SARTURIUS

Clean In Place System (CIP) – Essential Range

To Be Connected to a Manual Filtration Skid – Essential Range



Product Information

All Manual filtration skids from the Essential range can be connected to a CIP system. It produces and maintains hot water up to 90 °C | 194 °F. It supplies filtered water for the filling line (filtration skid, piping and bottling machine) either for cleaning purposes at 50 °C | 122 °F or for sterilization at 90 °C | 194 °F. Exists in 1000, 1500 and 2000 liters.

Applications

It supplies filtered water for the filling line (filtration skid, piping and bottling machine) either for cleaning purposes at 50 °C | 122 °F or for sterilization at 90 °C | 194 °F. The CIP System optimizes water consumption for the rinsing, cleaning and sterilization phases.

CIP System configuration dependent on filling line specification

CIP System	Up to 2000 Btls/hr		Up to 5000 Btls/hr	
	2 stage filtration	3 stage filtration	2 stage filtration	3 stage filtration
1000 L	•	•		
1500 L			•	
2000 L			•	•

Basic Configuration

- Cleaning flow control by manual valve and hot water pump
- Hot water unit (90 °C | 194 °F) by electric resistor
- Hot water unit (50 °C | 122 °F) by thermostatic mixing valve
- Prefiltration of incoming water
- Water temperature maintained
- Programmable tank filling and water heating to align with off-peak hours

Advanced configuration - available options

- Automated sterilization module with integrated data traceability
- Recirculation loop accessory for filtration skids & bottling lines, limiting water loss from sterilization cycles (up to 80% of recovery)
- Integrity testing automation module for wine final filter on the filtration skid with data traceability
- Automated dosing kit for oenological adjuvants on the filtration skid
- All modules are controlled through PLC (Programmable Logic Controller) System.

Equipment on the skid

2000 L CIP System
Х
Х
Х
Х
х
2000 L
2×18 KW
1×30"

Options

	1000 L CIP System	1500 L CIP System	2000 L CIP System
Automatic start hot water pump	Х	Х	Х
Automatic sterilization	Х	Х	Х
Recirculation	Х	Х	Х
Dosing arabic gum	Х	Х	Х
Integrity test	Х	Х	Х
Recirculation loop	Х	Х	х

Technical Data

Main construction material	304L stainless steel
Piping surface finish	 Inner surface Ra < 0.8 μm / welded seam area Ra < 1.6 μm Outer surface Ra < 1.0 μm
Insulation specification	50 mm (1.97 in) polyester + external PVC cover
Inlet & outlet connection	DN25
Power supply	Control cabinet: 400 V 3P+PE 40 Kw
Frame design	Square pipes structure
Frame feet	Anti-slip
Frame surface finish	Mechanical polishing

Dimensions and Weight (approx.)

	W×D×H	Weight
1000 L	1250 × 1250 × 2217 mm (49 1/16 × 49 1/16 × 87 1/16 in)	630 kg (1,389 lbs)
1500 L	1500×1400×2221 mm (59½,6×55½×87½,6 in)	810 kg (1,786 lbs)
2000 L	1500×1400×2755 mm (59½×55½×108½ in)	930 kg (2,050 lbs)

Ordering Information

Product code	Designation	
Clean In Place system Essential range		
CIP-ESS-1000	Manual clean in place system 1000L	
CIP-ESS-1500	Manual clean in place system 1500L	
CIP-ESS-2000	Manual clean in place system 2000L	

Clean In Place system Essential range – List of options		
Automated pump start		
Automated sterilization program		
Automated sterilization program + water recovery		
Automated sterilization program + automated integrity test		
Automated sterilization program + oenologic product dosage		

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