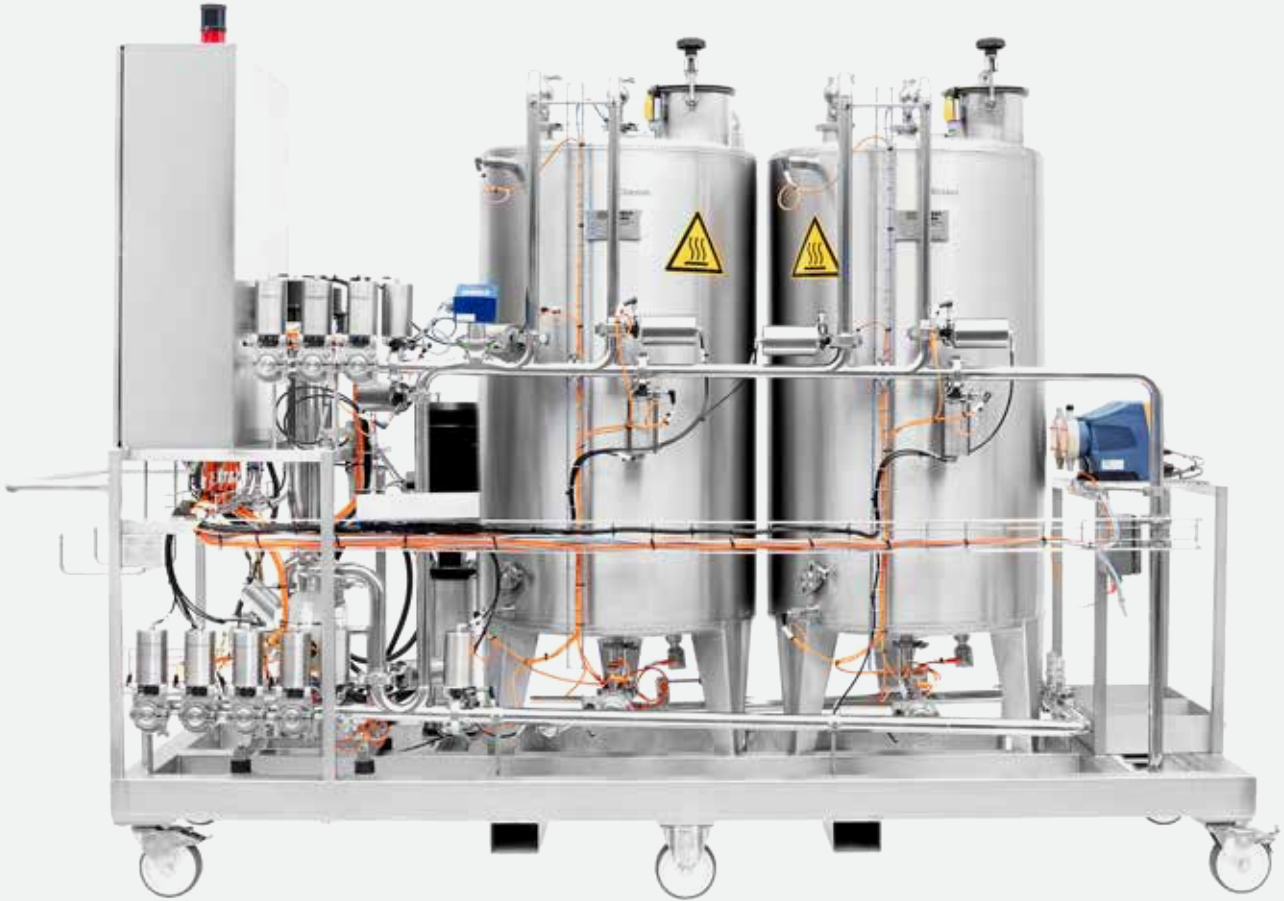


PARTNER IN STAINLESS STEEL

KHTEC®



reliable | practice oriented | functional

CIP-Systems

Modular design for customized cleaning solutions



PHARMA



CHEMISTRY



COSMETICS



FOOD



BEVERAGE



WINE

FEATURE

With our modular CIP-systems (CIP = cleaning in process), K+H offers you a customized cleaning system to meet all your requirements. The systems are designed and tailored to your needs only after a series of cleaning trials have been run. By means of a cold or hot procedure, you can clean your processing systems or individual components in the best possible way, without having to disassemble the system (stationary and mobile versions). By using only high-grade materials, we can guarantee a high quality and long service life.



FUNCTIONS OF CIP-SYSTEMS

Disinfect systems and components
Removal and cleaning of:

- dust, lime, protein, oxide films, grease in mucilaginous and crystallised forms
 - production residue
 - germs
 - tartaric acid crystals and organic sediments
-

CIP-SYSTEM CONCEPTS

CIP-systems have been designed for the following functional range:

- cleaning of tanks, filter units, filling machines and heater modules
- mobile and stationary systems with one tank or complex systems with two or more tanks
- complete integration in the processing systems, which have to be cleaned, or simple manually-operated systems
- circulating or single-stage cleaning systems

SCOPE OF PERFORMANCE

- fully automated systems with intuitive control via 15" touch display
- alternatively, manually-operated system on demand
- perfect layout and design of systems due to previous cleaning trials
- customized design of tank sizes and cleaning cycles
- individual configuration of cleaning cycle according to requirements
- metering of leach and acid by means of metering pump
- heating system:
 - > mobile, by means of electric heating elements up to appr. 15 kW
 - > hygienic with steam-driven tube bundle heat exchanger
- re-cooling of cleaning liquid
- filter station designed to clean CIP liquid in recirculation mode
- integrated conductivity measurement to regenerate cleaning liquid
- all system components are made of easy-to-clean and hygienic stainless steel frames, either mobile or stationary version

ENERGY-EFFICIENT CIP SOLUTIONS

- double-walled CIP tanks with internal insulation
- insulated hot water or steam components (pipe installation), stainless steel case
- pump drive with frequency converter, ensuring best possible adaption to downstream cleaning concepts

K+H COMPLETE CLEANING SOLUTIONS

- in combination with the target stream cleaner of the OCS series, adjusted to your specific requirements
- communication and signal exchange with filling components via field bus or coupler relay
- RLV-systems (cleaning-air-valve-combination)
- built-in spray pipes with spray balls
- rotating nozzles of RCS series as standard nozzle for internal tank cleaning and engine-driven cleaning systems of the OCS series



KHTEC®

KH TEC GmbH	KH vessel TEC GmbH	KH process TEC GmbH
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An der Hessel 5 | D-75038 Oberderdingen | Germany
Phone +49 (0) 7045/980-0 | Fax +49 (0) 7045/980-27 | info@kh-tec.de

KH-TEC.com