
 - 5,000 to 15,000 litres per hour
 - 7,500 to 30,000 litres per hour



The components



Each UniPure filtration system consists of a product line which can comprise up to four filter lines. Depending on the filtration task, each of these filters can be equipped with different filter elements in order to process different products, such as red wine and white wine.

Each of these filter lines comprises a coarse and a fine liquid filter. While the coarse filter is used for separating suspended matter and clouding substances, the fine liquid filter with a pore size of $0.45\text{ }\mu\text{m}$ (for instance for wine) makes sure that yeast and other beverage-spoiling microorganisms are discharged.



Product line with four filter lines



Utmost flexibility

Various production possibilities



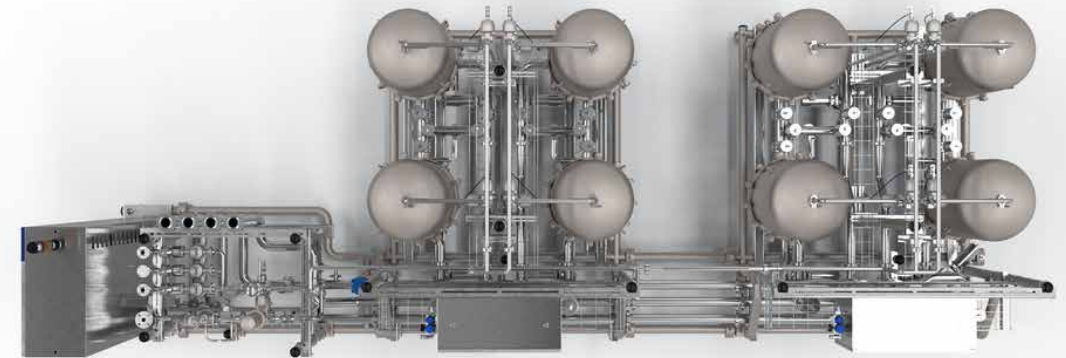
The UniPure can be equipped with a total of four filter lines. The individual production targets define how they are used:

High filtration outputs

Parallel operation of up to two filter lines for a maximum output of 30,000 litres per hour

Continuous production

Operation of only one filter line while the other one is being backflushed



Utmost flexibility

Various filter elements

Every wine-grower has his own formula for success when manufacturing his products. This is why Krones keeps all options open when it comes to the equipment included in the UniPure system: We cooperate with the most established manufacturers of filter elements and filter housings and configure the most appropriate filter for you which will ideally suit your requirements.



Utmost flexibility

Various cleaning options



As flexible as the configuration of the filter elements are the process steps and cleaning options offered by the UniPure:

Process steps

- Pressurisation with different gases possible:
 - Reduction of the oxygen pick-up
 - Reduction of mixing phases (push-out with pressurisation gas instead of process water)
- Fully automatic integrity test of the fine liquid filter for maximum production reliability



Backflushing and cleaning

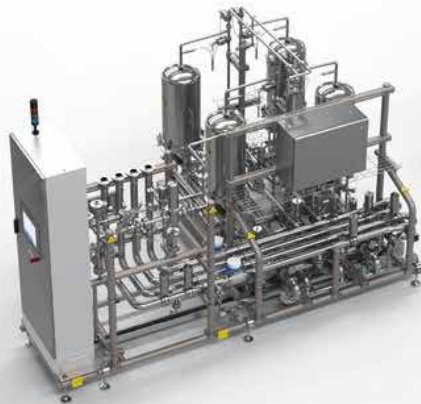
- Connection to an existing CIP system or configuration including a complete CIP module
- Cleaning and flushing independent of the production thanks to an equipment with two redundantly operating filter lines
- Sanitisation of the system by means of steam or hot water; depending on the specification, the pipe system can also be sanitised independent of the filter.
- Optional: integration of a separate filter unit to pre-filter the process water which is used for displacement or for backflushing.

