

GSTIN: 24DCAPP9328H1ZG

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# UMA PHARMATECH MACHINERY

The Feature Of Biotech

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## VESSEL & AGITATOR SPECIFICATION SHEET

Model: UPM-22-100L-IHF-12kw-LCH-LCO-ph-PLC-144R-1hp-NFLP-SMS-35mm Date 11-01-22

Customer			
ITEM	Fermenter 100L(Inbuilt Heater In Vessel)(12kw) With 0.5 tr Chiller, 2hp Compressor, Ph Controlling & PLC Controlling		
Contact			
Project			
Email			
<b>Vessel Details</b>		F-2021-22	
Total Volume(Litter)	100		
Diameter(mm)	450		
Shell Straight Height(mm)	650		
Shell(cylindrical)	3mm thk ss 316		
Jacket	3mm thk SS 304		
Top	Flat 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		
<b>Nozzles-Standard suitable Tc Ferrule</b>			
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		
<b>Jacket Connection</b>			
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		
<b>Design Criteria</b>			
Viscosity	100 cP	SG	1.1
Pressure	FV to 4 kg/cm2	Temp	130 deg C
<b>Mechanical Detail</b>			



All SS Plate Will Be "JINDAL" make Only

## Agitator Details

Model	100L-1hp-NFLP-worm@144rpm-35mm--sms		
MOC Contact Parts	SS 316	Shaft Diameter	35 mm
MOC Non-CP	MS/CS	Shaft Speed(RPM)	144
		Speed Controlling	Variable Frequency Drive
Sealing	Single Mechanical Seal		
Gearbox (Elmech)	Worm Gearbox		
Motor HP (Elmech)	1	NFLP, 4 Pole, Flanged, 3 Ph, 415 V, 50 Hz,	
Impeller Type (From bottom)	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
<b>Scope of Supply</b>	Design, manufacture, supply of UPM make agitator assembly. Which includes impeller blades with hub, shaft, lantern assembly with bearing housing etc.
<b>Scope of Buyer</b>	Installation in scope of buyer(Plug and Play System)Electricity, Water, Drain Line In Buyer Scope
<b>Panel/ Automation Detail</b>	
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	2 HP
Water Chiller	0.5 TR with 20L tank
<b>Commercial Terms &amp; Conditions</b>	
Unit Price(Non Negotiable)RS.	<b>email us with top model number on (info@ssfermenterbioreactor.com) with Your Official email &amp; Company Detail</b>
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