



EQUIPODIA

Equipodia Process Equipment UK Ltd

*Engineered to Impress. Priced to Move.*

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# Reactor Configuration Worksheet

DATE: \_\_\_\_\_

Customer & Contact Details		Enquiry Reference No	
No	Item	Requirements	Remark
1	Is this unit intended as a replacement for an existing reactor (or storage tank)? If so, please bypass the technical form and simply send us your design drawing with the equipment specifications. We can use those to ensure a direct match.		
2	Equipment type (e.g. Circular tank reactor, vertical, open top, etc.)		
3	Number of units required		
4	Maximum working volume (L)		
5	Maximum working pressure (MPa)		
6	Maximum operating temperature (°C)		
7	Material of construction (for Metal reactors only)	Body	
		Tank inner wall (contacting surface with the reaction medium)	
		Valves and other nozzles etc.	
		Gasket material	
		Internal surface polish level required: Please specify based on your process e.g. Standard industrial (Ra 1.3 -2.5 µm), Food grade (Ra 0.5-1.0 µm), Sanitary/Pharma AI (Ra < 0.6 µm)	
8	Reaction medium properties:	Organic (y/n)	
		Flammable (y/n)	
		Corrosive (y/n)	pH Range
		Toxic (y/n)	
		Explosive (y/n)	
9	Agitation Requirements: If an agitator is required, please specify preferred mixing speed (RPM) and motor power (kW). Alternatively, you may provide your fluid viscosity and density for our recommendation.		
	Is variable agitation speed necessary for this process?		
	Is the unit going to be installed in an ATEX / NEC rated area? Please give details if yes.		

10	Preferred stirrer type: Please specify based on your process (e.g., Reaction, Extraction, Crystallization, Gas Dispersion, Homogenization).		
11	Viscosity of the reaction medium (cps):		
12	Density of the reaction medium (g/cm <sup>3</sup> ):		
13	Is inner coil needed for cooling & heating?		
	Specify your preferred type of cooling/heating fluid		
14	Thermal Management: Is an external jacket required for heating/cooling? If so, please specify the preferred configuration: Double-wall (Standard) or Limpet Coil (Half-pipe).		
	Thermal Media: Please specify the available heating/cooling media (e.g., Steam, Thermal Oil, Process Water, or Electric)		
15	Nozzle Schedule: Please specify the required quantity, size, and orientation of the ports on the reactor head. If you have a standard layout or a General Arrangement (GA) drawing, you may attach it instead.		
16	Are sensors (e.g. temperature, pressure, level transmitter, mass flow meter etc.) and control / monitoring system required?		
17	Does the system require condensers, feed tanks, receivers, or other auxiliary equipment? If yes, please specify.		
18	Should we incorporate any other bespoke features or adjustments at this stage?		
19	Which regulatory or industry certifications are required for this application? (CE, ISO, ASME, PED, etc.)		
20	What are the standard operating voltages at your location for single-phase and three-phase power?		