



## SYSTEM CIP



**YOUR SOLUTION PARTNER**



## APPLICATION

CIP containers negate the need for frequent preparation of sanitizing solutions, ensuring consistent dilution for multiple cycles, reducing the risk of operator burns.

Continuous heating of solutions in the CIP system improves efficiency, saving time and electricity in cleaning processes, requiring less human effort.

The CIP system's constant temperature maintenance enhances cleaning and sanitation efficiency, meeting legal hygiene requirements and resulting in impurity-free equipment.

The inclusion of a neutralization vessel simplifies and ensures safe neutralization of used solutions, complying with environmental laws and preventing damage to sewerage systems, enhancing overall safety.

## DESIGN AND FEATURES

The system includes the following elements:

1 insulated 300L tank for preparing the cleaning solution.

Electrical resistance heating with temperature regulation

fitted in the tank. Constant level in the tank using a pressure

switch and a control panel display. Collectors with manually operated butterfly valves.

Base frame with wheels. Stainless steel electric panel.

## MATERIALS

Tank	AISI 316L (1.4404)
Piping in contact with the product	AISI 316L (1.4404)
Base frame and other steel parts	AISI 304 (1.4301)
Pump	SC28 4KW

## MECHANICAL SEAL

Rotary part Ceramic (Cer)

Stationary part Carbon (C)

## GASKETS EPDM

Electrical resistance 2x7,5 KW

Tank Insulation Mineral

Wool

## OPERATING LIMITS

Tank requiring cleaning up to 3.000L

Cleaning flow rate 10.000L/H

Cleaning Pressure 3 Bar

## USER BENEFITS

Pre-rinsing – rinsing of the production equipment using cold or hot water. Cleaning – cleaning of the production equipment using circulated hot water. Rinsing – thorough rinsing of the production equipment using cold or hot water. Chemical disinfection (sanitation) – washing of technology using alkaline and then acid sanitizing solution at the desired concentration. Rinsing – thorough rinsing of the production equipment using cold or hot water. Neutralization – is performed after the finish of several cleaning and sanitizing cycles – mixing alkaline and then acidic sanitizing solution to achieve neutral pH of the solution and their discharge to the channel.

## OPTIONS

300L tank and CIP return pump for water recovery: Recommended for water saving and recovery in rinsing after sterilization.

Dosage pump: It sets the CIP solutions to enter the system.

Conductivity Meter: It measures the cleanliness of the system in the return line.

Neutralization Container: The neutralization container provides easy and safe neutralization of the used acid and alkali disinfectant solution before pouring it into the channel.

Self-cleaning kit: Spray balls and necessary stainless piping are included in this kit. The kit is for the CIP system to clean itself.

Hose cleaning kit: Various valves and the necessary stainless pipe line are included in this kit. This kit is for cleaning the pipe or hose line in the system.

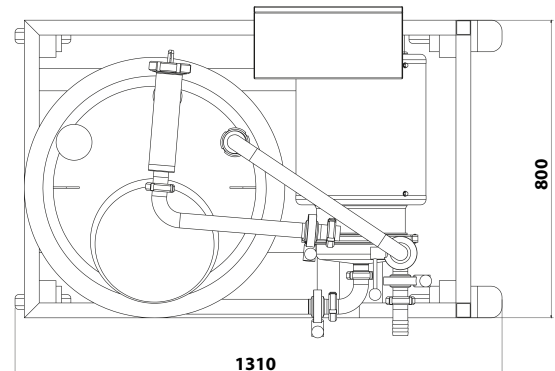
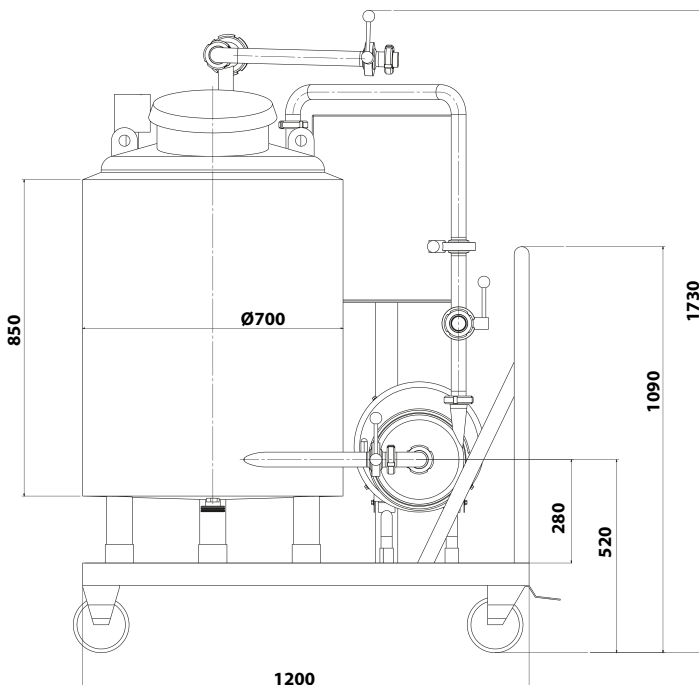
Sight Glass

Flow Rate Meter

Tank insulation and jackets

Spray Ball

## DIMENSION MANUAL CIP SYSTEM WITH 1 TANK





**Marfil Group Sp. z o.o. spółka komandytowa**

Ul. Chełmżyńska 70 04-247 Warsaw / Poland

**Mobile:** +48 506 197 962 - **Phone:** +48 22 610 19 82

info@flussmann.com - www.flussmann.com