10 Itr Pressure Vessel



Model	P3113	P3123	P3133	P3115	P3125	P3135	
Design pressure	100 bar	200 bar	350 bar	100 bar	200 bar	350 bar	
Design temperature	300°C 500°C						
Material of Construction	SS316, SS316L, Hastelloy B/C, Inconel, Monel, Nickel, Titanium, Zirconium						
Vessel ID	185 mm						
Vessel internal height	400 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 ¾" ball valve for powder / liquid inlet with funnel, Flush bottom valve 15mm dia. Note: All needle valves shall be ¼" NPT end connections 						
Internal fittings	 Helical Cooling coil Thermowell (with RTD PT100 temperature sensor) Dip tube Removable Baffles 						
Gasket	PTFE Gasket		Gr	Grafoil Gasket			
Closure Type	Split clamp with clamp bolts						
Control Panel	SS Control panel with programmable P.I.D temperature controller with high temperature alarm						
Power Supply	3φ, 416VAC 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 10 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 pneumatic vessel raising	Р						
Fixed head with pneumatic vessel raising	PT						
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