

Bioreactor, Fermenter 바이오리액터, 퍼멘터

- Fermentation 공정에 사용하는 Lab Scale 바이오리액터
- E.coli, Yeast 등 미생물 배양에 적합함
- Control Unit Package와 Vessel Package 를 조합하여 원하는 세포배양 공정 진행
- 4개의 가스 공급 라인(예: N₂, O₂, Air, CO₂ 등)
- 4개의 액체 공급 라인(예: 산, 염기, 소포제 등)
- 다양한 파라미터 모니터링 가능(온도, Filling Level, pH, DO, 거품)
- CO₂, Conductivity(전도도), Turbidity(탁도) 센서 추가 가능(HABITAT ferment cct)
- 배양 방식에 따라 batch, fed-batch, perfusion 모드 선택 가능
- 10.4인치 테블릿을 통하여 제어 및 모니터링, 직관적이고 쉬운 소프트웨어
- USB, RS232, 이더넷, Wifi 등 다양한 외부 통신 기능
- 베셀은 가압멸균 가능
- IKA

Control Unit Package

Cat. No.	Model	Type	EA Price
R11-05-113	HABITAT ferment	Basic	13,830,000
R11-05-119	HABITAT ferment cct	cct	14,730,000

Package

Cat. No.	Model	working volume	Type	EA Price
R11-05-164	HABITAT ferment sw 2	0.5 L	Single-walled	16,900,000
R11-05-170	HABITAT ferment sw 5	1 L		20,560,000
R11-05-158	HABITAT ferment dw 0.5	0.5 L	Double-walled	16,600,000
R11-05-161	HABITAT ferment dw 1	1 L		18,300,000
R11-05-167	HABITAT ferment dw 2	2 L		18,860,000
R11-05-173	HABITAT ferment dw 5	5 L		23,070,000
R11-05-176	HABITAT ferment dw 10	10 L		28,970,000



Control Unit Package

Cat. No.		R11-05-113	R11-05-119
Model		HABITAT ferment	HABITAT ferment cct
Controller	Display	10.4" 테블릿 PC	
	Data memory size	32 GB	
Stirring	Stirrer control mode	off, manual, profile, Cascade-pO ₂ control, chaotic	
	Speed range	1 ~ 2200 rpm	
	Speed deviation	± 2 %(>100rpm), ± 5 rpm(<100rpm)	
Temperature	Temp. sensor	PT1000	
	Temp. Range	0 ~ 100 °C	
	Temp. resolution	0.1 °C	
	Temp. accuracy	± 0.2 °C	
pH	pH measuring range	0 ~ 14 pH	
	pH measurement resolution	0.01 pH	
	Accuracy of pH measurement	0.02 pH	
qO ₂	pH control mode	off, auto, profile	
	qO ₂ control mode	off, manual, auto, profile	
	Measurement range qO ₂	0 ~ 200%sat	
	Resolution qO ₂ measurement	0.01 %sat	
Gas	Accuracy of qO ₂ measurement	0.3 %sat	
	Gas connection size	6 mm	
	Flowrate (Air, O ₂ , N ₂ , CO ₂)	0 ~ 20000 cc/min	
	control accuracy of the gas	2 % fsr	
Pump	Pump head	4ea (Acid, Base, AntiFoam, Level)	
	Pump Flow rate	1.0 ~ 270 ml/min	
	Tube I.D	0.5 mm ~ 4.8 mm	
	Tube O.D	4.1 mm ~ 8.4 mm	
	Tube material	Silicone	
	Tube hardness	50 ~ 60 Shore A	
cct	CO ₂ sensor port	-	o
	Conductivity sensor port	-	o
	Turbidity sensor port	-	o
Pressure		200 mbar ~ 1000 mbar	
Interface		USB, RS 232, Ethernet	
Dimensions (W×H×D)		224×624×405 mm	
Weight		14 kg	
Power		100 ~ 240 V, 50/60Hz, Max. 1100W	