



100 ml Stirred Autoclave

Model	A1313	A1323	A1315	A1325
Design pressure	100 bar	200 bar	100 bar	200 bar
Design temperature	300°C		500°C	
Material of Construction	SS316 L wetted parts			
Vessel ID	40 mm			
Vessel internal height	83 mm			
Minimum Stirrable volume	20 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	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 impeller			
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"> • Single tube in tube out type 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	1φ, 220VAC, 16 Amp, 50 / 60 Hz			
Mounting	SS Tabletop			

Note:

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