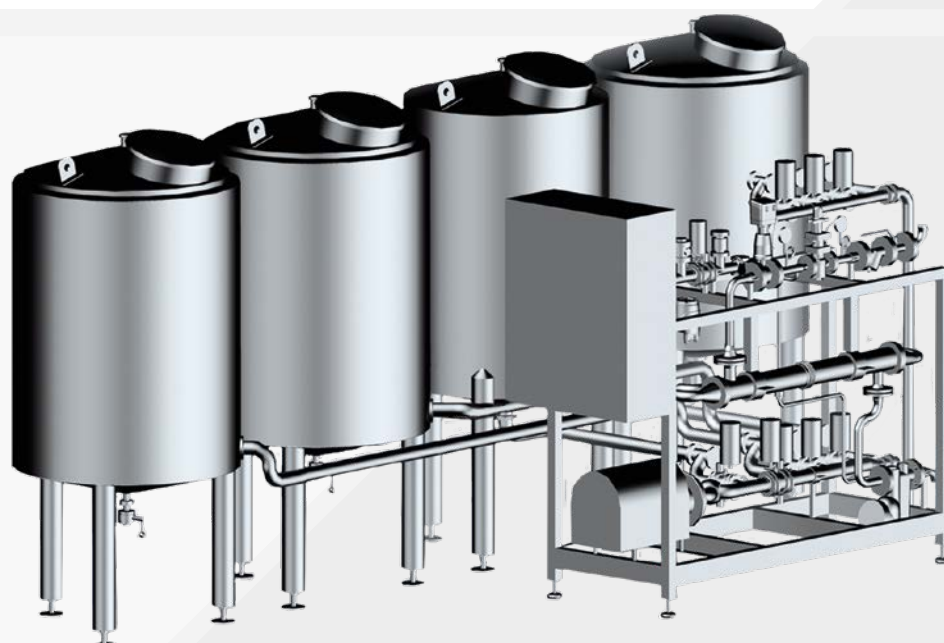


## PROXES SYSTEMS CIP SYSTEMS

### Optimal Cleaning of Food Equipment



#### PROXES SYSTEMS CIP-SYSTEME

Recommended for the cost-effectiveness of your cleaning and the security of operating an hygienically impeccable system!

Hygiene and production safety is the basis for success in food production. For this reason the high quality of ingredients is just as important as a cleaning system that meets the highest standards.

ProXES Systems CIP Systems fulfill these requirements. Designed as modules, they can be adapted to meet the needs of any type of food equipment. This makes ProXES Systems CIP Systems especially economical.

#### ADVANTAGES FOR YOUR PRODUCTION

- /// OPTIMIZED CLEANING TIMES
- /// MINIMIZED DOWN TIMES
- /// HIGHLY EFFICIENT CLEANING
- /// LOWER PERSONNEL COSTS COMPARED TO MANUAL CLEANING
- /// REDUCTION IN MATERIAL COSTS DUE TO CONTROLLED USE OF CHEMICALS ETC.
- /// COMPLIANCE WITH AND MONITORING OF REQUIRED CLEANING PARAMETERS (FLOW-RATE, CONCENTRATION AND TEMPERATURE)



# PROXES SYSTEMS PROCESS ENGINEERING

DEPENDING ON REQUIREMENTS PROXES SYSTEMS CIP SYSTEMS CAN BE ADAPTED AS FOLLOWS

## AS A SINGLE USE SYSTEM

- /// FRESH CLEANING SOLUTION FOR EACH CYCLE
- /// PARTICULARLY IMPORTANT WHEN CLEANING
- /// HIGH SOIL ITEMS

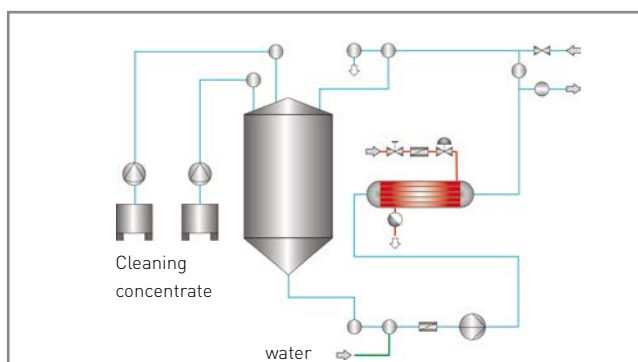
## AS A RECOVERY SYSTEM

- /// MULTIPLE USE OF CLEANING SOLUTIONS
- /// MULTIPLE PARALLEL CIP LOOPS POSSIBLE
- /// VERY ECONOMICAL, ENVIRONMENTALLY-FRIENDLY

## AS A SATELLITE CLEANING SYSTEM

- /// PRIMARY SUPPLY OF CLEANING SOLUTIONS
- /// INCREASES THE FLEXIBILITY OF SYSTEMS

### Single Use System



## PROXES SYSTEMS CIP SYSTEMS DESIGN

ProXES Systems CIP Systems can be equipped with one to four (or more) tanks – pre-rinse water tank, caustic tank, acid tank and/or fresh water tank. To this is added the number of desired CIP loops, i. e. the number of cleaning processes running at the same time. The CIP system is accordingly designed with one to four (or more) CIP modules.

