PRODUCT CATALOG

TMXFLOW

CIP SYSTEM



CIP SYSTEM

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1 Inital Rinse

2 Caustic Wash

3 Inter Rinse

4 Acid Wash

5 Inter Rinse

6 Sterilant

6 Final Rinse

Application

Clean-In-Place technology. The CIP stations are mobile or static machines to the chemical cleaning, sanitation and sterilization of the tanks and all piping routes. The CIP equipment provides heating and circulation of alkaline and acid chemical cleaning solutions using a pump through pipe system, hoses and sanitary shower that sprays sanitary solution on interior walls of the sanitized vessel and removes all dirt and deposits from inside the pipelines, fittings, tanks and also from all other equipment that come in contact with food and beverages.

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

Tanks requiring cleaning up to ..... 3.000 L
Cleaning flow rate ..... 10.000 L/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.

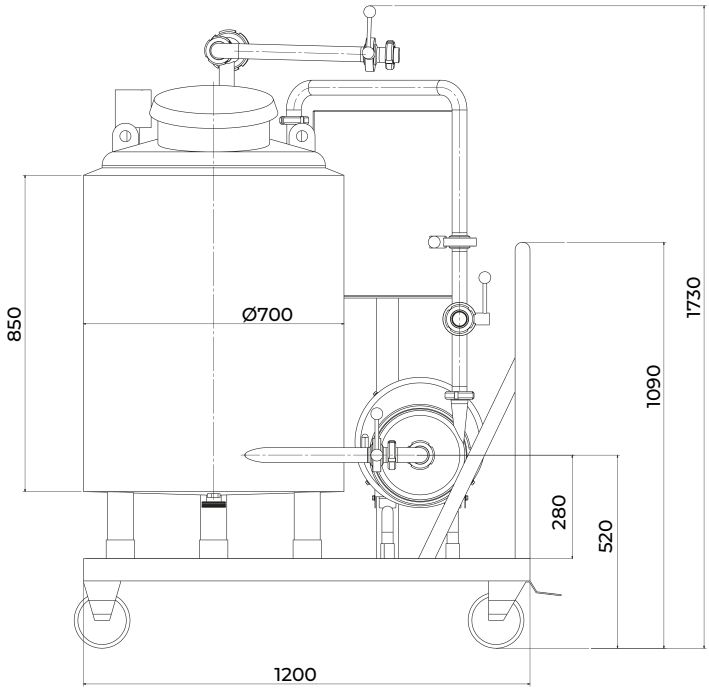
CIP SYSTEM

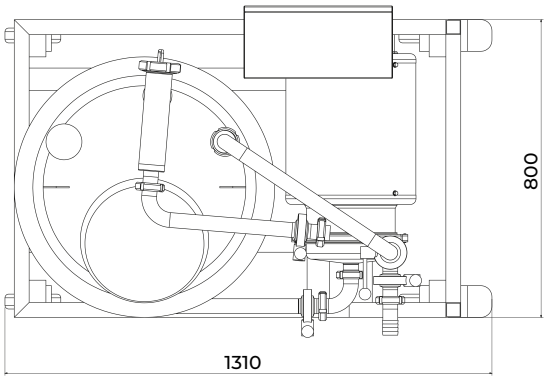
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Options

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





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