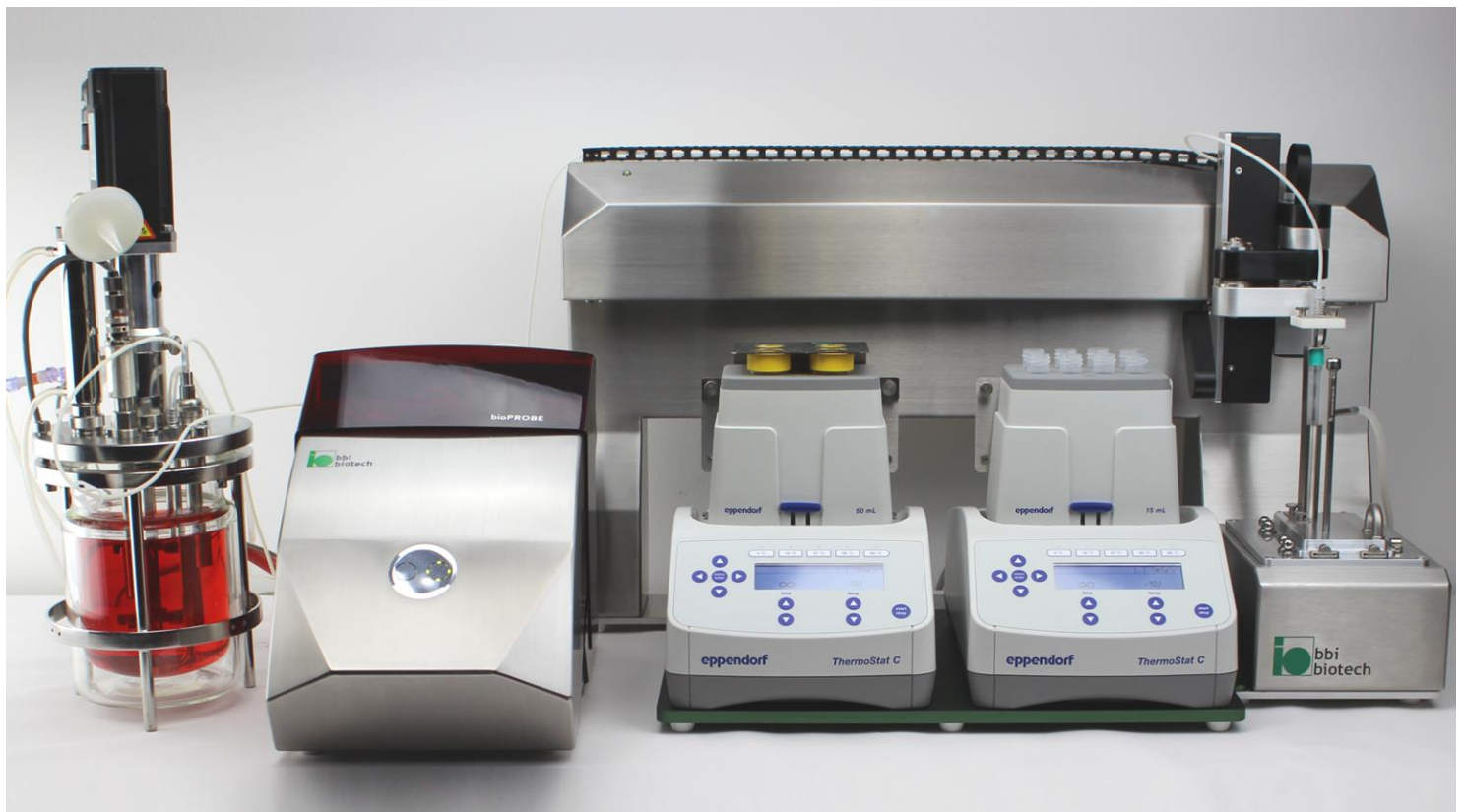


bioPROBE & multiSAM

Automated sterile sampling and superior sampling processing



Automated aseptic
sampling and transfer

Advanced solutions for
cooled sample storage

Superior cleaning concept –
Sterile by design

Multitude of
connectable devices

Sophisticated Filtering
technology

Storage of more than
350 samples

Works with vials/microplates
in all sizes and shapes

Sterile sampling from
up to four bioreactors

bioPROBE & multiSAM – Overview

- General
- Aseptically drawn sampling feed from bioPROBE
 - Complete control via bioPROBE - No additional software required
 - Complete and compliant logging via bioPROBE of every sampling step
 - OPC/TTL/Serial interfaces via bioPROBE
 - Sampling from bioreactors and liquid systems of every type and scale
 - Sampling from up to 4 bioreactors with bioPROBE quad
 - Elaborate cleaning and safety concept adapted to the special demands of biotechnology
 - Sophisticated needle cleaning and storing in between sampling
 - Most flexible autosampler with a multitude of different configurations for peripherals
 - Valuable and elegant stainless steel design
 - Switching between different configurations / connected peripherals within minutes



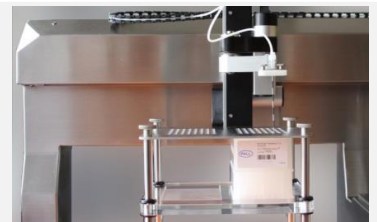
Measures	Width	Depth	Height
	718 mm	339 mm	476 mm

bioPROBE & multiSAM – Aseptic Sampling and Superior Cooled Sample Storage Solutions

- Peltier Cooling
- Based on proven Eppendorf ThermoStat C™-technology
 - Tempering from 0 °C ... +100 °C
 - Smartblocks, vials and microplates available in a variety of sizes from 1 ml to 50 ml
 - Smartblocks and vials available for sterile storage
-
- Water Bath Cooling
- Adaptable to every vial size and shape
 - Tempering from 0 °C ... +100 °C
 - Customized solutions for every application


bioPROBE & multiSAM – Aseptic Sampling and Superior Filtration

- Features
- Elaborate filtering technology (pressure filtration)
 - Single-use filtering: One sample – one filter (no cross-contamination, no biofilm problems)
 - Available for a variety of volumes from 0.5 ml to 20 ml
 - Works with filter plates of all manufacturers: Pall, GE, Millipore, ThermoFisher, Ahn-Bio, ...
 - Filter plates for HPLC, protein precipitation and other specific applications available


bioPROBE & multiSAM – Aseptic Sampling and Customized Solutions for Cell Counters and other Sample Analyzers

- Features
- Automated flow cytometry with MACSQuant™ by Miltenyi Biotec GmbH
 - Automated cell counting with Vi-CELL™ XR by Beckman Coulter
 - Advanced sample preparation with external liquid handling platforms by SIAS et al.
 - Integration of dilution, mixing and other sample preparation modules
 - Customized solutions for your PAT process and your analyzers

Example: multiSAM and bioPROBE with MACSQuant™ flow cytometer from Miltenyi Biotec GmbH

