TAJHIZ TEB RAIMAND CO.LTD

BIOREACTOR INFORMATION SHEET DESIGN & PRODUCTION CELL CULTURE & MICROORGANISM BIOREACTOR

ISO 13485 TCL ASTURALLIA Fermenter -Make Volume 2 - 1000 L FERMENTOR - Make TAJHIZ TEB RAIMAND Model: Country of Origin:

Cap 10 LTRS(WORK VOLUM 7.5 L). TR 10 B benchtop IRAN

| Basic Components: |
|----------------------------------------|
| Control Cabinet |
| Touchscreen PC |
| Vessel |
| Thermowell & RTD |
| Impellers |
| Probe Kits (i.e., pH, DO, Foam, Level) |

Inoculation/Addition System Harvesting System Sparging System Bearing Housing

Filters & connectors

Motor

MATERIAL CONSTRUCTIONS

THICKNESS GLASS WORKING TEMPERATURE

Vessels:

TWO JECKET VESSEL & STAINLESS STEEL 316L TOP PLATE.

5mm 121 C

The system has been designed for the growth of microorganism .

It design an all-purpose stirred tank bioreactor vessel, with a total volume of 2.5, 5.0, 7.5 liters.Industrial bioreactor mae of STAINLESS STEEL 316L tank.

Each vessel consists of a stainless steel headplate and a water-jacketed vessel body. Ports are provided in the headplate for the following purposes:

| | inoculation; base addition; a thermowell for a resistance temperature detector (RTD); a foam probe; a sparger; a harvest tube; a sampling tube; an exhaust condenser; and dissolved oxygen (DO) and pH electrodes,Rushton Blade Impeller |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AGITATOR SYSTEMS | The motor can provide a speed range from 50 to 1500 RPM. Automatically control , with auto alarm function. |
| Temperature Control | the range from 5°C above coolant temperature to 80°C (± 0.1°C). Pt 100Ωtemp. Sensor system with electrical heater to control the temp inside vessel |
| Aeration | You will regulate the airflow rate by inputting values flowmeters air &O2 Manually . |
| PH Controller | Measure pH from 0-12 .there are 2 peristaltic pump for injection acid & base.(Hamilton Sensor) |
| DO Controller | Online check and measure DO is controlled in the range of 0-200% (± 1%).(Hamilton Sensor) |
| Foam Control | Stainless steel electrode check, peristaltic pump automatically add Automatically control and automatically alarm; |
| Other Feature | Pump &Valves controlled Automatically. Output data are Graph & table . |
| PC | With controller set-points,data:logger,pid,knigview software or touchscreen. |
| sterilization: | Should sent to autoclave for sterilization |
| Feed pump : | Peristaltic pump automatically feeding as well as for for routine addition . |
| PERISTALTIC PUMP | Model:OEM 10-GJ110/TH15 |





Software upgrade, A fully computerized control system.

Inside urface is 0.2 micron by mecanical polishing, Outside surface is 0.4.

Two ix-blade Rushton impellers.

Parameters of temp,pH,DO, can be automatically controlled, recorded, stored and printed. Vessel of borosilicate glass with 316 L stainless steel headplate. Guarantee services with high quality.

