



# Sentinain Inc.

Website: [www.sentinaininc.com](http://www.sentinaininc.com)

TEL: (86) 10-82416475 / 82413547

Address: Rm208, Kequn Plaza Xi, Xuyuanlu 30#, Haidian, Beijing, China.

## Double vessels 1000L stainless yogurt fermentation, fermenter



Lab Scale Fermentor Double Vessel: SDL-1/3/5/7/10L and food fermentation equipment

Stainless fermenter details:

1. With Price compatible lab scale brewing equipment
2. Easily for operation & Space savings
3. Digital controllers and one LCD displays
4. All size of vessels can be OEM.
5. Top mounted DC servo motor gives wide agitation speed control ranges
6. Built-in diaphragm type air pump protects the oil contamination by air supply
7. Digital PID temperature controller gives the accurate and stable temperature condition of bioreactor
8. pH value is digitally measured and controlled
9. RS232-C and analog outputs for the temperature and pH value
- 10 Conical fermentor supply DO meter and antifoam module.



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The stirred tank bioreactor is a price compatible lab scale fermentation system for microorganisms which has functions of temperature control, air supply, agitation, pH measuring and control.

Vessel	Total Volume	3	5	7	10
	Working Vol.	2	3	5	7
	Head Plate	thermowell, aeration, sampling, spare ports pH, DO and foam probe ports 4 feeding ports and 2 general purpose ports			
	Vessel	Single wall bottom heating			
Aeration	Flow rate	0~5 LPM			
	Sparger	Removable ring sparger			
	Inlet Filter	0.2µm filter interchangeable			
	Air Pump	Diaphragm pump			
	Condenser	Water cooled condenser			
	Air flow meter	0~5LPM, vertical type			
Agitation	Servo Motor	Top drive DC motor 60W(100W option) Magnetic Hall sensor, PWM control			
	Impellers	2-rushton turbine impellers, 1 foam breaker			
	Indication	LCD display in 10 rpm increments			
Temperature Controller	Control range	3°C above ambient temperature to 80°C			
	Accuracy	±0.1 °C			
	Sensor	RTD(Pt-100)			
	Control Algorithm	PID			
	Heating	200 Watt heater			
	Cooling	Air fan and fin for air cooling and Solenoid valve for water cooling			
	Interface	RS232-C			
	Output Signal	0 to 5V analog signal for data recorder			
pH controller	Probe	Mettler-Toledo pH: 2.0~12.0			
	Calibration method	(4,7), (4,7,10), (7,10) and manual adjust			
	Measuring	pH 0.01 resolution			
	Control	Digital PWM, pH 0.1 accuracy			
	Peristaltic pump	2- Watson-Marlow 102R peristaltic pump			
DO controller	Set point Range	0~200%			
	Display Range	0~200%			
	Control Mode	PID			
	Resolution	0.1			
Accessory	4 reagent bottle, Reagent bottle holder				
Power	110~220Volt/50~60Hz				
Dimension	D×W×H(mm)	450×250×670			
Weight	Kg	100			

1000l fermentation tanks for yogurt fermentation or brewing equipment

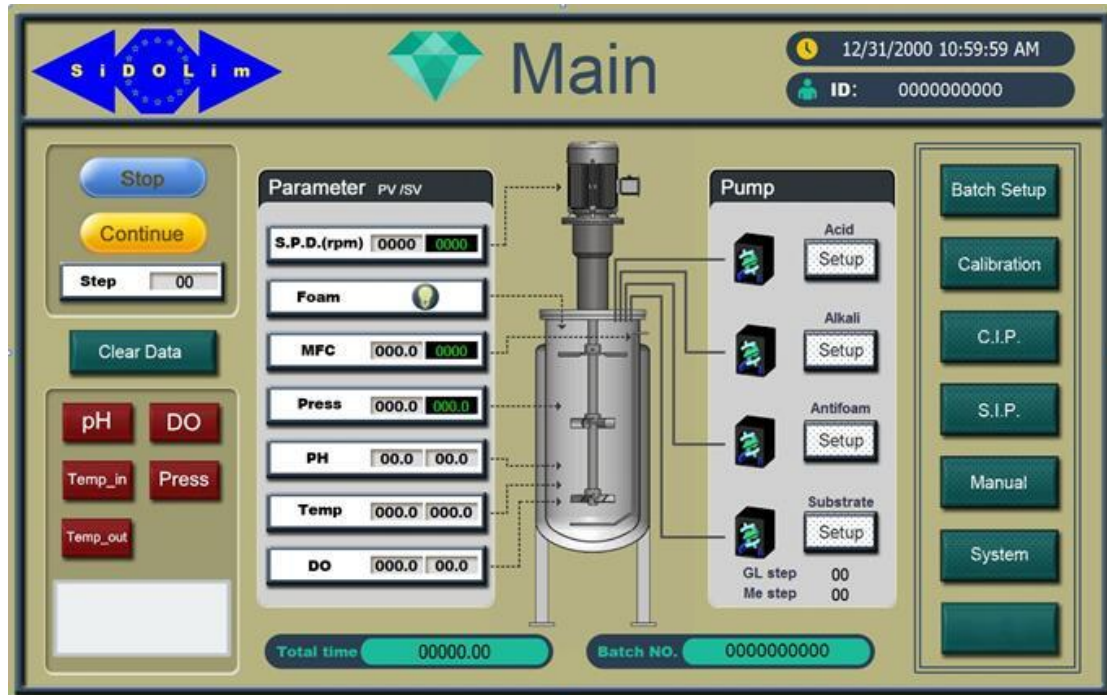


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## Double Vessel fermentation equipment

Pyrex Glass double Vessel Assembly with Vessel supporter Top Plate (pH, DO, Anti-foam, Thermo well, Inoculation, Sampling 4point feeding points).

Ports, Blade, Foam Breaker Pyrex Glass Condenser, Ring type Sparger

Removal Baffle Powerful DC Motor, Seal, Pyrex Glass Vessel Silicon Tube, Vessel packing

Cold Finger Heating Plate (Heater, water in/out ports).

\* Double vessel doesn't need Heating Plate but Water bath for exclusive use.

Catalog Number	Total Vol. (working Vol.)	Inner Dia. (mm)	Inner Height (mm)	Electrode Length (mm)	Min Vol. (L)	Impeller Diameter (mm)	D/P (%)	H:D
		D	H			P		
DL02	1.5L (1L)	110	150	120	0.3	60	55	1.3 :1
DL03	3L (2.5L)	130	220	120	0.5	60	45	1.7 :1
DL05	5L (3L)	145	300	225	1.5	60	42	1.2 :1
DL07	7L (5L)	170	310	225	3.2	72	45	1.7 :1



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## MANUFACTURERS

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## Hot products





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## Customers projects



## Production Line





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