

# 5 ltr Stirred Autoclave



Model	A2513	A2523	A2533	A2515	A2525	A2535
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	152 mm	134 mm		152 mm	134 mm	
Vessel internal height	310 mm	360 mm		310 mm	360 mm	
Minimum Stirrable volume	360 ml					
Head mounting style	Removable head and vessel design					
Heating <sup>1</sup>	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"> <li>Pressure gauge with vacuum protection</li> <li>Safety rupture disc (Inconel) with vacuum protection</li> <li>Gas inlet-valve &amp; liquid sampling valve mounted on common dip tube</li> <li>Vent needle valve</li> </ul> <b>Note:</b> All needle valves shall be ¼" NPT end connections					
Internal Standard fittings	<ul style="list-style-type: none"> <li>Helical Cooling coil</li> <li>Thermowell (with RTD PT100 temperature sensor)</li> <li>Dip tube</li> </ul>					
Gasket	PTFE Gasket			Grafoil Gasket		
Closure Type	Split clamp with clamp bolts					
Magnetic Drive & Pressure sensor Cooling	Water Pump and 10Ltr. Tank with tubing for circulating water to cool the pressure sensor etc.					
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"> <li>Programmable P.I.D temperature controller with high temperature alarm</li> <li>Variable frequency drive for motor speed control</li> </ul>					
Power Supply	1φ, 220VAC, 16 Amp, 50 / 60 Hz					
Mounting	SS Trolley					

Note:

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