Individually adjusted to the product

UniPure line concept

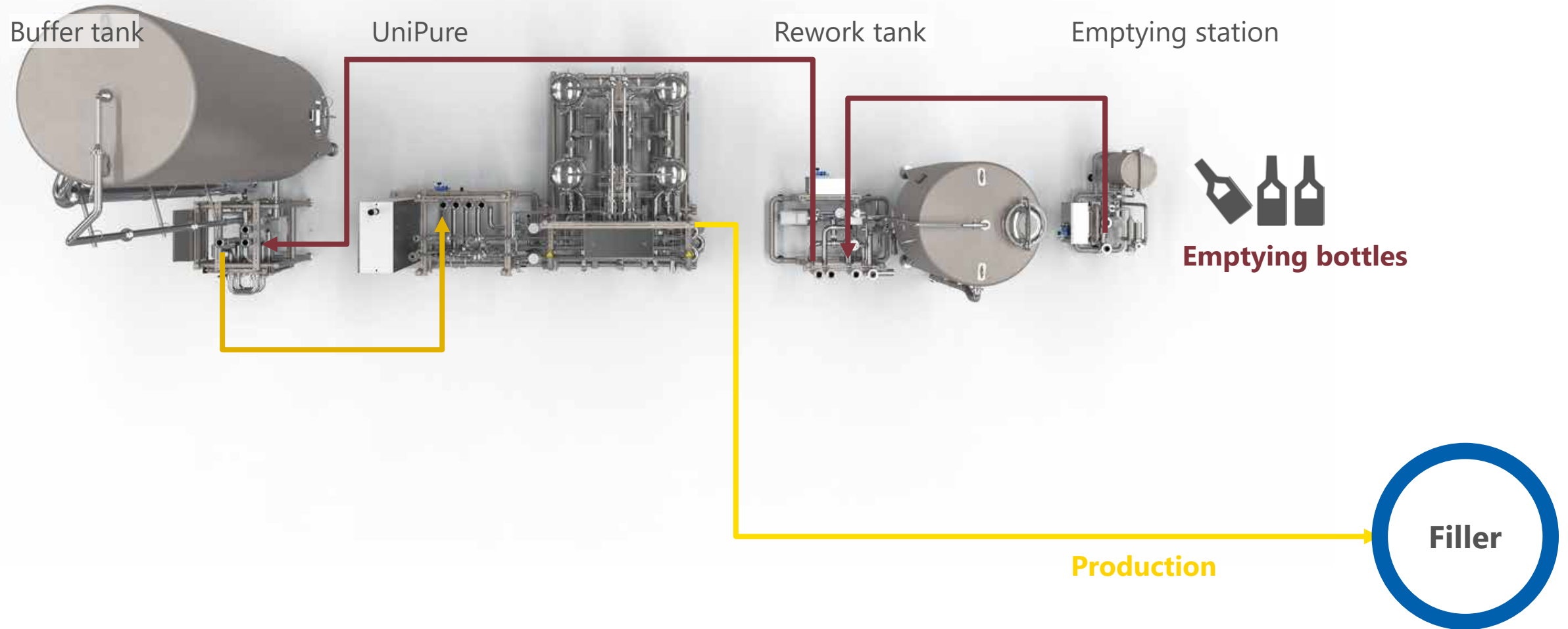


- Complete solutions from a single source
 - Mixing and carbonation with the Contiflow
 - Heating/cooling
 - Buffer tank solutions
 - CIP solutions for the sterile/unsterile area
- Avoidance of product losses when conditioning the filters through the use of a rework tank
- Individual CIP/SIP processes for the greatest possible flexibility



