

Autoclavable lab Fermenter:



TECHNICAL SPECIFICATIONS & SCOPE OF SUPPLY

Autoclavable lab fermenter

Model – ALF series(Basic & Advanced models)

1. Fermentor vessel :-

- Borosilicate (pyrex) glass vessel
- Total capacity 2,3,5,7 litres
- Working volume range 1.3 litres (minimum) to 4.5 litres (maximum)
- Stainless steel support plates (top & bottom) with ports & fittings for the following :-
 - Air sparger
 - Vent

- Inoculation port cum sampling
- Cooling finger heat exchanger
- Thermo well
- Sensor port(s)
- Addition port(s)
- Spare port(s) with blind plug(s)

2. Agitation (stirring) arrangement :-

- Magnetic stick stirrer along with heavy duty motor.
- RPM Indication with speed variator 300 to 1400 RPM.

3. Aeration control system:-

- Air compressor
- Air flow rotameter with needle valve for manual flow control setting
- Autoclavable air filter capsules, rating 0.2 micron, for air inlet & exhaust

4. Cooling-based temperature measurement & control system:-

- RTD Pt-100 temperature sensor
- Microprocessor-based digital on/off type temperature controller for cold water control
- Control range: From 20 °C above cold water temperature upto 60°C

5. Control panel console:-

- Powder coated control panel console with electrical switchgear, panel accessories & mounting arrangement for various panel-mounted instruments
- Suitable for tabletop mounting adjacent to fermenter

6. Mounting arrangement:-

- Sturdy powder coated benchtop mounting stand for the complete system, dimensions 30" x18"(approx.)

This model is suitable for the following applications:-

- College-level experiments, demonstration, practical
- Research work on the following :-

Microbial cultures (bacteria, yeasts, actinomycetes, fungi)

- Low, medium or high conditions of the following :-

Broth viscosity, broth density & cell density

Models Available:-

SR.NO.	Model Name	Full Capacity	Model type
1	Autoclavable Lab Glass Fermenter (ALF-2)	02 lits	Basic, Premium
2	Autoclavable Lab Glass Fermenter (ALF-3)	03 lits	Basic, Premium
3	Autoclavable Lab Glass Fermenter (ALF-5)	05 lits	Basic, Premium
4	Autoclavable Lab Glass Fermenter (ALF-7)	07 lits	Basic, Premium