The modular design allows ProXES Systems CIP Systems to be easily customized and expanded. The CIP modules are completely pre-assembled and due to their compact dimensions are easily transported. The required tanks are assembled on site next to the CIP modules and connected with the prepared piping.

The caustic or acid concentrate is added to the appropriate tanks by means of metering modules via pneumatically actuated diaphragm pumps. For satellite cleaning instead of cleaning concentrate, caustic solution or acid solution is supplied directly from another central cleaning system.

For hot or cold disinfection the disinfecting agent is metered via diaphragm pumps directly into the CIP loop.

It is of course possible to expand or customize the CIP systems to the requirements of the entire plant. The ProXES Systems CIP System is controlled by a SIMATIC S7 operated via a SIEMENS SIMATIC operator panel. The switch cabinet is attached to one of the CIP modules.

# CIP-SYSTEMS

Different production plants require different cleaning processes.

Nowadays food production is unimaginable without "Cleaning in Place" systems. CIP means the automatic cleaning of production plants – without them having to be disassembled or substantial changes being made compared to their operational state.

In doing so, hygiene is always the top priority. Thanks to years of experience, we are able to offer optimal solutions and assist you in the design of the overall cleaning concept.



PROXES SYSTEMS CIP-MODULE

# TECHNICAL DATA FOR EACH CIP MODULE

## TYPICAL OUTPUT FOR ONE CIP SUPPLY CENTRIFUGAL PUMP:

20,000 l/h at 4 bar pressure, 5.5 KW or

30,000 l/h at 5 bar pressure, 7.5 KW or

40,000 l/h at 5 bar pressure, 11 KW

(A flow rate of at least 1.5 m/s is recommended for pipe cleaning)

## TYPICAL TEMPERATURES CAUSTIC (NaOH):

70–90 °C

## TYPICAL TEMPERATURES ACID (HNO<sub>3</sub>):

60–70 °C

## DISINFECTION:

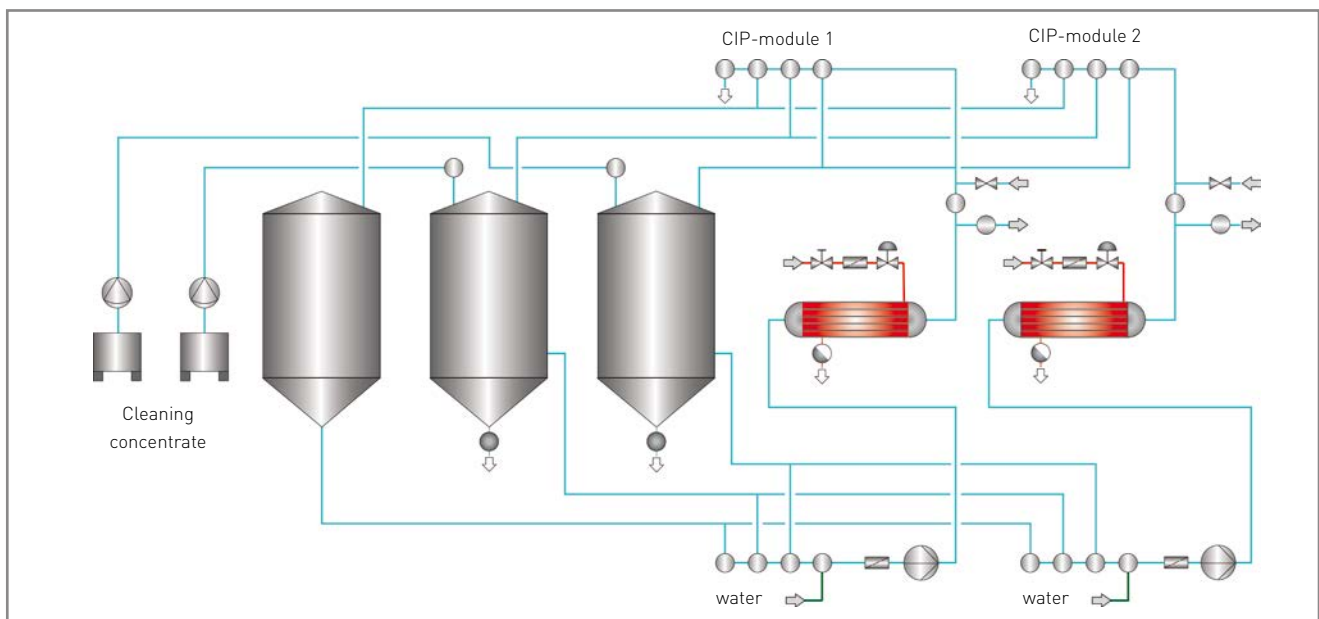
cold or warm

## DIMENSIONS FOR EACH CIP MODULE:

approx. 800 x 2500 mm

Plus the dimensions of the tanks

Recovery system



# Stephan Machinery

## WORLD WIDE AT YOUR DISPOSAL

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