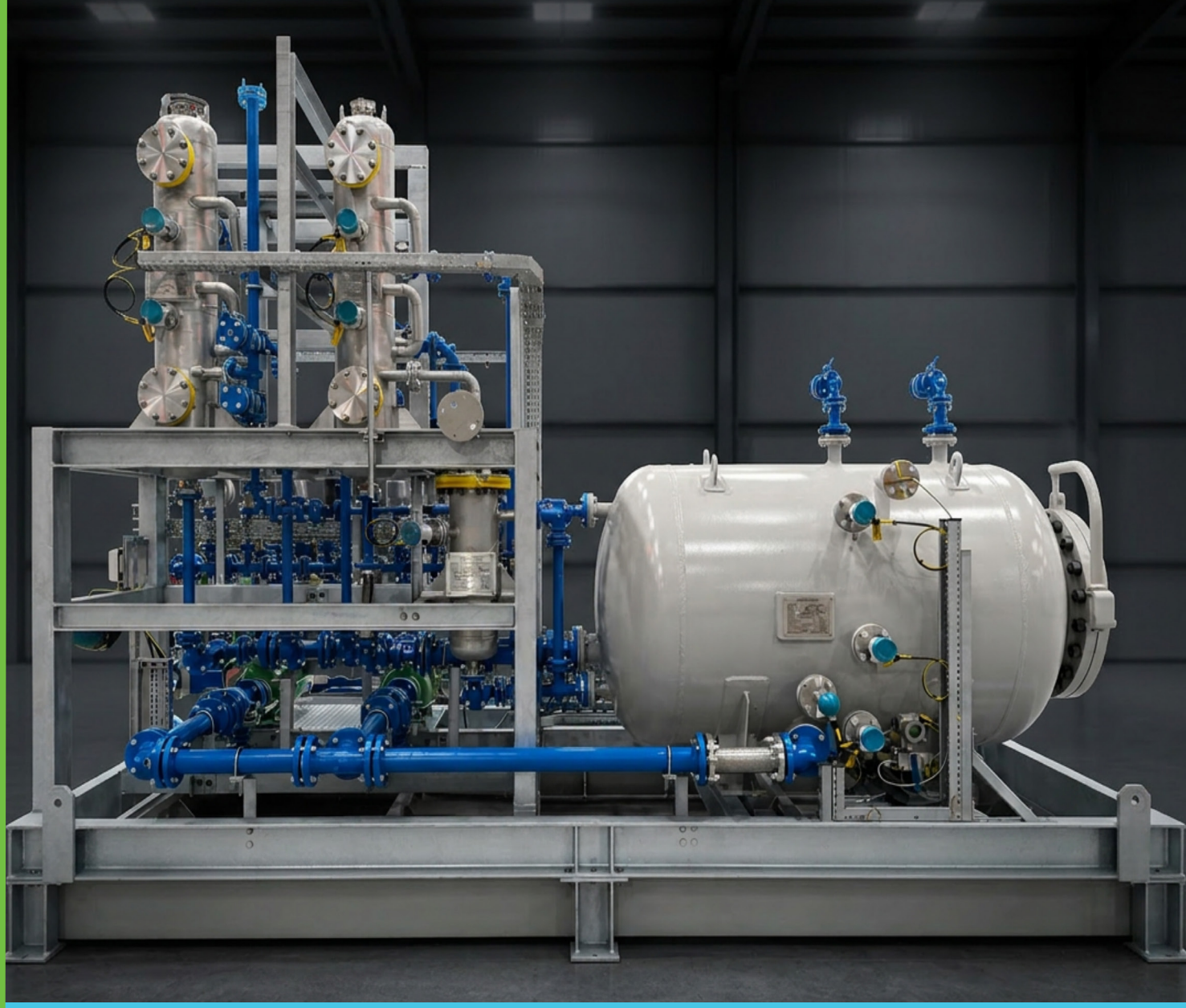


Skid-Mounted Process Packages

Engineered, factory-built systems for chemical and industrial applications

ergapc.co.uk

ERG
Air Pollution Control

Fully integrated skid-mounted systems

01

ERG skid-mounted systems are delivered across a range of industries, including chemical manufacturing, pharmaceutical production, metal refining, speciality gases and energy applications

A skid-mounted package is a fully integrated process system assembled onto a structural base frame, incorporating all mechanical, piping, electrical and control elements required for operation.