Line concept for wine

Production sequence



Utmost flexibility

Various equipment options



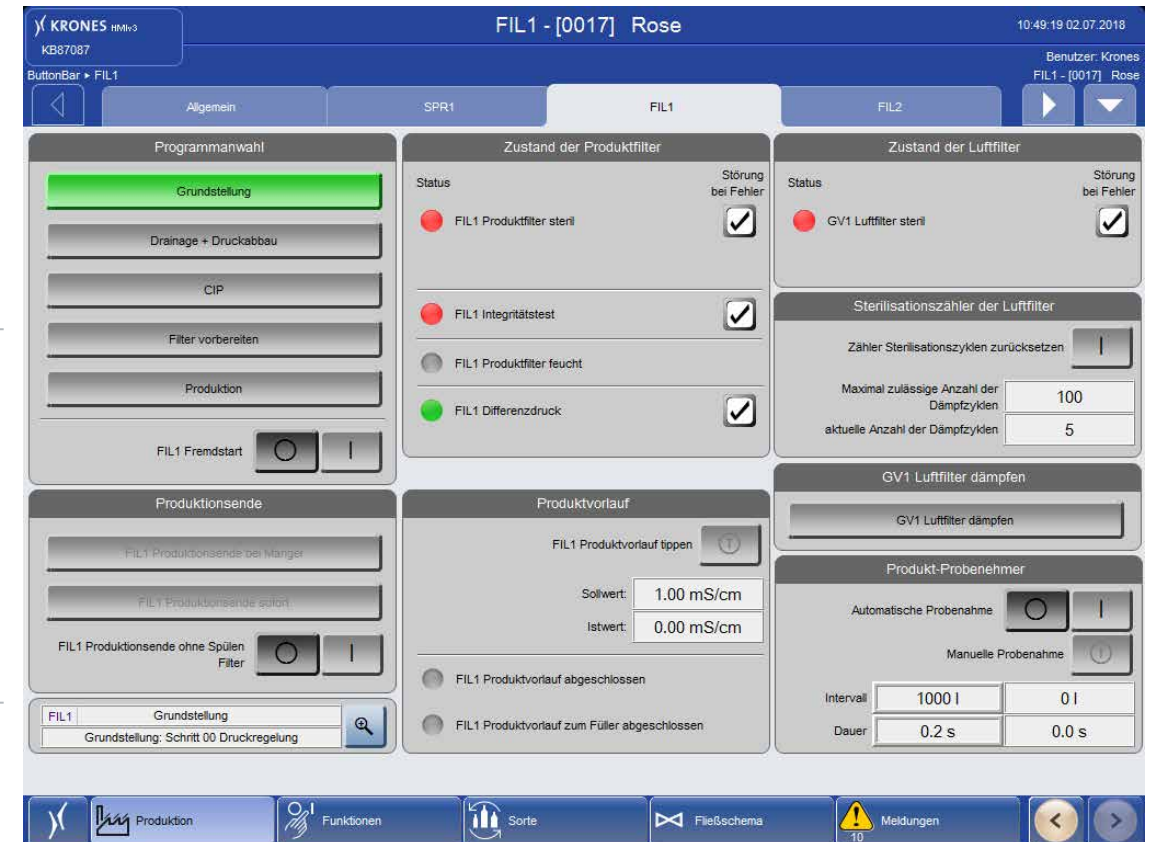
Even with regard to the equipment, virtually all your requirements can be fulfilled.

Automation and technical equipment

- Stand-alone unit with separate control system
- Integration of the control system into a Krones machine
- Integration into a line control system, such as the Botec F1 process control system

Evoguard valve technology

- Butterfly valves or double seat valves



Lifting device for easy maintenance



Changing the filter elements sounds actually quite easy: Manually open the connector clamp and lift the cover. However, due to the high housing weight, the operator usually needs the support of a roof-mounted crane to exchange conventional filters.

This is different with the Krones UniPure. Thanks to its optional lifting device, the filter system maintenance is substantially facilitated: With a special mobile lightweight gantry crane, the filter housing can be easily lifted and transported.



Benefits to you



Highly flexible operation

Regardless of the maximum output or simultaneous filtering and flushing: UniPure can be configured in such a way that it can be completely adjusted to suit your requirements.

Individually selectable components

Whether filter elements, housing, controller or valves, the Krones UniPure can be composed from a modular component system and allows the flexible equipment of the filter system to exactly suit your requirements.

Easy maintenance

The lightweight gantry crane substantially facilitates the maintenance and the replacement of the filter elements: It moves over the housing from the side, lifts the cover and the filter element can be exchanged without a great deal of effort and labour.

Low transport costs

With its maximum design of 8.7 x 2.2 x 2.3 metres, the product filtration system is very compact which also facilitates transportation. Since the entire system can be placed in one sea-freight container, the costs for shipment are accordingly low.

Requesting a new machine

You can easily send a request for a non-binding quotation in our Krones.shop.



Everything from a single source



KIC Krones cleaning agents make your machine shine

An immaculate production environment is essential if your product is to shine. KIC Krones provides you with the optimum cleaning agents and disinfectants for each individual production step.

High-quality components from Evoguard and Ampco

Are you looking for shut-off, separation or control valves? For hygienic or aseptic applications? Would you like to have pump technology that perfectly fits into your machines? You will find exactly what you are looking for at Evoguard and Ampco Pumps. The two Krones subsidiaries cover the entire spectrum of process technology components that you need for high-quality production.



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