

GLASS INSITU FERMENTOR



STAINLESS STEEL INSITU FERMENTOR

SF Series Fermentors/Bioreactors/In-situ

Reactors

Control Unit:

- Elegant Powder Coated Housing
- Digital Control for pH, DO, Temperature,
 Agitation and Peristaltic Pumps
- Calibration function for pH, DO
- Foam Control
- Cooling Water Valve
- Sparging Air Valve
- Agitation Speed 20 1000 RPM





Reactors/Vessels:

- Round bottom Borosilicate Glass Vessel
- 3 Ltr., 5 Ltr., 7 Ltr. Capacity
- Mirror Polish S.S. 316L Head Plate
- · Batch, Fed batch & continuous Vessels
- Fully Autoclavable
- Unique Agitation Assembly
- Ruston Propellers
- Other type of Propellers available on request
- Micro Air Sparger Assembly.

Optional Accessories:

- Additional Variable Speed Peristaltic Pumps (2-20ml, 50-150ml) with digital Display
- Online Data recording with PC interface for online view of trend graph & data storage.
- Classic Model: Data Acquisition system with Colour Graphic LCD for ON/OFF line Data acquisition, Memory Card for data storage to read it on PC link software.
- · Chiller-cum- Circulator for below ambient Temp.
- · DO control with DO Sensor etc.



<u>SF Series FERMENTOR</u>

Modular system - User friendly, flexible, reliable & easy maintenance Fermentors

BIO CONTROLLER'S Specifications:

REACTOR ASSEMBLY Specifications:

Stirrer Motor PMDC Agitation

> Speed Range - 20-1000rpm Rpm display Accuracy 1rpm

volume Dished bottom Borosilicate Glass vessel

3lit, 5 Lit & 7 Lit total

mounting stand with safety

ring

Temperature PID control

> Temperature Range Ambient+5 to 60°C Accuracy +/-0.01°C Uniformity + / -0.4°C

Digital Display, Simultaneous

display of SV & PV Feather touch keypad Head Plate 16 Port head plate Assembly Diameter 200mm &

thickness 7mm Material - 55 316L Micro polished

6-head plate fixing screws

pH Display PID control

Larger LCD display Feather touch key pad pH Range 0-14, Accuracy +/-0.01, Uniformity +/-0.1 Auto calibration, BNC

connector

Mixing Assembly

Culture Vessel

Stirrer Assembly with Shaft. Contamination free with Lip seals & Viton Vrings, 2 Smooth bearings, 2-Height Adjustable Ruston Impeller with 6 blades each,

3 Baffles - No Welding joints Material SS316L

RPM - Tacho Feed back BIO

SENSORS Method

ACTUATORS

P+100 thermal sensor Length

- 210mm

pH sensor Gel filled

Rotameter 0.5-5lit/min

12mm dia

Air sparger - L - type with Aeration

Micro Pores

Air outlet with 0.2µ filter

autoclavable 220mm length

Air pump - oil free medical grade

6mm Dia sample pipe

Sampling Addition

Innoculum port with septum.

Heat Exchanger

Thermopocket for pt100 sensor. Heating finger

U-tube for cold water

circulation

Power Supply Voltage: 230 VAC /50khz

Power Consumption: 1KW Single / Three Phase

Holders

Nipple M3/8xpsp for Ph

Sensor.

All material contact with media / culture designed with SS316L

Marketed and Serviced By:



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