

# Manual Cleaning-in-Place Unit

## CIP250 Cleaning-in-Place Unit

### Safe, effective & time-saving

R&D labs require efficient and accurate CIP methods to remove product residue from processing plants and to prevent contamination of your test results. The OMVE CIP250 is a compact unit that ensures thorough cleaning of small pilot plants without wasting valuable time dismantling the parts.



For efficient cleaning, operators first manually fill the 50L CIP tank with the required detergent mix and set the processing conditions. The CIP250 will circulate the solution/mixture for the required time, depending on the application and the kind of cycle required (alkaline/caustic mix or acid mix circulation).

This efficient CIP unit is available with electric heating capabilities. Depending on the size of the equipment volume to be cleaned, OMVE can supply the CIP250 with a 50L vessel to ensure correct minimum flow velocities to properly clean all vessels & pipework.

Our CIP unit is suitable to clean OMVE units such as carbonators, fermenters, buffer tanks, blending vessels, UHTs as well as other lab and pilot equipment.

### Features & Benefits

- Equipped with electric heated element
- Automated cleaning of the 50L vessel, CIP pump with high-speed flow up to 2.4m<sup>3</sup>/hr
- Safe & secure design to protect the operator's health & safety and the environment (facilities) against splashes

### Applications

Our CIP unit is suitable to automatically clean OMVE units including carbonators, fermenters, buffer tanks, blending vessels, UHTs as well as other lab & pilot equipment.

### Working Principle

#### Cleaning Cycle - Step-by-Step

- Step 1. Start of the CIP unit
- Step 2. +/- 10 Min. cold/hot water washing of product from the system/ tank
- Step 3. +/- 30 Min. alkaline cleaning at +/- 70°C (depending on the type of detergent)
- Step 4. +/- 10 Min. cold/ hot water to remove detergents from the equipment
- Step 5. +/- 30 Min. acid cleaning at +/- 70°C (depending on the type of detergent)
- Step 6. +/- 15 Min. cold/ hot water to remove detergents from the equipment
- Step 7. Emptying the tank and pipes



## Specifications

Product Code	CIP250
Vessel size	50L
Max. pressure	4bar [85psi]
Flow rate	Maximum 3000L/hr
Cleaning temperature	Optimum 55-65°C [131-149 °F] Maximum 80°C [176°F]
<b>Weights &amp; Dimensions</b>	
Weight	250kg [551lbs]
Dimensions L x W x H	980 x 880 x 1120mm [3,2 x 2,9 x 3,7"]
<b>Required utilities</b>	
Electrically-heated	370-400Vac/ 3ph+N+E/ 50Hz/ 16A or 200-240Vac/ 3ph+E/ 60Hz/ 32A
Soft water (max.)	300L/hr, <25°C
Drains	Required

## Effortless Cleaning



CIP250 operating in a full production line

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Lab & Pilot Equipment

