

YORLAB[®] AUTOMATIC FERMENTOR Model No.: YSL / YSU-555



Specifications:

- Basic equipment with autoclavable glass vessel Agitation, Aeration & Digital temperature control with required heating & cooling arrangements .
- The system (unit) will have facility for firm ware up grading.
- Working volume : 600 ml / 5 Ltrs., Total Volume : 7 Ltrs., Stirrer : Stirrer shaft with single mechanical seal or magnetic

Culture Vessel:

- Consists of suitable sparger and overhead aeration sparging arrangement via. 0.2 micron sterile filter for cell culture application and ring sparger for microbial fermentation with toolkit and one set of spare 'O' rings for culture vessel.

Temperature : 8°C to 80°C.

- Temperature controlled by thermostat with two temperature sensor, one to measure the jacket temperature and second sensor to measure the temperature of jacket liquid to ensure precise temperature control with rapid heating & cooling rates with circulation pump.

Agitation System:

- Agitation system with maintenance free servomotor (20 to 1500 RPM) user configurable RPM.

Controls :

- (a) pH Amplifier PID type indicating controller with digital readout.
- (b) Steam sterilizable / autoclavable.

- Antifoam controller with stainless steel probe.
- Peristaltic pumps at each, one for antifoam
- Dissolved Oxygen Amplifier, PID indicating controller with sterilizable electrode
- Two External variable speed pumps for substrate feed.
- Continuous culture control system with 2 peristaltic pumps one for feeding and one for harvesting
- All the above controllers are microprocessor based and integral independent connection to a serial printer through RS 232 connection.

Optional Accessories :

- Chiller for below ambient temperature operation.
- Air compressor with filter & accessories .
- Cartridge disposable Filters (set of 10 nos.)
- Gas mixing unit for 3 gases with individual Rotameter, pressure gauge and needle valves, housed in a single cabinet.
- Basic unit itself include in built gas mixing of Air
- Oxygen, Nitrogen and carbon dioxide controlled via. PH & DO controller, two Rota meter, to control the flow of air, O₂, N₂, Co₂ and one Rota meter to control the flow of overlay.
- Computer control software with computer, and printer RS-232 balance interface and suitable window based software through.