

Specifications

	BioXplorer 100 / P	BioXplorer 400 / P	BioXplorer 5000P
Parallel Bioreactors	8 or more	4 or more	2 or more
Vessels	Glass Stainless Steel	Glass Stainless Steel	Glass Stainless Steel
Working Volumes	20 ml to 150 ml	20 ml to 150 ml 60 ml to 700 ml	20 ml to 15 L
Stirring Speed	250 rpm to 1500 rpm*	250 rpm to 1500 rpm*	50 rpm to 1500 rpm*
Impellers	Rushton Marine Pitched	Rushton Marine Pitched	Rushton Marine Pitched
Stirring Drive	Magnetic drive	Magnetic drive Overhead drive	Overhead drive
Temp. Range	-20 °C to 200 °C**	-20 °C to 200 °C**	-20 °C to 225 °C**
Temp. Control	Integrated, individual electrical heating in the block, software controlled	Integrated, individual electrical heating in the block, software controlled	Heated jacket Circulator
Applications	Mammalian Microbial Gas Fermentation	Mammalian Microbial Gas Fermentation	Mammalian Microbial Gas Fermentation
pH Control	Acid/base liquid feed; Gas addition	Acid/base liquid feed; Gas addition	Acid/base liquid feed
Liquid Feeds	Optional anti-foam; substrate feeds	Optional anti-foam; substrate feeds	Optional anti-foam; substrate feeds
OD Measurement	Optional	Optional	Optional
Gas Mixing	Air, H ₂ , N ₂ , O ₂ , CO, CH ₄ and CO ₂	Air, H ₂ , N ₂ , O ₂ , CO, CH ₄ and CO ₂	Air, H ₂ , N ₂ , O ₂ , CO, CH ₄ and CO ₂
Max Pressure	Up to 10 bar with stainless steel vessels	Up to 10 bar with stainless steel vessels	Atmospheric - 10 bar

*Speeds depend on stirrer drive, media properties and aeration rate.

**Sub-ambient cooling requires optional cooling module.

About HEL

HEL is an international company that specialises in chemical reactors, bioreactors and related data/logging tools for process R&D in the pharmaceutical, fine chemical, biotechnology and petrochemical industries. Established in 1987 and with clients worldwide our key strengths are:

Knowledgeable staff - highly qualified and experienced chemical engineers and chemists

Quality - underpinned by ISO9001 certification for over 16 years

Service - choice of service contracts backed by an established culture of unmatched client support

Range of products - both off-the-shelf and custom designs, manual and fully automated controls, low and high pressure/temperature applications, single and parallel/multi-vessel products

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