

BioXcell®

Excellent Versatility for Accelerated Culture Success



Features

- Perfectly suited for research and development
- Combination Technology: multiple glass vessels or single use bottles
 - 1:2 for mammalian cells
 - 1:3 for microbial/fermentation
- Scalable from bench to research
- Intuitive Siemens HMI software controls for real time monitoring
- Compact design for saving critical laboratory space
- Configurable peristaltic pumps
- Interchangeable impellers/spargers for addressing user's requirement
- Process Modes:
 - » Batch
 - » Fed-Batch
 - » Perfusion



Siemens HMI PLC Software

User-friendly touchscreen interface with real-time display

Peristaltic Pumps

Easy assembly of tubings for liquid addition or removal

Rotameters

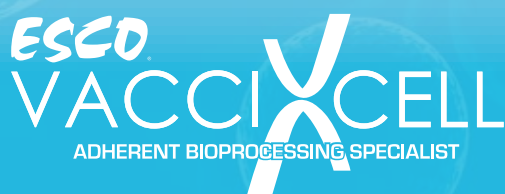
Gas flow control

Applications

- Microbial Cells
- Insect Cells
- Fungi
- Mammalian Cells in Suspension

BIOXCELL®		
UTILITY		
Control Tower	Electrical connection	230 VAC Single Phase 30A
	Housing	Stainless Steel
	Water	Quick connect Water supply pressure requirement: 1.5 M
	Gas Supply (air, O ₂ , N ₂ , CO ₂)	Push-connect fittings accept ¼ in. tubing or hose barb fitting Requirement: 10psig (0.69 barg)
Overall Dimension (W x D x H)		350 x 692 x 925 mm
	VInterface	Colored Touch Screen Siemens HMI TP700 Siemens PLC S7 1200
	Features	Real-time dynamic display
	Record Output	USB port to save data to an external flash drive
Vessel Feature:		BioXcell® 2 L BioXcell® 10 L
Nominal Volume		2 L 10L
Working Volume		1-2 L 3-10 L
Tank Nominal Weight		5 kg 11.5 kg
Maximum Height (with condenser)		520 mm 852 mm
Maximum Outer Diameter		220 mm 220 mm
Agitation	Drive	Small AC servo motor with automatic feedback compensation capable of low speed, high torque
	Sensor	Incremental encoder TTL 2500 ppr
	Range	1-1200 rpm
	Precision	1 rpm
	Impeller	2x Rushton Turbine Impeller *Configurable designs based on user requirement
Baffles		Inclusive in Standard Vessel
Temperature	Operating Conditions	Ambient Temperature
	Precision	±0.01
	Sensor	PT 100
	Control	Heating Pad
pH	Range	2-12
	Precision	±0.01
	Probe	Analog/Digital Mettler Toledo
	Probe Length	BioXcell® 2 L: 225 mm BioXcell® 10 L: 325 mm
DO	Control	Fermentation: Acid/Alkali Addition Cell Culture: CO ₂ /Alkali Addition
	Range	Display Range: 0-200% Setting Range: 0-100%
	Precision	±0.01%
	Probe	Analog/Digital Mettler Toledo
	Probe Length	BioXcell® 2 L: 225 mm BioXcell® 10 L: 325 mm
	Control	Gas Injection through Sparger
	Delivery	Ring Sparger
Options	Mass flow controller Oxygen Enrichment Device Second Gas Port (O ₂ , N ₂ , CO ₂ or other gases)	
Oxygen Transfer Rate		
Condenser	Filter	0. 2µm PTFE filter
	Condenser	Stainless Steel Condenser
Peristaltic Pumps	Number	4 built-in, configurable peristaltic pumps
	Configurations	Alkali, Acid, Feed, Antifoam
	Pump head	Watson Marlow or Equivalent
	Tube Sizes	Default: 3.2 mm *Configurable depending on user requirem
	Fixed Speed	20-200rpm
	Flowrate	9.4 to 95mL/min

*Specifications subject to change



For queries and comments, please contact
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