

Fermenter catalog(20Lit)

Biotechnology Group

کاتالوگ فرمانتور 20 لیتری

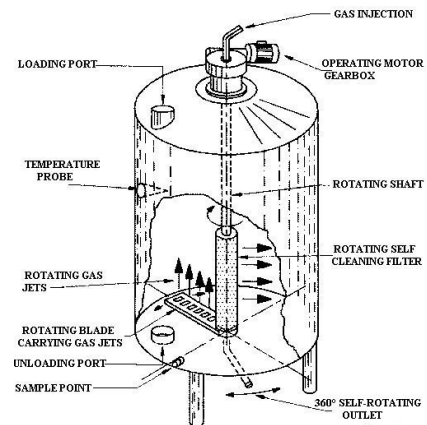


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• اجزای سیستم

فرایند فرمانتاسیون در دستگاههای فرماتور انجام می گیرد که این دستگاهها با توجه به کاربردها دارای انواع مختلفی بوده و ظرفیت آنها، بسته به نوع کاربردهای تحقیقاتی، آزمایشگاهی و صنعتی متفاوت است. شکل زیر بخشهای سخت افزاری فرماتورهای صنعتی 20 لیتری ساخت شرکت فناوران بایامد را نشان می دهد. این بخشها عبارتند از:

- 1- motor
- 2- Control PH
- 3- Strilization Steam
- 4- jacket cooling
- 5- darin Harvesting
- 6- air sterile
- 7- Diffuser
- 8- Baffle
- 9- Broth Culture
- 10- impeller bladed flat
- 11- level liquid breaker foam



• مشخصات فنی

مشخصات فنی فرماتور 20 لیتری شرکت فناوران بایامد:

Vessel	Total Volume	20lit
	Working Volume	6 to 25 Lit
	Design	Heat-blanketed and water-jacketed
Control Station & Utility Station	Design	Compact control station with advanced integrated controller is capable of supporting up to two additional (optional) independent utility stations and vessels
	Display	industrial color touchscreen display is standard on the control station. Not included on optional utility station(s).
	Function	Fermentation and cell culture monitoring and control
Temperature	Range	70°C maximum temperature
	Control	PID for heating and cooling Heat-blanketed Vessels: External heating blanket and immersed stainless steel cooling coil. Water-jacketed Vessels: Water jacket heater and circulation loop
	Sensor	Platinum RTD probe (Pt 100)
Agitation	Drive	Magnetic Drive or Direct Drive
	Range	Direct Drive: Ferm 50 - 1200 RPM; Cell Cult 25 - 400 RPM • Mag Drive: 25 - 200 RPM
	Control	PID control; manual, automatic, or cascade settings
	Impellers	Rushton-style standard with fermentation system. Pitched blade standard with cell culture. Optional: Marine blade and/or Spin filter
	Baffles	Removable 316L stainless steel; fermentation only
Aeration	Gas Flow Options	0 - 4 Rotameters: 0 - 150 mLpm • 250 - 2500 mLpm • 1 - 5 Lpm • 1 - 20 Lpm (and more) 1 Thermal Mass flow Controller (TMFC): 0.04 - 20 SLPM
	Gas Mixing	Options: Automatic 4-Gas Mixing & Manual Gas Mixing. Both via 4 gas manifold
	Sparger	Standard: Ring Sparger • Optional: Microsparger
	Inlet Filter	0.2 µm Absolute filter
	N2 Gas	For calibration of DO probe
pH	Range	2-14 pH
	Control	PID, link to pumps or gasses, adjustable deadband
	Sensor	pH probe
DO	Range	0 - 200%
	Control	PID, cascade to agitation, gasses, gas flow if equipped with TMFC
	Sensor	Polarographic DO probe
3 Pumps	Control	60 Hz / 14.4 RPM • 50 Hz / 12 RPM
Electric Req.	100 - 230V	50/60 Hz • Single Phase • 100 - 120V: 10 Amps; 200 - 240V: 6 Amps