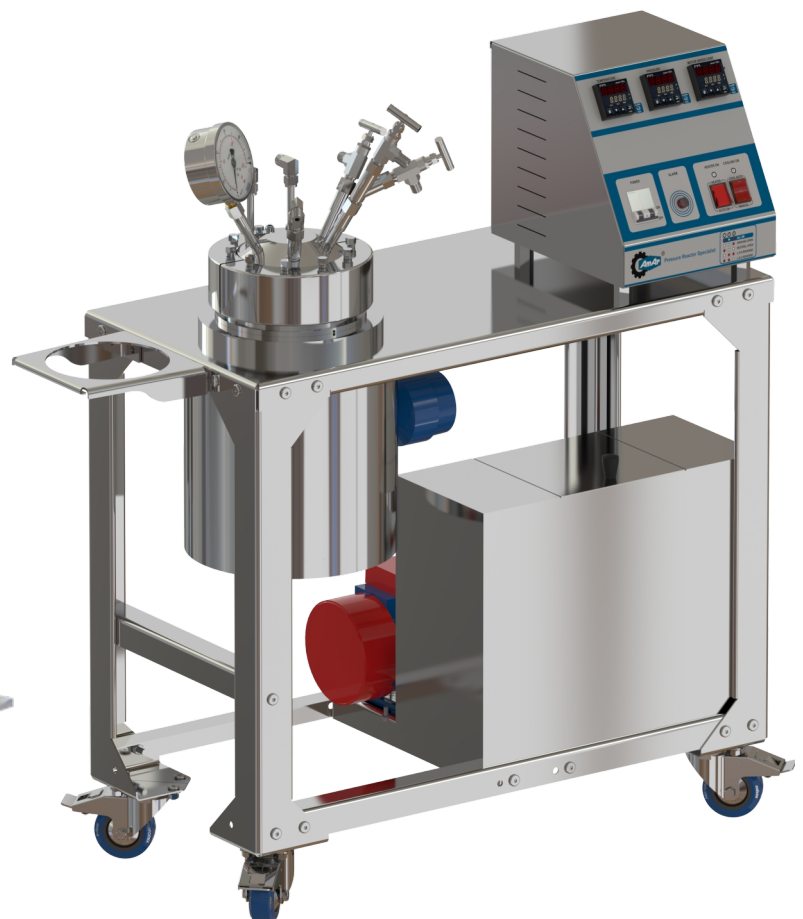


HIGH PRESSURE VESSELS HYDROTHERMAL AUTOCLAVES



- **Volume:** 25mL to 1000L
- **Pressure:** Up to 700 bar
- **Temperature:** Up to 600°C
- **Material:** SS-316, Hastelloy, Inconel, Monel, Titanium, Tantalum lined.
- **Certifications:** PED / ASME U-Stamp, CE / CSA, Ex-proof / ATEX



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	-	-	P1313	P1315	P1323	P1325	-	-
250 ml	-	-	P1413	P1415	P1423	P1425	P1433	P1435
500 ml	-	-	P2113	P2115	P2123	P2125	-	-
750 ml	-	-	P2213	P2215	P2223	P2225	P2233	P2235
1 Ltr.	-	-	P2313	P2315	-	-	-	-
2 Ltr.	-	-	P2413	P2415	P2423	P2425	P2433	P2435
5 Ltr.	-	-	P2513	P2515	P2523	P2525	P2533	P2535
10 Ltr.	-	-	P3113	P3115	P3123	P3125	P3133	P3135
25 Ltr.	-	-	P3313	P3315	P3323	P3325	-	-
50 Ltr.	P3403	P3405	P3413	P3415	P3423	-	-	-
100 Ltr.	P3503	P3505	P3513	P3515	P3523	-	-	-

- >100L up to 1,000L pressure vessels 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	With or without electrical ceramic band heater with cladding & insulation Optional: Ex-proof aluminium cast heater / SS 304 Jacket
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
Mounting	SS table top (up to 1L) / SS trolley (for 2L-100L)

ACCESSORIES

- Gas pressure regulator
- Digital pressure indicator / controller
- Mass flow controllers
- Thermostats
- Metering pumps
- Catch pot
- Pressure charging pot
- Back pressure regulator
- Gas booster
- Pressure relief valves
- Control valves
- Level transmitters

APPLICATIONS

- For gas / liquid storage / charging under pressure
- For gas / liquid separation & collection
- For HPHT corrosion testing studies
- For study of gas hydrate formation
- For supercritical fluid extraction
- For hydrogen induced disbonding tests
- For soaking of diamonds / precious stones