



*Pilot  
Scale  
Fermentor*

A Next

Generation

Pilot Scale

Fermenter

20 - 1000 Liter

Capacities.

*An Indigenous Technology In  
Pilot Scale Fermentation*

**Bio - Spin<sup>P</sup>** series of Pilot Scale Fermenters Designed & Developed Indigenously for most reliable and economical fermentation in Bio-Pharma/Bio-Technology Labs/Agro Bio-Technology/R & D/Colleges and Universities.

Customized fermentor, Vessels with higher capacities up to 1000 Liters or more provided with automation & Control as per customer's approved drawings.

### Specifications

#### Lab Scale :

Capacities	: 2Liter - 20 liters (Working Volumes)
Type	: Half Stainless steel Half glass, In-situ sterilizable.
Controls	: Auto Temperature, RPM /PH /DO /Anti-foam /Air flow/Sterilization, through Modular/Micro-Controller & PID Controls. Other Probes for Out-Gases etc. available on demand .
Drive	: Bottom driven with Magnetic drive/Top Driven with Direct Coupled Motor.
Steam/Air Filtration:	0.22 micron PTFE filter with SS housing.
Software	: Standard Data Acquisition Software with RS-232-C serial communication with PC for trends/Graphs/Tabular form into Excel format. Optionally SCADA software available for computer controlled fermentation.

#### Pilot Scale :

Capacities	: 30Liter - 1000 liters (Working Volumes)
Type	: Stainless steel Jacketed Vessel/In-situ sterilizable.
Controls	: Auto Temperature/RPM/ PH/DO <sub>2</sub> /Antifoam/Air flow/ Auto Sterilization through Micro-Controller & PID Controls. Other Probes for Out-Gases etc. available on demand
Drive	: Bottom/Top driven with single/double mech. seal.
Steam/Air Filtration :	0.22 micron PTFE filter Cartridge with SS housing.
Software	: Standard Data Acquisition Software with RS-232-C serial communication with PC for trends/Graphs/Tabular form into Excel format. Optionally SCADA software available for computer controlled fermentation.

## Bio - Spin<sup>I</sup> I-05



## Bio - Spin<sup>P</sup> I-75



**Manufactured by:**

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