ADVANCE SCIENCE

INNOVATION | PRECISION | PERFORMANCE

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FERMENTOR

MODEL NO. AS- FERMENTOR

Advance Science Fermentor is an in-situ sterilizable laboratory fermenter designed for microbial cultivation. It provides precise control of critical parameters such as temperature, pH, dissolved oxygen and agitation, ensuring optimal growth conditions for a wide range of microorganisms in research and development applications.



PRECISE CONTROL | IN-SITU STERILIZABLE | MICROBIAL CULTIVATION | DIGITAL DISPLAY | STAINLESS STEEL CONSTRUCTION | RESEARCH & DEVELOPMENT

TECHNICAL SPECIFICATIONS

Item	Fermentor
Utility	In-situ sterilizable laboratory fermenter for microbial cultivation
Type of Agitation System	Agitator
DESIGN	
Control Panel Display	Digital
Fermenter vessel material	Glass
Heating Arrangement	Electric jacket
Temperature control	Electronic
Least count of Temperature Measurement Device (in degree centigrade)	1 centidegree Celsius
pH controller provided	Yes
pO2 controller provided	Yes
Minimum Air flow Rate (with pressure adjustable upto) (ml per minute)	100 milliliter
Maximum Air flow Rate (with pressure adjustable upto) (ml per minute)	5000 millliiter
Minimum Supply air pressure	0.2 bar
Maximum Supply air pressure	0.2 bar
Agitator Provided	Yes
Liquid Circulation Pump provided	Yes
Minimum Fermentor vessel temperature	10 centidegree Celsius
Maximum Fermentor vessel temperature	70 centidegree Celsius
Minimum Fermentor vessel relative humidity	50 pieces
Maximum Fermentor vessel relative humidity	80 pieces
DIMENSION	
Side Neck in Fermentor vessel	4
Minimum Culture volume in Fermenter vessel (in ML)	250 milliliter
Maximum Culture volume in Fermenter vessel (in ML)	10000 milliiiter
Overall Weight (in Kg)	14 kilogram
POWER SUPPLY	
Power Consumption	1100 Watt
WARRANTY	
Warranty	2

KEY FEATURES

- In-situ sterilizable fermenter for microbial cultivation
- Digital control panel with user-friendly display
- Glass fermenter vessel with electric jacket heating
- Electronic temperature control (10 – 70 °C)
- pH and pO2 controllers provided
- Adjustable air flow rate (100 – 5000 ml/min)
- Agitator and liquid circulation pump provided
- Precise control for optimal microbial growth
- Stainless steel construction for durability
- Compact and easy to operate
- Suitable for research and development applications

APPLICATIONS

- Microbial Cultivation
- Enzyme Production
- Biotechnology Research
- Process Development
- Pharmaceutical Research
- Academic & Educational Institutes
- Biofuel Development
- R&D Laboratories

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