50 Itr Pressure Vessel



Model	P3403	P3413	P3405	P3415		
Design pressure	50 bar	100 bar	50 bar	100 bar		
Design temperature	300°C		500°C			
Material of Construction	SS316, SS316L, Hastelloy B/C, Inconel, Monel, Nickel, Titanium, Zirconium					
Vessel ID	355 mm	343 mm	355 mm	343 mm		
Vessel internal height	558 mm	600 mm	558 mm	600 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 1" ball valve for powder / liquid inlet with funnel, Flush bottom valve 25mm dia. Note: All needle valves shall be ½" NPT end connections 					
Internal fittings	Helical Cooling coilThermowell (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 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 50ltr 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	Inc	onel 625		16	
Hastelloy C 22	H2	Nickel 200			N2	
Hastelloy B	НВ	Tito	ınium Gr. 2		T2	
Monel 400	M4	Ziro	onium 702		ZI	
Inconel 600	10	Tar	ntalum lined	TN		
C Head Mounting Style						
Fixed head with hydraulic vessel raising lo	Н					
Fixed head with hydraulic vessel raising lowering & tilting					HT	
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 or	ECE					
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.

⁵⁾ Overall dimensions are indicative, they may change depending on the optional accessories or specific design modifi **Country specific certification like CRN for Canada, AS1210 for Australia & DOSH for Malaysia can be offered on request