Design and Tender

PROCESS.ING LIFE SCIENCES

Design & Tender

Conceptual Design

- Basic Process Flow Diagram
- Process Flow Diagram
- Design Data Sheets
- Floor Plan incl. Escape Routes
- Layout Drawing
- Material Flow Plan / Personal Traffic Plan
- Cleanliness Zone Plan / Pressure Level Plan
- Design Data Sheets HVAC
- HVAC Diagram
- Design Specifications
- Project & Validation Master Planning

Basic Design

- Design Standards / Delivery Instructions
  - * Clean Media and Process Units made of Stainless Steel
  - * HVAC Systems
  - * Cleanroom Interior Finish and Outfit
  - * EI&C and Pneumatic Systems
  - * Technical Documentation
  - * Technical Drawings
  - * Identification Systems
- P&IDs / HVAC Diagrams with basic Informations
- Main Components List
- Design / Technical Data Sheets
- Energy / Media Consumption List
- Air Flow Data Sheet / hx-Diagram
- Functional Process Description
- Layout / Plant Zone Drawing
- Piping Routing Drwaing
- Instrument Tag List
- Status and Fault Messages / Parameter Setting List
- Functional Design Specification
- Hardware Design Specification
- Software Design Specification
- Network Topology Plan (Basic Design)
- Information Structure Model (Basic Design)
- Technical and Commercial Requirements Specifications for Package Units / Long Delivery Items

Detail Design

- P&IDs / HVAC Diagrams with additional Informations
- Components List (Detail Design)
- Technical Data Sheets / Equipment Cards
- Energy Media Consumption List
- Layout Drawing / Sections (Detail Design)
- Piping Drawing / 3D-Model
- Duct Layout Plan
- Shop Drawing / Nozzle Location and Assignement
- Ceiling Installations Plan
- Room Data Book
- Function Matrix / Function Chart
- Instrument Tag List (Detail Design)
- Status and Fault Messages List
- Parameter Setting List (Detail Design)
- Electrical and Pneumatics Diagram (E-Plan)
- Hardware Component List / Programmable Logic Control
- Network Topology Plan (Detail Design)
- Specifications Graphical User Interface
- Specifications System Access / System Security
- Audit Trail-Functions Specifications
- Software Module Specifications
- Informations Structure Model (Detail Design)
- Technical and Commercial Requirement Specifications / Scope of Work

Process Equipment and Machinery / Clean Media Systems
HVAC Systems
EI&C / Monitoring System
Clean Room Systems

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