



Controller		Controller	
Size (WxDxH)	223 x 402 x 450 mm / 8.77 x 15.82 x 17.71 inch		
Weight	14 kg / 8.81 lb		
Control and monitoring	10.4-inch tablet		
pH-Control	Base, Acid, CO <sub>2</sub>		
pO <sub>2</sub> -Control	Stirrer, Air, O <sub>2</sub> , N <sub>2</sub>		
Gas supply	4 Mass Flow Controller (N <sub>2</sub> , O <sub>2</sub> , Air, CO <sub>2</sub> ), 0.01 – 2L/min		
Stirring	Top mounted direct drive – Speed range depending on reactor size		
Pumps	4 (Acid, base, anti-foam agents, feeding solutions)		
	Flowrate min	0.3mL/min	
	Flowrate max	270mL/min	
Standard Sensors (Control Accuracy)	pH (±0.05 pH)		
	pO <sub>2</sub> (±0.3 %sat)		
	Temperature (±0.2 °C)		
Optional sensors	CO <sub>2</sub> , Glucose, Lactate, RAMAN, ...		
USB Interface	Yes		
WiFi Interface	Yes		
Voltage	100 – 240 V		
Frequency	50/60 Hz		
BioThrust Reusable Glass Vessel			
	2L Glass Vessel		10L Glass Vessel
Type	Single or double wall		Double wall
Size (WxDxH)	210 x 210 x 420 mm		230 x 230 x 490 mm
Inner diameter	130 mm		190 mm
Net weight (Assembled)	10.55 kg		21.9 kg
Stirring speed	0 – 300 RPM		0 – 150 RPM
Standard Sensors	pH, pO <sub>2</sub> , Temp		pH, pO <sub>2</sub> , Temp
Sterilization	Autoclaving		Autoclaving
Ports (PG13,5)	3		4
BioThrust Single-Use Vessel			
	0.3L Single-Use Vessel	2L Single-Use Vessel	10L Single-Use Vessel
Size (WxDxH)	85 x 85 x 125 mm	140 x 140 x 240 mm	<i>Coming soon!</i>
Inner diameter	75 mm	110 mm	<i>Coming soon!</i>
Net weight (Unassembled)	0.4 kg / 0.88 lb	0.9 kg / 1.98 lb	<i>Coming soon!</i>
Stirring speed	0 – 200 RPM	0 – 150 RPM	0 – 100 RPM
Sensors	pH, pO <sub>2</sub> , Temp	pH, pO <sub>2</sub> , Temp	pH, pO <sub>2</sub> , Temp
Sterilization	Autoclaving	Autoclaving	Autoclaving
Ports (PG13,5)	3	4	4/5
Ports (Luer)	4	4	4
BioThrust ComfyCell Incu			
	Base Unit		0.3L Single-Use Vessel
Size (WxDxH)	125 x 232 x 85 mm / 4.9 x 9.1 x 2.3 inch		85 x 85 x 125 mm / 2.3 x 2.3 x 4.92 inch
Net weight (Assembled)	0.87 kg / 1.92 lb		0.4 kg / 0.88 lb
Stirring	Top mounted direct drive		0 – ±150 RPM
Standard Sensors	None		None
Sterilization	Isopropanol cleaning		Autoclaving
Ports (PG13,5; Luer)	-		3 (optional); 4