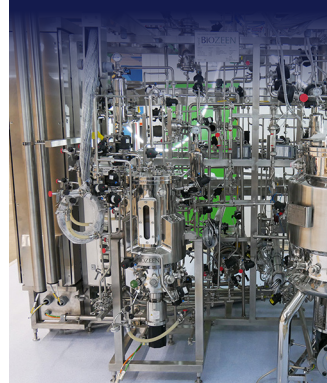


PLASMA FRACTIONATION FACILITIES

Selected Design & Execution References

Project Types & Solutions

- Modular / Hybrid Buildings / Process Skids
- Standardized pods / Client Specific Solutions
- Front-End Design / Turnkey Delivery
- Process Engineering / Automation / C&Q
- Consulting Services within Life Science Industry
- Site Master Planning
- Process Simulations



Company	Country	Scope	Type of project	Year
Confidential Plasma Fractionation Company	Sweden	Basic Design	Design of new Buffer- and Product tanks	2024-2025
Confidential Plasma Fractionation Company	Sweden	Basic Design	Process and Automation design of new production line for manufacturing of Intermediate 1	2024
Confidential Plasma Fractionation Company	Sweden	Basic Design	Process and Automation design and simulation for capacity increase of Intermediate 2	2023
Confidential Plasma Fractionation Company	Sweden	Process Concept Investigation	New basic fractionation process line, incl. Buffer preparation, distribution and CIP	2022
Confidential Plasma Fractionation Company	Eastern Europe	Design Endoresment and Value Engineering of the existing project documentation	Buffer preparation and Buffer hold systems, Basic fractionation equipment	2021-2022
Confidential Plasma Fractionation Company	Sweden	Installation of a new chromatography system	Design, Installation & Qualification of a new chromatography column with tanks, mobile vessles and CWFI tank (200L)	2019
Confidential Plasma Fractionation Company	Sweden	CIP Analysis, Project Management, Procurement, Installation and IQ/OQ	CIP Capacity Analysis for process capacity expansion	2018
Confidential Plasma Fractionation Company	Sweden	Doubling of the Basic Fractionation production capacity	Design, Installation & Qualification of a filter press, pumps, CIP station, ethanol system, etc. for 2,7 Mio L plasma	2017-2018
Confidential Plasma Fractionation Company	Sweden	Capacity expansion project for Basic Fractionation	Design, Installation & Qualification for a temporary expansion increase from 1.6 Mio L to 2.1 Mio L plasma	2017
Prometic	Isle of Man	Facility Design review	Existing and future production unis of Gel production facility	2016-2017
Prometic	GB	Conceptual Design	New Plasma Fractionation facility based on PPPS technology, 600,000 L, 6 therapeutic proteins	2016-2017
Confidential	Eastern Europe	Conceptual and Basic Design	Fractionation and Aseptic Filling facility for Plasma derived products (8 products, incl. FVIII, FIX, FII), Technology transfer from NA, 600,000 L	2015-2016
Octapharma	Sweden	Process Design, Project Management, Procurement, Installation and IQ/OQ of additional Fractionation Lines	Fractionation of Plasma derived products (Modified Cohn process), 1,600,000 L	2015-2017
Sangard Inc.	USA	Concept Development	Purification and Aseptic Filling of a Plasma derived product	2011

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