



**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