100 Itr Pressure Vessel



Model	P3503	P3513	P3505	P3515			
Design pressure	50 bar	100 bar	50 bar	100 bar			
Design temperature	300°C		50	500°C			
Material of Construction	SS316, SS316L, Hastelloy B/C, Inconel, Monel, Nickel, Titanium, Zirconium						
Vessel ID	456 mm	440 mm	456 mm	440 mm			
Vessel internal height	699 mm	739 mm	699 mm	739 mm			
Head mounting style	Removable head and vessel design						
Heating ¹	External electrical ceramic band heater with cladding & insulation.1						
External fittings	 Pressure gauge with vacuum protection Safety rupture disc (Inconel) with vacuum protection Gas inlet & liquid sampling valve mounted on common dip tube Vent needle valve I" ball valve for powder / liquid inlet with funnel, Flush bottom valve 25mm dia. Note: All needle valves shall be ¼" NPT end connections 						
Internal fittings	Helical Cooling coilThermowell (with RTD PT100 temperature sensor)Dip tube						
Gasket	PTFE Gasket	Gasket Grafoil Gasket					
Closure Type	Split clamp with clamp bolts						
Control Panel	SS Control panel with programmable P.I.D temperature controller & high temperature alarm						
Power Supply	3φ, 415VAC 50 Hz						
Mounting	SS Trolley						
Auto Cooling System	Auto cooling system with water pump, for forced cooling SS tank & hose pipes for exothermic reactions & faster cooling.						

Enquiry guide for customized 100 ltr models



ATM

Enquiry code model is Standard Model no-B-C-D-F-H-I-J-K where B, C, D, F, H, I, J, K options can be selected from the below tables. The below options will be in place of standard supply.

Options						
B Material of Construction						
Hastelloy C276	Н6		Inconel 625		16	
Hastelloy C 22	H2		Nickel 200		N2	
Hastelloy B	НВ		Titanium Gr. 2		T2	
Monel 400	M4		Zirconium 702		ZI	
Inconel 600	10		Tantalum lined	TN		
C Head Mounting Style						
Fixed head with hydraulic vessel raising lo	Н					
Fixed head with hydraulic vessel raising lowering & tilting						
D Heating Style						
Electrical Ex-Proof, IIB + H ₂ certified	EA					
Welded SS 304 jacket with insulation					JS	
Electric Ceramic band heater	EC					
F Valves & Fittings						
Serpentine Cooling Coil	scc					
Pressure Safety Valve	PSV					
H Body & Head Sealing						
Split clamp bolt design	BVP					
I Control Panel						
SS Control panel with programmable PID	STD					
Ex-Proof gas group IIC zone 1 certified					F2C	
Touch Screen	TSP					
K Certifications**						
CE-PED 2014 / 68 / EU for pressure vessels	PED					
or ASME U stamp for Pressure Vessels	ASU					
CE marked panel & electric parts	ECE					
or UL / CSA marked panel & electrical parts	USC					
ATEX certified electricals	ATP					

- 1) Customer is advised to select best suited options for most optimized price & delivery.
- 2) 3) All above options may not be available / possible with all models.
- Customization of volume, material, pressure, temperature etc. may be possible on request
- Different power supply options may be possible on request.

ATEX certified system as per 2014 / 34 / EU

Overall dimensions are indicative, they may change depending on the optional accessories or specific design modifications opted.

^{**}Country specific certification like CRN for Canada, AS1210 for Australia & DOSH for Malaysia can be offered on request