



# Jacketed Process Reactor

Product Technical Sourcing Proposal  
Industrial Mixing Equipment



Real supplier reference image. Final brand, model and appearance depend on selected quotation.

## RECOMMENDED SUPPLY CONFIGURATION

Choose the smallest working volume that meets the batch target, then confirm product viscosity, contact material, agitator type, motor load, heating or cooling duty, seals and cleaning method.

## Product Overview, Applications & Primary Use

---

Stainless steel reactor with heating jacket, temperature control and mechanical seal agitator for chemical and pharma batches.

### Technical sourcing approach

- Confirm the real operating duty and site conditions before comparing models.
- Compare supplier quotations against one common technical specification.
- Require a factory test, drawings, manuals and a critical-spares list.
- Plan freight, inspection, installation interfaces and after-sales support before purchase.

### Applications and primary use

- Batch preparation, blending or process holding for the stated product.
- New production where vessel volume and mixing time are matched to demand.
- Replacement or expansion after checking product-contact materials and connections.
- Local installation with utilities and support steelwork confirmed before manufacture.

WOLLEN LAB



## Product-Specific Technical Specification

| Selection parameter      | Required function / value                              | Buyer or site input                           |
|--------------------------|--------------------------------------------------------|-----------------------------------------------|
| Working and total volume | Provide usable batch capacity with safe freeboard      | State batch size and batches per shift        |
| Product properties       | Design for viscosity, density, solids and temperature  | Provide product data or sample                |
| Contact material         | Compatible stainless steel or lined construction       | State hygiene/corrosion requirement           |
| Agitator                 | Impeller and speed range suited to the mixing duty     | Describe required result and mixing time      |
| Motor and drive          | Adequate torque with suitable speed control            | State power supply and hazardous-area needs   |
| Heating/cooling          | Jacket or coil sized for process duty when required    | Provide inlet/outlet temperatures and utility |
| Seal and discharge       | Prevent leakage and permit complete product discharge  | State pressure/vacuum and outlet size         |
| Cleaning and controls    | Safe cleaning access and only required instrumentation | Confirm CIP/manual cleaning and control level |

### Buyer checklist and quotation requirements

- State product, viscosity, density, solids and operating temperature.
- Confirm batch size, batches per day and required mixing time.
- Specify contact material, surface finish and hygiene or corrosion requirement.
- Describe the required mixing result and any powder/liquid addition sequence.
- State heating, cooling, vacuum or pressure duty and available utilities.
- Confirm inlet, outlet, platform, load-cell and cleaning requirements.
- Request general arrangement, motor list, weld/finish details and test video.

Final technical parameters, included accessories and acceptance criteria must be confirmed in the supplier quotation, test report and purchase contract. Do not purchase from photographs alone.

## Indicative Product Pricing & Supply Guide

### PRODUCT QUOTATION BASIS

Final pricing for Jacketed Process Reactor follows the confirmed technical specification, required rating or capacity, included accessories, inspection scope, delivery terms and destination.

| Supply component                   | Indicative planning range | Quotation basis                               |
|------------------------------------|---------------------------|-----------------------------------------------|
| Mixer or vessel package            | US\$3k-30k                | Minimum useful volume and process duty        |
| Agitator, controls and accessories | US\$1k-8k                 | Only required process functions               |
| Freight and clearance              | US\$2k-10k                | Shipment based on actual vessel dimensions    |
| Local installation and utilities   | US\$1k-6k                 | Local piping and steelwork where practical    |
| Low-entry mixing project total     | US\$7k-54k                | Final price follows material and process duty |

### Technical sourcing and delivery process

|         |                                                                         |
|---------|-------------------------------------------------------------------------|
| Phase 1 | Define requirement and request comparable quotations - 1 to 2 weeks     |
| Phase 2 | Technical clarification, negotiation and inspection plan - 1 to 3 weeks |
| Phase 3 | Manufacture or refurbishment - typically 3 to 10 weeks                  |
| Phase 4 | Shipping and customs clearance - typically 3 to 7 weeks                 |
| Phase 5 | Local installation, training and trial operation - 1 to 3 weeks         |

These are non-binding planning ranges. Final product price and delivered cost depend on the confirmed specification, accessories, inspection, freight, customs, exchange rate and destination.

## Sanaatchi Support & Contact

---

- Supplier search using one confirmed product specification
- Side-by-side technical and commercial quotation comparison
- Factory test, documentation and pre-shipment inspection coordination
- Lowest-cost practical logistics planning from China to Afghanistan
- Installation-interface, spare-parts and after-sales coordination

### **Sanaatchi Industrial Vision Group**

Afghanistan Office: +93 779 819 820 | [info@sanaatchi.com](mailto:info@sanaatchi.com)

China Office: +86 159 5171 6867 | [china@sanaatchi.com](mailto:china@sanaatchi.com)

Website: [www.sanaatchi.com](http://www.sanaatchi.com)

### Supplier image references

- Supplier image reference:

<https://image.made-in-china.com/2f0j00CnGMDysdPuqO/Pilot-Scale-Half-Pipe-Jacketed-Reactor-for-Process-Development-and-Optimization.jpg>

- Supplier image reference:

<https://image.made-in-china.com/2f0j00wVjzHoLFGMqA/Gr-3-Lab-Reflux-Distiller-Stirring-Chemical-Reaction-Process-Jacketed-Glass-Reactor.jpg>