



250 ml Stirred Autoclave

Model	A1413	A1423	A1433	A1415	A1425	A1435
Design pressure	100 bar	200 bar	350 bar	100 bar	200 bar	350 bar
Design temperature	300°C			500°C		
Material of Construction	SS316 L wetted parts					
Vessel ID	65 mm		62 mm	65 mm		62 mm
Vessel internal height	80 mm					
Minimum Stirrable volume	50 ml					
Head mounting style	Removable head and vessel design					
Heating ¹	External electrical ceramic band heater with cladding & insulation & heater temperature control.			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-08, Torque Capacity: 8 kg-cm) Material of Bush- carbon filled PTFE (CFT)					
Stirrer	Solid Shaft with 4-bladed pitch blade turbine stirrer					
External 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 • Solenoid valve at the inlet of cooling coil for automatic cooling. Note: All needle valves shall be ¼" NPT end connections					
Internal fittings	<ul style="list-style-type: none"> • Serpentine Cooling coil • Thermowell (with RTD PT100 temperature sensor) • Dip tube 					
Gasket	PTFE Gasket			Grafoil Gasket		
Closure Type	Split clamp with clamp bolts					
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	1 ϕ , 220VAC, 16 Amp, 50 / 60 Hz					
Mounting	SS Tabletop					

Note:

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

2 - Only for trolley model systems