

100 ltr Stirred Autoclave



| Model | A3503 | A3513 | A3505 | A3515 |
|-------------------------------|--|---------|--|---------|
| Design pressure | 50 bar | 100 bar | 50 bar | 100 bar |
| Design temperature | 300°C | | 500°C | |
| Material of Construction | SS316 L wetted parts | | | |
| Vessel ID | 456 mm | 440 mm | 456 mm | 440 mm |
| Vessel internal height | 699 mm | 735 mm | 699 mm | 735 mm |
| Minimum Stirrable volume | 12 ltr | | | |
| 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 | 1 hp AC motor / 1 hp ex-proof gas group IIB motor (zone 1) with 440 RPM | | | |
| Shaft sealing | Zero leakage Magnetic drive coupling, (M-120, Torque Capacity: 120 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 1" ball valve for powder / liquid inlet with funnel, Flush bottom valve 25mm 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 Removable Baffles | | | |
| Gasket | PTFE Gasket | | Grafoil Gasket | |
| Magnetic Drive Cooling System | Water Pump and 10Ltr. Tank with tubing for circulating water to cool the magnetic drive. | | | |
| 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. | | | |
| Lifting Arrangement | Mechanical Chain pulley arrangement for lifting the head, vessel, 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 | 3φ, 440VAC, 25 Amp, 50 / 60 Hz | | | |
| Mounting | SS Trolley | | | |

Note:

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