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UMA PHARMATECH MACHINERY

The Feature Of Biotech

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VESSEL & AGITATOR SPECIFICATION SHEET

Model: UPM-22-500L-IHF-18kw-ICH-ICO-ph-PLC-NI-154R-3hp-NFLP-SMS-50mm	Date	10-01-22
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Customer

ITEM Fermenter 500L(Inbuilt Heater In Vessel)(18kw) With 1tr Chiller, 3hp Compressor, Ph Controlling & PLC Controlling

Contact

Project

Email

Vessel Details	F-2021-22
Total Volume(Litter)	500
Diameter(mm)	725
Shell Straight Height(mm)	1250
Shell(cylindrical)	4mm thk ss 316
Jacket	4 mm thk SS 304
Top	Dished end with Flange End Mounting(Common For Agitator and manhole)
Bottom	Dished end(10% torispherical)
Baffle Recommendation(Off Wall)	4 Nos @ 90 Degree
Separate manhole	no
Front Glass	100 mm
Inner Finish	Mirror Finish
Outer finish	Matt Finish
Nozzles-Standard suitable Tc Ferrule	
Pressure Guage	1/4 coupling
Safety valve	1/2 coupling
Top glass	100mm -2 nos
50 Tc Connection	2 nos
35 tc connection	3 nos
3 inch tc connection	1 nos with Blind Connection
Jacket Connection	
Tee 35 Tc	2 Nos(1 Nos -side bottom of jacket, 1 Nos-side top of jacket)
Cross 35 Tc	1 Nos(For Pressure guage, Safety valve, Air Valve)
Total Height	to be confirmed
Design Criteria	
Viscosity	100 cP
Pressure	FV to 4 kg/cm2
Temp	130 deg C
Mechanical Detail	



All SS Plate Will Be "JINDAL" make Only

Agitator Details

Model	500L-3hp-NFLP-AS30@154rpm-50mm--NI-sms		
MOC Contact Parts	SS 316	Shaft Diameter	50 mm
MOC Non-CP	MS/CS	Shaft Speed(RPM)	154
		Speed Controlling	Variable Frequency Drive
Sealing	Single Mechanical Seal		
Gearbox (Elmech)	Worm Gearbox/ Inline Helical		
Motor HP (Elmech)	3 NFLP, 4 Pole, Flanged, 3 Ph, 415 V, 50 Hz,		
Impeller Type (From bottom)	Ruston Turbine	Ruston Turbine	Ruston Turbine
Impeller Blade	6 Blade	6 Blade	6 Blade

Accessories

SS Filter Housing set with 0.2 μ PP Plated Filter Cartridge	2 nos - for air inlet and air outlet
Scope of Supply	Design, manufactur, supply of UPM make agitator assembly. Which includes impeller blades with hub, shaft, lantern assembly with bearing housing etc.
Scope of Buyer	Installation in scope of buyer(Plug and Play System)Electricity, Water, Drain Line In Buyer Scope
Panel/ Automation Detail	
Temperature Sensor	PT-100
Ph Sensor	Online-Sterilizable(Indian Made)
Ph Controlling	Automatic ph control Using Peristaltic Pump(2 Nos)PLC Controlling
automatic Media Sterilization	Automatic PLC Controlling Based(Temperature With Timer)
Batch Process Temperature	Automatic PLC Controlling Based

Other Equipment

Oil Free Air Compressor	3 HP
Water Chiller	1 TR with 70L tank
Commercial Terms & Conditions	
Unit Price(Non Negotiable)RS.	email us with top model number on (info@ssfermenterbioreactor.com) with Your Official email & Company Detail
Price Basis	Ex Factory Works
Taxes & Duty(Tax Amount)	Extra as applicable at the time of dispatch, Presently GST = 18%
Packing Amount	3% Extra(Wooden Box Charge Extra As Per Size)
Freight & Insurance	By purchaser
Delivery	8 to 10 weeks after Purchase Order with Advance
Payment Terms	50 % advance, balance against proforma invoice