



# 750 ml Stirred Autoclave

Model	A2213	A2223	A2233	A2215	A2225	A2235
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	75 mm		74 mm	75 mm		74 mm
Vessel internal height	193 mm					
Minimum Stirrable volume	85 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 Cooling System <sup>2</sup>	Water Pump and 10Ltr. Tank with tubing for circulating water to cool the magnetic drive					
Auto Cooling System <sup>2</sup>	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 / SS Tabletop					

Note:

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

2 - Only for trolley model systems