



COMPLETE SOLUTIONS

Subitec systems are available in different sizes and for various purposes – always customized to user requirements.

Subitec is determined to make the advantages of microalgae biotechnology available to the industry and to research institutes worldwide. The modular reactor system with different automation levels allows excellent scalability and delivers solutions for the cultivation of microalgae from laboratory to industrial scale.

Subitec 28 Liter FPA Photobioreactors

For process scale-up and production of micro-batches (Pic: Manual version)



Laboratory Flat Panel Airlift (FPA) Photobioreactors

For more than a decade now, Subitec has been supplying Laboratory Photobioreactors to customers worldwide ranging from private companies to various research institutions and universities. The Laboratory FPA-PBRs are available with reactor volumes of 6 Liter, 28 Liter and 4x28 Liter. Offered at three different automation levels – from manual operation to semi-automatic and fully automatic – the reactor systems show high process integrity and straight forward process monitoring and control. A selection of optional features and peripheries provide excellent flexibility to customize the equipment.

Production Flat Panel Airlift (FPA) Photobioreactors

Our Production FPA-PBR has an effective volume of 180 Liter and can be scaled modularly to plants of almost any desired size. Single FPA-PBR-lines are combined to modules, which are assembled to an industrial-scale production plant. The 180 Liter FPA reactors are used in outdoor, greenhouse and indoor plants. Subitec designs and builds turnkey pilot and large-scale production plants for different objectives and with different automation levels based on individual customer demands: Subitec has realized a variety

of projects with reactor volumes ranging from 7,5 m³ to 130 m³ for application in nutraceuticals, health care, cosmetics, aquaculture and other industries. Our services include the supply of all necessary equipment and full support for customers throughout the entire value chain.

Subitec 180 Liter FPA Photobioreactors

For industrial production outdoors, in greenhouses and indoors (Pic: Full-automated version)



Subitec 6 Liter FPA Photobioreactors

For process development and optimization (Pic: full-automated version)

The patented Subitec technology has shown excellent performance in productivity and culture density for characteristic microalgae used to produce valuable substances and for carbon capture and utilization. Cleaning and sterilization in place are part of the Subitec systems, which ensures high quality and process integrity.

Founded as a spin off from the Fraunhofer institute, Subitec is looking back on more than 20 years of experience with microalgae and offering complete solutions with the best in expertise and engineering know-how.