

25 ltr Stirred Autoclave



Model	A3213	A3215
Design pressure	100 bar	100 bar
Design temperature	300°C	500°C
Material of Construction	SS316 L wetted parts	
Vessel ID	243 mm	
Vessel internal height	595 mm	
Minimum Stirrable volume	2.6 ltr	
Head mounting style	Removable head and vessel design	
Heating ¹	External electrical ceramic band heater with cladding & insulation.	External electrical ceramic band heater with cladding & insulation & heater temperature control
Motor & drive	½ hp AC motor / ½ hp ex-proof gas group IIB motor (zone 1) with 750 RPM	
Shaft sealing	Zero leakage Magnetic drive coupling, (M-80, Torque Capacity: 80 kg-cm) Material of Bush- carbon filled PTFE (CFT)	
Stirrer	2 Stage Solid Shaft with 6-bladed pitch blade turbine stirrer	
External Standard fittings	<ul style="list-style-type: none"> • Pressure gauge with vacuum protection • Safety rupture disc (Inconel) with vacuum protection • Gas inlet-valve & liquid sampling valve mounted on common dip tube • Vent needle valve • ¾" ball valve for powder / liquid inlet with funnel, • Flush bottom valve 15mm Note: All needle valves shall be ¼" NPT end connections	
Internal Standard fittings	<ul style="list-style-type: none"> • Helical Cooling coil • Thermowell (with RTD PT100 temperature sensor) • Dip tube • Removable Baffles 	
Gasket	PTFE Gasket	Grafoil Gasket
Lifting Arrangement	Mechanical chain pulley arrangement for lifting the head, vessel, etc.	
Magnetic Drive Cooling System	Water Pump and 10Ltr. Tank with tubing for circulating water to cool the magnetic drive	
Auto Cooling System	Auto-cooling system with water pump, for forced cooling SS tank & hose pipes for exothermic reaction & faster cooling.	
Water pump & 10 ltr tank	With tubing to cool the magnetic drive, pressure sensor, etc.	
Control Panel	SS Control panel with, <ul style="list-style-type: none"> • Programmable P.I.D temperature controller with high temperature alarm • Variable frequency drive for motor speed control 	
Power Supply	3φ, 440VAC, 25 Amp, 50 / 60 Hz	
Mounting	SS Trolley	

Note:

1- Cascade temperature controller shall be provided for 500°C