

### Requirements and Solutions

The container-type KHS CIP-C is ideal for sanitizing process components, product lines, and fillers. The KHS Innopro CIP-C system is designed and perfectly matched to accommodate caustic and hot water tanks as well as a primary water feed tank for reliable separation from the main water supply. This system is equipped with a dosing facility for adding cleaning media and additives.

### Key Features

- Compact design enables the system to be packed and shipped as one unit in a standard oversea container
- Heating section designed for steam
- Conductivities and temperatures measured in the system return
- Removes product residue, deposits, dirt, and product-contaminating germs from the system to be sanitized
- Disinfects the surfaces inside flow-through piping and components
- Cleaning capacity perfectly matched with the type of application
- Easy and highly flexible selection of cleaning sequences and media parameters

### Standard Equipment

- Three-tank system with caustic and hot water tanks as well as a primary water feed tank to reliably isolate the CIP system from the customer-provided main water supply
- Equipped with a pneumatic dosing system for cleaning media
- Designed for cold and/or hot water and hot caustic cleaning
- All components necessary for operating the system such as pumps, valves, heaters, media tanks, etc. are compactly incorporated ready for operation in a stainless steel framework
- Tanks, piping, etc. are made of 1.4301 stainless steel (AISI 304)
- Electropneumatic temperature control for setting and regulating cleaning temperatures
- Plate heat exchanger for heating cleaning media with pressure-reduced, saturated steam (max. 10 bar)
- Steam supply through pressure reducer
- Manually operated CIP system
- Stainless steel machine design (AISI 304)



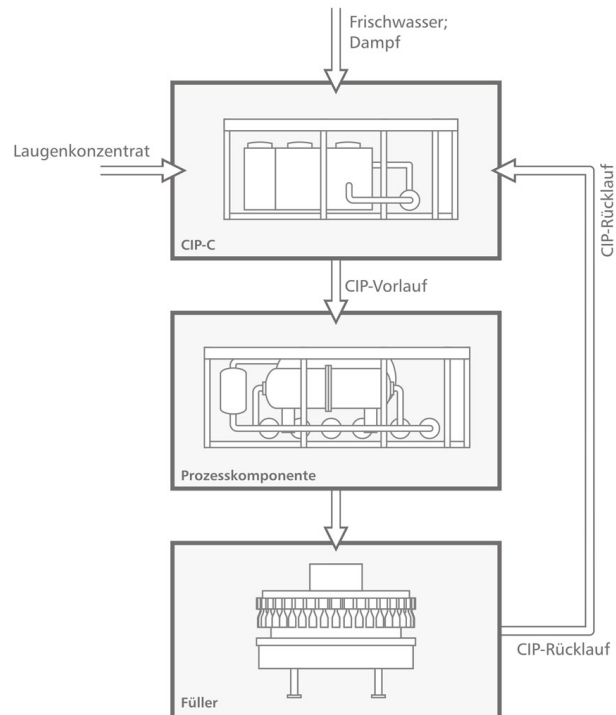


### Advantages

- Cleaning processes exactly matched with the parts of the system to be sanitized
- Easy-to-maintain, long-lasting, stainless steel system (AISI 304)
- Small footprint and low cost of investment
- Perfectly matched with KHS process and filling technology
- Machines packable in containers guarantee cost-saving, fast installation and commissioning at the customer site:

### Plug & Produce™

- Designed as an integrated processing unit in conjunction with fillers, mixers, and flash pasteurizers



#### Service

- Worldwide service
- Customized system design
- Complete line design
- Turnkey system planning and manufacture
- Fast supply of spare parts

#### Options

- Fully automated system including visualization on a touch screen monitor
- Energy-saving, hot media tank insulation
- Tanks made of 1.4401 (AISI 316)
- Cleaning capacity of up to 45m<sup>3</sup>/hr / tank volume: 4,500 l.

#### Technical Data

##### Cleaning capacity (nominal)

30/45 m<sup>3</sup>/hr

##### Primary feed pressure

4 bar

##### Dimensions (maximum)

Width 2.3 m x height 2.3 m x depth 5.7 m  
(Packable as one unit in a standard container)

##### Number of batch tanks

3

##### Batch quantities and media

- One 1,000 liters. Fresh water, uninsulated
- One 3,000 liters. Hot water, insulated  
(Fresh water tank insulation available)
- One 3,000 liters. Hot caustic, insulated

##### Degree of automation

None/manual operation only

##### Heating medium

Saturated steam

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