Cleaning In Place System

For customers in the Pharmaceutical & Biotechnology sectors, The effectiveness & consistency of cleaning is essential to prevent microbiological contamination of their systems & products. CPME GmbH can offer an efficient, repeatable, sensibly priced and validatable modular solution.

FEATURES

- ✓ Versatile modular design: our “Skid” CIP Unit is compact, easy to transport and install.
- ✓ Fully automated according to cGAMP principles in order to provide a repeatable and reliable cleaning process. Continuous measurement & control of flow, pressure & temperature. The efficiency is verified by means of return conductivity or TOC measurement.
- ✓ All data stored according to CFR 21 Part 11 requirements.
- ✓ Double Tube & Shell heat exchanger for hot option ensuring safe separation of cleaning media and utilities.
- ✓ Flexible design to optimize most workshops layouts.
- ✓ High quality components. All materials in contact with the cleaning media are FDA approved, with certified/documented traceability.
- ✓ Cross contamination prevented by means of engineered barrier system.
- ✓ Energy efficient, economical and environmentally friendly.
- ✓ 100% Drainable with open design for easy maintenance.
- ✓ Full documentation Package: P&ID, 3D drawing, dimensional and electrical drawings, maintenance and spare parts manuals, welding & inspection certificated, material certificates, DS, FDS, SDS, HDS, DQ, IQ and OQ.

OPTIONS

- ☐ Available in 3 models suitable for systems:
  - ✓ up to 1 m^3
  - ✓ 1.5 to 5 m^3
  - ✓ 6 to 15 m^3
- ☐ Chemical dosing and measurement option.
- ☐ Hot or cold cleaning option.
- ☐ Liquid ring return pump option.
- ☐ Tank insulation on hot systems.
- ☐ Air or nitrogen purging.
- ☐ Vacuum facility.
- ☐ CIP return TOC measurement.
- ☐ Standalone automation or integrated with production system.
- ☐ SCADA graphical package.

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About Us

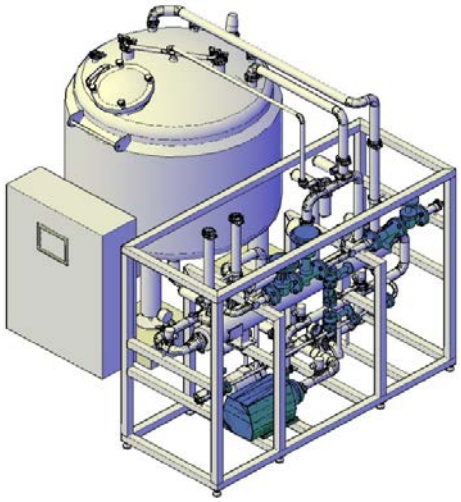
With its headquarters in southern Germany, CPME is a recently formed design, engineering and project management company delivering innovative solutions to the pharmaceutical and biotechnology sectors. Specializing in the turnkey provision of technically advanced and engineered solutions for the provision of process systems required in the production of a range of medicines including:

- ☐ Vaccines
- ☐ Antibiotics
- ☐ Injectibles, Infusions
- ☐ Oral preparations, solid dosage and suspensions
- ☐ General use drugs, creams and lotions

With offices currently in Germany, Beijing, Moscow and Hong Kong, CPME is uniquely positioned to leverage its wealth of predominantly European based expert knowledge along with an extensive network of trusted partners, in order to provide cost-effective solutions regionally and globally.

The background of the engineering resources of CPME does not directly originate from the pharmaceutical sector but from the dairy, drinks & food markets. This brings a broad range of experience to the company now balanced along with many further years of experience in the pharma and bio-tech sectors.

Furthermore, CPME offers in depth knowledge in topics such as construction, utility and electrical services, automation and control systems, building and infrastructure, clean room design and many more related subjects.



Services & Solutions

CPME can specifically provide services and solutions in both sterile and aseptic applications for the following:

- ☐ Media preparation and storage.
- ☐ Ingredient handling, blending and filtration.
- ☐ Fermenter and reactor systems.
- ☐ Final product treatment and storage.
- ☐ PW, WFI and PSG systems, storage and distribution.
- ☐ CIP, SIP and DIP.
- ☐ Utility provision, both clean and industrial (black).

CPME can offer our customers the following expertise:

- ☐ Conceptual, initial & detailed process design.
- ☐ Equipment & component specification and sourcing.
- ☐ On-site mechanical, electrical & control system supervision.
- ☐ Project management, from a single unit scope of supply up to complete turnkey solution provider.
- ☐ Process & project engineering as well as electrical & automation engineering.
- ☐ CAD resources, both in 2D & 3D.
- ☐ Validation & documentation support to EU Pharmacopeia, US FDA, CFDA (China) & PIC/s standards.
- ☐ All services delivered in accordance with our own high standards of GEP (Good Engineering Practice) & to all cGMP & cGAMP regulations.

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