



DHRUV FABROTECH®

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150-Lit Fermenter



❖ TECHNICAL SPECIFICATIONS & SCOPE OF SUPPLY:-

1. Fermenter vessel :-

- Material SS304/SS316
- Total capacity - 150 liters
- Working volume 70%
- Stainless steel tank with jacket, ports & fittings for the following :
 - Air sparger
 - Air Vent
 - Inoculation port
 - Pressure Gauge
 - Safety valve
 - Thermo well
 - Sensor port(s)
 - Material Drain port

2. Tank's Jacket Nozzles:

- Water in
- Water out
- Steam in
- Steam out
- Spare ports

3. Agitation (stirring) arrangement :-

- Bottom driven seal-less & totally leak-proof magnetic drive agitator with single/double turbine impeller
- Industrial grade AC induction motor
- Variable frequency (ACVF) drive for motor speed variation, range 150 – 400 RPM
- Digital RPM meter for motor speed

4. Aeration control system :-

- Oil free 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

5. 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 temp. 20 deg C up to 45°C

6. Control panel console :-

- Powder coated control panel console with electrical switchgear, panel accessories & mounting arrangement for various panel-mounted instruments
- Suitable for Trolley/Wall mounting adjacent to fermentor

7. Mounting arrangement :-

- Sturdy Trolley top mounting stand for the complete system to move.

Optional Features:

- Thermostat / Water chiller
- Automatic PH control

This model is suitable for the following applications: - (Description)

- Demonstration, Manufacturing.
- Batch production on the following :-
Microbial cultures (bacteria, yeasts, actinomycetes, fungi)
- Low, medium or high conditions of the following :-
Broth viscosity, broth density & cell density