

STIRRED PRESSURE AUTOCLAVES

With highly efficient impellers & touch panel



- **Volume:** 100mL to 1,000L
- **Pressure:** Up to 350 bar
- **Temperature:** Up to 500°C
- **Material:** SS-316, Hastelloy, Inconel, Monel, Titanium, Tantalum lined.
- **Certifications:** PED / ASME U-Stamp, CE / CSA, Ex-proof / ATEX
- **Automation:** Programmable touch screen panel with SCADA software for data logging & wireless remote control.



MODELS

VOLUME	50 bar		100 bar		200 bar		350 bar	
	300 °C	500 °C	300 °C	500 °C	300 °C	500 °C	300 °C	500 °C
100 mL	-	-	A1313	A1315	A1323	A1325	-	-
250 mL	-	-	A1413	A1415	A1423	A1425	A1433	A1435
500 mL	-	-	A2113	A2115	A2123	A2125	-	-
750 mL	-	-	A2213	A2215	A2223	A2225	A2233	A2235
1 L	-	-	A2313	A2315	-	-	-	-
2 L	-	-	A2413	A2415	A2423	A2425	A2433	A2435
5 L	-	-	A2513	A2515	A2523	A2525	A2533	A2535
10 L	-	-	A3113	A3115	A3123	A3125	A3133	A3135
25 L	-	-	A3313	A3315	A3323	A3325	-	-
50 L	A3403	A3405	A3413	A3415	A3423	-	-	-
100 L	A3503	A3505	A3513	A3515	A3523	-	-	-

- >100L up to 1,000L reactors are custom built

TECHNICAL SPECIFICATIONS

Description	Specification
Head Mounting Style	Removable head and vessel design Optional: Fixed head with manual / pneumatic / hydraulic raising & lowering / tilting of the vessel
Heating Type	Electrical ceramic band heater with insulation & cladding Optional: Ex-proof aluminium cast heater / SS 304 Jacket
Motor	TEFC AC motor Optional: Ex-proof motor / ATEX motor
Shaft Sealing	Zero leakage magnetic drive coupling:
Stirrer	Pitched blade turbine stirrer Optional: Hollow shaft with gas induction impeller / Anchor / Helical impeller
Standard Nozzles, Valves & Fittings	External Valves & Fittings: Pressure gauge, safety rupture disc, gas inlet and liquid sampling needle valve on common dip tube, vent needle valve, ball valve for powder / liquid inlet with funnel (for 10L-100L), flush bottom valve (for 5L-100L) Internal Fittings: Internal cooling coil, dip tube, thermowell with RTD PT100 temperature sensor, baffles (for 10L-100L)
Gasket	PTFE up to 300°C and grafoil gasket up to 500°C
Closure Type	Split clamp with clamp bolts
Auto-cooling System	With water pump for forced cooling, SS tank & hose pipes for temperature control (for trolley model).
Water Pump & 10ltr Tank	With tubing to cool the magnetic drive, pressure sensor etc. by water re-circulation (for trolley model).
Lifting Arrangement	Mechanical chainpulley arrangement for lifting the head, vessel etc. (for 10L-100L)
Control Panel	Control panel with programmable PID temperature controller with high temperature alarm and variable frequency drive for motor speed control Optional: Touch panel with 10" HMI & SCADA for data logging & wireless remote control
Mounting	SS table top (up to 1L) / SS trolley (for 2L-100L)

OPTIONAL ACCESSORIES

- Gas pressure regulator
- Digital pressure indicator / controller
- Mass flow controllers
- Thermostats
- Metering pumps
- Catalyst filter
- Pressure charging pot
- Condenser
- Gas booster
- Catch pot
- Control valves
- Back pressure regulator
- Pressure relief valves
- Torque sensors
- Level transmitters
- Sampling pots