

CIP RO Station



CIP RO range compatible with RO products.

Clean In Place Reverse Osmosis (CIP RO) is a station range compatible with RO products, offering smaller units, adjusted flows and a real plug & play design to fulfill all of your needs. Plug & play unit suitable for transportation into a container. Cleaning of fouled or scaled RO membranes. Suitable for Sirion Advanced/ Pro, Sirion Mega, Opamem, Nurion, Terion S and Terion. All Versions available according to European standards.



Flow rates
From 3.6 to
96 m³/h



Power



General
Industry



FEATURES & BENEFITS

- Manual operation as a standard
- Rectangular tank for easier manual chemicals filling
- CIP solution recirculation allows controlling solution flow in order to manage CIP on first stage or second stage of the RO with different flowrates.
- Dry run monitor; pump protection
- Frequency controlled variable speed pump can save up to 50% of electrical power required by conventional systems (option)
- Skid-mounted, standardized systems; short lead times, quick installation and start-up.
- Semi-auto CIP through Sirion Mega, Terion or Nurion HMI(option)
- CIP Small range, 110, 210 and 320 units skids over wheels for CIP mobility
- FAT tested

HYDREX® CHEMICALS

Recommended chemicals according foulant:
Inorganics colloids, Metal Oxides: Hydrex 4900
Sulphates, biological and organics: Hydrex 4501
Biological: Hydrex® 4201 - Hydrex® 4202



APPLICATIONS

CIP RO Station for Sirion Advanced / Pro, all Sirion Mega, Opamem, Nurion, Terion and Terion S units.



OPTIONS

- Pump VFD
- Ejector for chemicals filling into CIP tank
- Electrical heater for better cleaning performances
- Flowmeter
- PLC Version for semi-auto CIP management through RO's HMI (with PLC).

ASSOCIATED SERVICES

Local after-sales service and support teams offer preventative and corrective maintenance programs to ensure the long-term, efficient operation of installed plant.





System Operating Parameters

Model	Unit	Small Range	110	210	320	420	840	1260
CIP Flowrate ⁽¹⁾	m ³ /h	3.6	8.0	16.0	24.0	32.0	64.0	96
Installed Power ⁽²⁾	kW	0.75 / 4.5	1.5 / 5.0	3.0 / 10.0	5.5 / 14.0	5.5 / 22.0	11.0 / 42.0	15.0 / 66.0

⁽¹⁾ @ 3.5 barg⁽²⁾ Without Heater / With Heater

System Dimensions

Model	Unit	Small Range	110	210	320	420	840	1260
Total Installed Length	m	1810	1810	2100	2100	2650	3000	3200
Total Installed Width	m	1366	1366	1520	1520	1600	1800	1800
Total Installed Height	m	1728	1728	1845	1851	2030	2185	2390
Empty Weight	kg	365	409	633	711	835	1129	2502
Operating Weight	kg	626	670	1340	1516	2427	4323	6774
CIP Tank total volume	L	240	240	650	850	1500	3000	4000

Pipes Connections

Model	Unit	Small Range	110	210	320	420	840	1260
CIP concentrate outlet	DN	40	40	50	65	65	100	100
Concentrate return	DN	50	50	50	50	65	100	100
Permeate filling	DN	50	50	50	50	65	80	80
Permeate return	DN	50	50	50	50	65	80	80
Drain	DN	40	40	50	50	50	50	50

Connection Spec: Flanges EN1092-1 PN10

Materials of Construction

Skid	Epoxy coated carbon steel
Control Cabinet	Mild Steel, RAL7035, Models up to 320 IP65 Models 420-1260 IP54
Low pressure Pipework	U-PVC

Feed water Requirements

Parameter	Unit	Value
Minimum water temperature	°C	5
Maximum water temperature	°C	45
Operating pH range	-	1 - 12