

Bio-Spin I



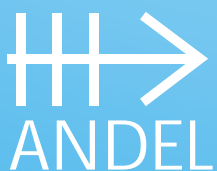
*An Indigenous Technology
at It's Best Economics*

Table
Top
Fermentors

A Next
Generation
PLC Based
Laboratory
Fermentors

1 - 10 Liters

Capacities.



Bio - Spin series of Laboratory Tabletop Fermentors are compact and designed for mass multiplication of microorganisms in the lab scale under the precisely controlled growth conditions.

Bio - Spin Fermentors incorporate half Borosilicate and half Stainless Steel jacketed vessels with digital PH/Temperature/Rate of Agitation and Aeration controlling and monitoring system.

Bio - Spin accommodates four interchangeable growth vessels of 1, 2, 3 & 7.5 liters working volumes with bottom driven magnetic drive to avoid the possible contamination from mechanical seals. Fermentor vessels with SS 316 are also available in full SS vessel with glass window. Optionally top driven direct coupled with motor are also available.

Bio - Spin Fermentors are equipped with additional ports for the control of dissolved oxygen/anti foam probe adjustable harvest line for continuous culture for future up gradation by adding the appropriate hose connections and electrodes. System also comes with Out Gas Analysis for CO₂/H₂S/Methane etc and a multiple gas mixing device for 3 or 4 gases mixing.

Specifications

Capacities	:	1Liter - 7.5 liters (Working Volumes)
Type	:	Half Borosilicate/Half S.Steel Vessel Table Top, Autoclavable
Controls	:	Auto Temperature, RPM /PH/DO ₂ /Antifoam/Air flow/Auto Sterilization through a micro-controller. Other Probes available on demand.
Drive	:	Bottom driven with Magnetic drive. Optionally Directly Coupled motor top driven also available.
Steam/Air Filtration:		Glass Metered through needle valve Rota meter and filtered through 0.22 micron hydrophobic PTFE filter.
Automation	:	Available Standard Software with RS 232C Serial communication to PC for trends/graphs and tabular form DATA AQUISITION.
Future Product in Line	:	A Hexa-bioreactor with PLC control and six 1 litre Capacity reactor vessels of Borosilicate glass is under fresh launch very shortly



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