

Sales Proposal for FS-10-A05P

Fermentation system	
	FS-10
Max Working Volume	5L
Total Volume	6.8L
Head plate	316L stainless steel (≤25 Ra/in, 0.6μM)
Vessal Meterial	Glass fully enclosed capsule-type tank,
Vessel holder	with a tiltable shelf(0°~90°) and an outer autoclave protective shield
Dimension	430mm(L) x 730mm(W) x 780 mm(H)
Weight	Approx. 16Kg
Speed (rpm)	1-60
Control	PID Control
Motor	Removable top brushless motor
Agitation unit	baffles located with impeller
Туре	Scraper blade type Spiral blade type
	Vessal Meterial Vessel holder Dimension Weight Speed (rpm) Control Motor Agitation unit







Controller	Monitor	10.4" color touch screen
	Control	Real time display of agitation speed, temperature
		In case of an unexpected power loss, all parameters are
	Software Protection	automatically stored in the controller. When power is restored,
		all programs and functions will automatically resume.
	Remote Control	Remote data acquisition and process observation/control
		available. Requires external PC and the controlling software (included)
	Data Expot	USB Port
		Built-in mechanism for both Thermostat and Dry Heating
	Other	systems- selectable through software control (depending on
		vessel types and heating element supplied)
	Cabinet Material	Front panel: ABS / Housing: Painted iron
	Dimension	400mm(L) x 500mm(W) x 740 mm(H)
	Weight	Approx. 50Kg
	Range	$5^{\circ}\mathbb{C}$ (41 $^{\circ}\mathbb{F}$) above coolant up to $60^{\circ}\mathbb{C}$ (140 $^{\circ}\mathbb{F}$)
Temperature	Туре	Platinum RTD senser (PT-100), none autoclavable
	Heating and Cooling	Built-in heat exchanger (400W heater/water circulation
	Device	pump) and External heating devices
	Heating and Cooling	Cooling coil; water supply controlled by automatic solenoid
	Device	valve
	Flow	0, 0.2 - 2.5 LPM
Aeration	Control	Manual or programmable 15 steps PID control.
, teration	Filter	0.2mm Autoclavable Disc Type Air Filter
Feed Control	, meci	0.2
	Doristaltic Dumns	2 huilt in numner 1 ovternal numn (Ontional)
	Peristaltic Pumps	3 built-in pumps; 1 external pump (Optional) 0-65rpm, Manual or programmable 15 steps PID control
	Control	
	Feed Tank	glass bottle with 2-port stainless steel connector cap
Sterilization	Type	Autoclave; size of autoclave inner chamber must be able to
	.,	accommodate vessel
Utility	Power Source	100-120V~, 50-60 Hz with electrical safety cutoff switch







Requirements		2 Bar maximum (29 psi); must be dry, oil-free and filtered
Requirements	Air source	
	Air source	For 5L, minimum pressure 0.1499 kg/cm2 and air flow rate 60
		L/min
	Water source	1 Bar maximum (14.5 psi); water supplied to fermenter must
		be at least 15C below set point operating temperature.
	Sterilization	Autoclave; size of autoclave inner chamber must be able to
		accommodate vessel with attached condenser
Main Body		1x Controller
		1xCulture Vessel (Jacketed Vessel)
		1xPT-100 Temperature senser
		1xBrushless Motor
		1xVessel holder
		4x 250 ml glass bottle (includes 2-port stainless steel connector
		cap)
Start-up Kit		1x 500 ml glass bottle (includes 2-port stainless steel connector
		cap)
		1x 45 mm 0.2 micron autoclavable disc type air filter, 10/pk
		1x Silicon tubing clamp, 16/pk
		1x #16 (inner diameter – 3.2mm) silicon tube – 25 ft.
Warranty		One Year