ERG's skid systems are engineered as complete units, designed around the specific process duty and operating conditions, using high specification materials of construction and quality controlled, robust OEM components, and fully certified by ERG to all applicable codes and standards.

Each package is factory assembled and tested prior to delivery, reducing site risk, shortening commissioning time and ensuring predictable performance.

02

Engineering approach

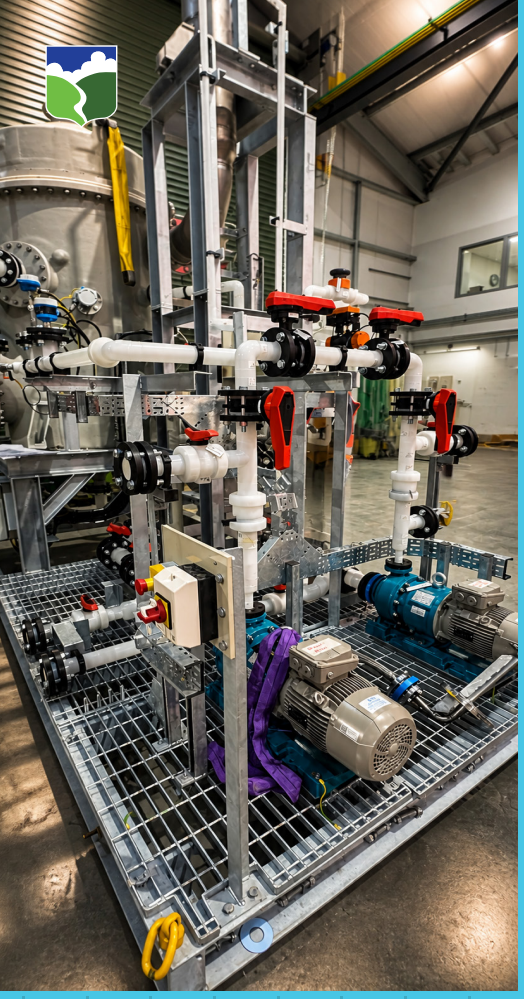
All skid-mounted systems are developed from first principles, based on process conditions, chemistry and operating requirements

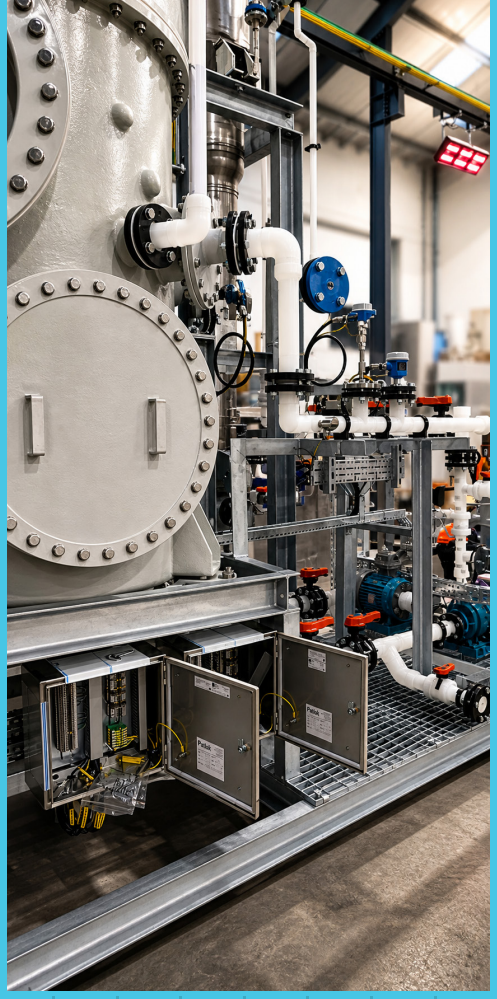
ERG applies a multi-discipline approach, integrating process, mechanical, electrical and ICA (instrumentation, control and automation) engineering to deliver systems that perform reliably under real operating conditions.

