

# Chemicals & Equipment

One of the pillars of our company is the ambition to innovate and improve.

Throughout the years we have succeeded in testing different ideas and putting them together, creating a new design.

The EvoTec-01 is a mobile system specially designed for circulation of cleaning chemicals, operating in cleanrooms for the pharmaceutical industry.

Every part of our equipment is tagged with a unique identification number. The usage is logged to avoid unwanted contamination. This is in line with the cGMP.

Pharmaceutical and food companies work according to the highest standards. We understand the importance of hygienics, quality and safety. Our equipment, chemicals and processes are fully aligned with this approach.



## EvoTec-01 smart design:

The different parts of our temporary system are built together as one mobile unit. This results in more efficient mobilisation and reduced erection time. After the execution of the chemical cleaning, the EvoTec01 is easily dismantled and removed from site. The downtime is significantly reduced making it possible, to re-start your production faster. Overall, the efficiency lowers the maintenance cost substantially.

### **Chemical reduction**

The mobile circulation unit is compact and equipped with hygienic wheels. It is possible to connect in the direct vicinity of your system, without using a forklift. The total volume of the temporary cleaning system is reduced by using less hoses. A smaller volume requires less cleaning chemicals and creates less waste. This is more efficient and more environmentally friendly.

### **Fit for use**

All EvoTec01 components are made from stainless steel and manufactured in accordance with ASME-BPE. Hygienic fittings, smooth surface profiles, and a 50µm stainless steel strainer. The built-in CIP system and standard cleaning procedures guarantee the temporary equipment is clean before entering your site and it is ensured that contaminants will not be introduced into your system.

### **Transparent reporting**

The chemical cleaning is monitored with the use of in-line analytical instrumentation. The measurements allow objective reporting on the effectiveness of the cleaning, increases efficiency and reduces the risk of damage to people, environment and systems.

**CONTACT US IF YOU NEED ASSISTANCE WITH YOUR PROJECT**

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# Raise the standard

INOX Passivation endeavours to be at the forefront of our industry. We offer our clients full transparency, traceability and thus peace of mind.

The main reason for having a chemical cleaning contractor on your site is to either remove a form of contamination from your equipment, or as part of a pre-commissioning activity to ensure your equipment is in optimal condition for service. It is therefore, of the utmost importance that these services do not (ironically) introduce foreign material, chemical residue, pesticides, fertilisers, animal products or anything similar.

Historically, chemical cleaning contractors have catered for all industries, transporting their chemistry, pumps, hoses, and manpower from one site to another: whether that be chemical plant to paper mill, oil refinery to fertiliser plant or from abattoir to pharmaceutical plant. These practices are still widely accepted and go unchallenged:

- Where has the temporary cleaning equipment been before?
- What chemistry or product has it been contaminated with?
- Is it clean and fit for use?
- What evidence is provided it will not contaminate my equipment?

We have introduced control measures and systems to ensure we have the answers to these types of questions.

## Specially formulated chemicals

Our chemicals are not multi-purpose. They are specially formulated for respective industries and, where possible, are selected because they are friendly to the environment and operational staff.

In almost all cases, our chemical solutions are blended using significantly lower concentrations and with less hazardous ingredients than the industry standards. They are also more effective than the conventional products.

### **3x quicker**

We use a nitric-acid free pickling liquid (no formation of toxic NOx fumes) and pickles super-duplex up to three times more quickly than generic HF / nitric.

### **Independent laboratory testing**

It has been proven that our passivation process is much more effective than traditional methods using nitric acid, citric acid, complexing agents and electrolytic polishing.

### **Waste reduction**

Our derouging solution is pH neutral and can go directly down the drain after the process has finished.



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