

750 ml Pressure Vessel





750 ml Pressure Vessel

| Model | P2213 | P2223 | P2233 | P2215 | P2225 | P2235 |
|--------------------------|--|---------|---------|----------------|---------|---------|
| 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 | 75 mm | | 74 mm | 75 mm | | 74 mm |
| Vessel internal height | 193 mm | | | | | |
| Head mounting style | Removable head and vessel design | | | | | |
| External fittings | <ul style="list-style-type: none"> 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 Note: All needle valves shall be ¼" NPT end connections | | | | | |
| Internal fittings | <ul style="list-style-type: none"> Helical Cooling coil Thermowell (with RTD PT100 temperature sensor) Dip tube | | | | | |
| Gasket | PTFE Gasket | | | Grafoil Gasket | | |
| Closure Type | Split clamp with clamp bolts | | | | | |
| Mounting | SS Tabletop | | | | | |

Optional Attachment²

| | |
|----------------------|--|
| Heating ¹ | External electrical ceramic band heater with RTD PT100 temperature sensor, cladding & insulation. |
| Auto-Cooling | Solenoid Valve at the inlet of internal cooling coil |
| Control Panel | SS Control panel with, <ul style="list-style-type: none"> Programmable P.I.D temperature controller with high temperature alarm |
| Mounting | SS Trolley instead of SS tabletop |

Note:

1 - Cascade temperature controller shall be provided for 500°C.

2 -Optional attachments can be provided on request.



Enquiry guide for customized 750 ml models

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 | H6 | Inconel 625 | I6 |
| Hastelloy C 22 | H2 | Nickel 200 | N2 |
| Hastelloy B | HB | Titanium Gr. 2 | T2 |
| Monel 400 | M4 | Zirconium 702 | ZI |
| Inconel 600 | I0 | Tantalum lined | TN |

| C Head Mounting Style | |
|--|---|
| Fixed head with manual vessel raising lowering | K |

| 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 | |
|-------------------------|----|
| Ball valve powder inlet | CS |
| Flush bottom valve | CT |

| H Body & Head Sealing | |
|-------------------------|-----|
| Split clamp bolt design | BVP |

| I Control Panel | |
|--|-----|
| SS Control panel with programmable PID temperature controller & high temperature alarm | STD |
| Ex-Proof gas group IIC zone 1 certified | F2C |
| Touch Screen | TSP |

| J Mounting & Overall Dimensions (W x D x H) | | |
|---|------------------|----|
| Trolley | 1010 x 410 x 880 | TL |

| K Certifications** | |
|---|------------|
| CE-PED 2014 / 68 / EU for pressure vessels or ASME U stamp for Pressure Vessels | PED ASU |
| CE marked panel & electric parts or UL / CSA marked panel & electrical parts | ECE USC |
| ATEX certified electricals | ATP |
| ATEX certified system as per 2014 / 34 / EU | ATM |

Note:

- 1) Customer is advised to select best suited options for most optimized price & delivery.
- 2) All above options may not be available / possible with all models.
- 3) Customization of volume, material, pressure, temperature etc. may be possible on request
- 4) Different power supply options may be possible on request.
- 5) 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