The design considers not only steady-state duty, but also variable loads, start-up conditions and long-term operation. Equipment selection, layout and control philosophy are all developed as part of a single engineered solution.

Each skid package has a full design & engineering documentation pack, including :

- P&ID
- 3D model
- engineering schedules
- process control philosophy
- heat & mass balance





03

Modular skid architecture

Skid-mounted systems can be configured to suit a wide range of process requirements, from standalone units to multi-skid installations

Packages may include individual pump or dosing skids, integrated process skids, or multiple units operating in parallel to achieve higher flowrates or phased capacity increases.

This modular approach allows systems to be scaled, transported and installed efficiently, while maintaining a consistent engineering standard across the full installation.

The packageis typically certified to CE or UKCA as appropriate against all relevant directives and legal requirements (pressure, ATEX, machinery, etc) dependent on ERG's exact skid package equipment scope.

04

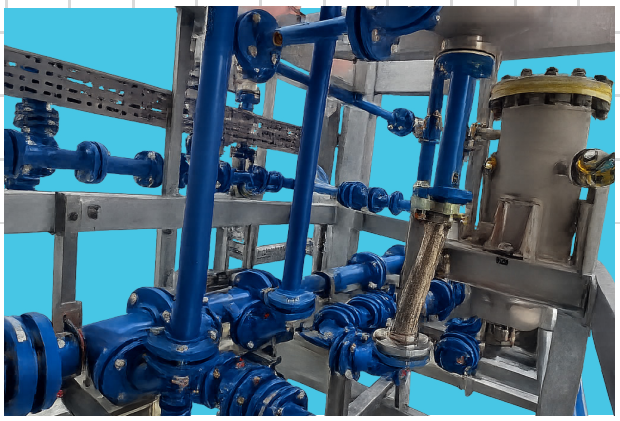
Materials & specification

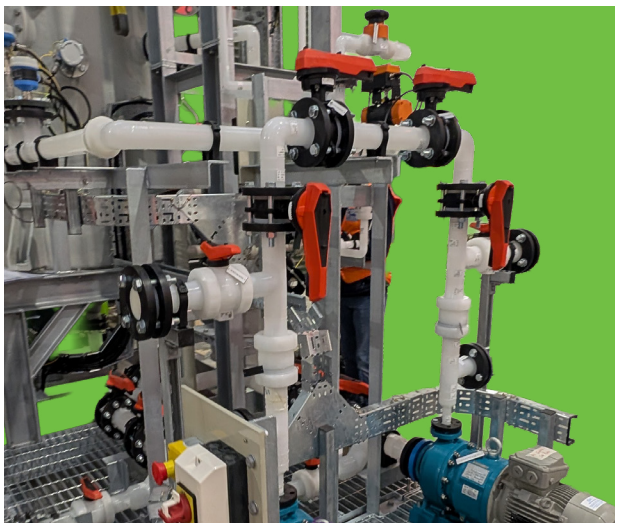
Material selection is driven by process chemistry, temperature, pressure & lifecycle requirements

