



500 ml Stirred Autoclave

Model	A2113	A2123	A2115	A2125
Design pressure	100 bar	200 bar	100 bar	200 bar
Design temperature	300°C		500°C	
Material of Construction	SS316, SS316L, Hastelloy B/C, Monel, Nickel, Titanium, Zirconium etc.			
Vessel ID	75 mm			
Vessel internal height	118 mm			
Minimum Stirrable volume	85 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 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 			
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