

1 ltr Stirred Autoclave



Model	A2313	A2315
Design pressure	100 bar	100 bar
Design temperature	300°C	500°C
Material of Construction	SS316 L wetted parts	
Vessel ID	101.6 mm	
Vessel internal height	163 mm	
Minimum Stirrable volume	130 ml	
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	¼ hp AC motor / ¼ hp ex-proof gas group IIB motor (zone 1) with 100-1450 RPM	
Shaft sealing	Zero leakage Magnetic drive coupling, (M-40, Torque Capacity: 40 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 <p>Note: All needle valves shall be ¼" NPT end connections</p>	
Internal Standard fittings	<ul style="list-style-type: none"> Helical Cooling coil Thermowell (with RTD PT100 temperature sensor) Dip tube 	
Gasket	PTFE Gasket	Grafoil Gasket
Closure Type	Split clamp with clamp bolts	
Magnetic Drive Cooling System ²	Water Pump and 10Ltr. Tank with tubing for circulating water to cool the magnetic drive	
Auto Cooling System ²	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	1φ, 220VAC, 16 Amp, 50 / 60 Hz	
Mounting	SS Trolley / SS Tabletop	

Note:

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

2 - Only for trolley model systems