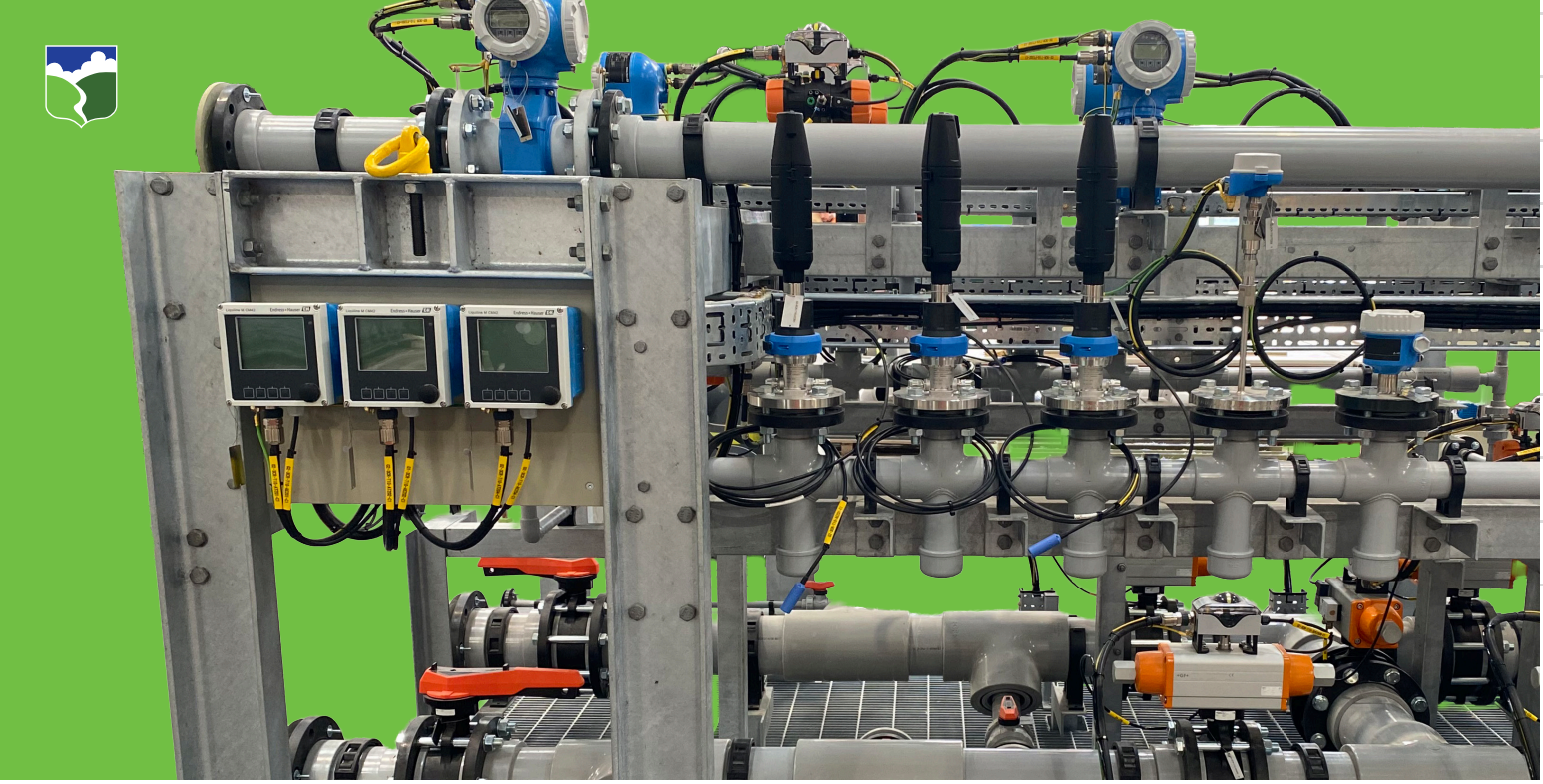
Vessels are manufactured using corrosion-resistant materials selected to suit process duty, including ECTFE, PVDF, PP and cPVC-lined GRP, specialist resins such as Derakane, and metallic options including 304/316 stainless steel and high-performance alloys such as C22 and C276 Hastelloy.

Pipework and pumps are specified using compatible materials, including PTFE/PFA-lined steel, ECTFE, PVDF, PP, cPVC, uPVC and stainless steel systems.

Vessels are designed and certified in accordance with PED or PE(S)R, with design and manufacture to BS EN 13121 or PD 5500 as appropriate.







05

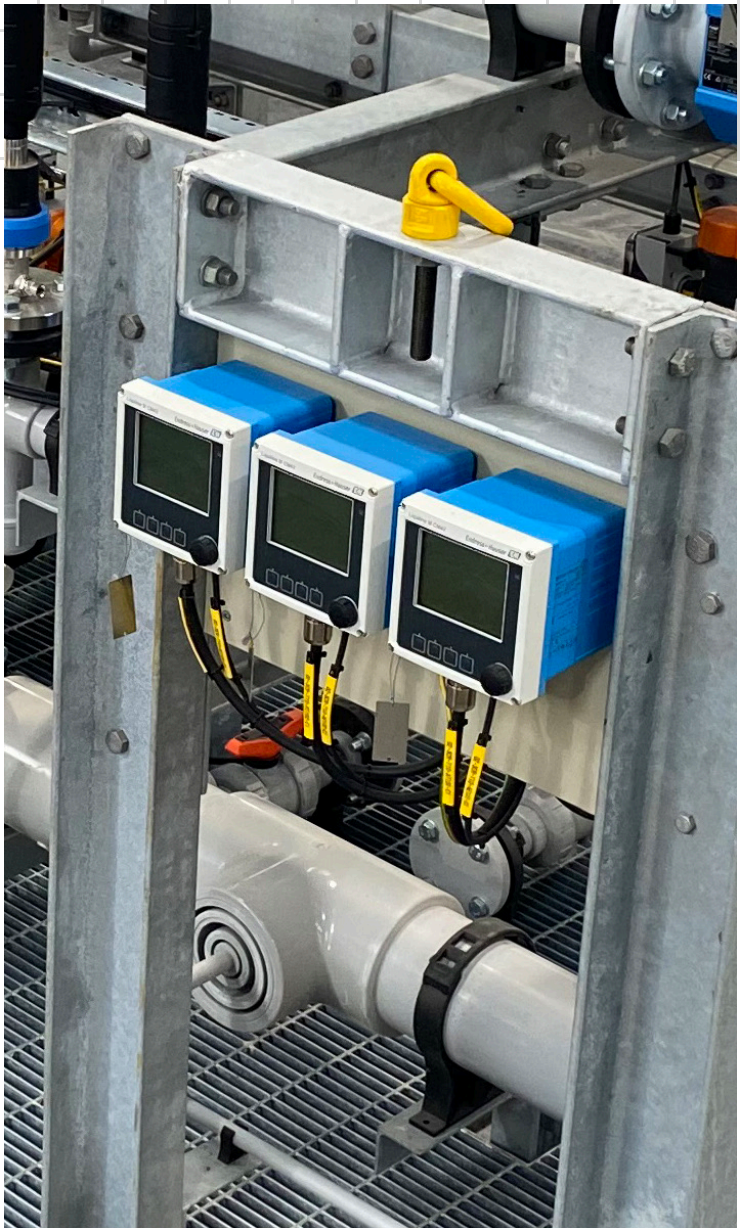
Controls & integration

Skid-mounted packages are supplied with integrated control and instrumentation systems to enable safe and reliable operation

Systems typically include PLC-based control with local interfaces, together with instrumentation for monitoring process conditions such as pressure, flow, level and composition.

Skids are pre-wired where appropriate, reducing site installation requirements and simplifying integration with existing plant control systems. Electrical and instrumentation systems can be supplied to meet hazardous area requirements, including ATEX, UKEX or IECEx certification where required.

Skid packages are supplied with integrated cabling to local junction boxes, RIO panels or full MCC/ICA control panels, with pneumatic systems incorporated for valve actuation where required.



06

Factory assembly & testing

All skid packages are assembled and tested in a controlled workshop environment prior to delivery

Systems are inspected and tested to verify fabrication quality, mechanical integrity and functional operation. This may include pressure testing, equipment checks and control system verification. Factory assembly and testing reduces installation risk, shortens commissioning time and provides confidence in system performance before it reaches site.

07
Applications

ERG skid-mounted systems are delivered across a range of industries, including chemical manufacturing, pharmaceutical production, metal refining, speciality gases and energy applications.

Each system is engineered to meet specific process and compliance requirements, with a focus on performance, reliability and ease of integration.

From initial design through to delivery and ongoing support, ERG provides solutions aligned with operational and regulatory demands.

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