Ekofluid®

Bespoke oil equipment

Engineered for oil, built to the process

Bespoke systems are built for critical applications where oil quality directly affects safety, performance, or compliance, serving industries from automotive and medical to defense and research. Backed by long-term technical support, they bring precision engineering together with real-world reliability, built to perform and built to last.

These systems are engineered for processes where oil quality is essential to safety, efficiency, or compliance. Applications span a wide range of industries, from automotive manufacturing, medical devices, and vacuum systems to oil production, refining and re-refining, additive blending, and sorbent reactivation. They also serve pulse-power systems, defense technology, consumer electronics with dielectric cooling, and high-voltage components for research and specialized equipment. Wherever an operation depends on oil purity, stability, or custom fluid performance, the tailored system provides the precision and reliability the process needs, built specifically for that process and environment.

Bespoke systems are already in use with engineers and operators across industries and continents, in high-spec manufacturing plants, specialty service operations, and industrial labs, delivering reliable results year after year. The equipment is only part of it; the support is the rest. Every custom project carries a dedicated team that understands the technical objectives, provides clear documentation, and stays available after delivery. Remote diagnostics, spare parts, and future system upgrades are part of a commitment to long-term performance, not one-time delivery.

Every Bespoke system is built from scratch around the process it serves, not adapted from a template. Every element is tailored to the fluid type, the treatment goals, and the operating conditions, so the system fits the workflow, runs efficiently, and carries no unnecessary compromises.

Every system in this catalogue is built from the ground up to match the operation it serves, whether the fluid is a specialized oil for industrial machinery, medical equipment, or a manufacturing process. The engineering starts with the process, not a template: design, layout, and internal components are set to the fluid characteristics, treatment goals, flow rates, available space, and operating conditions. The result is better integration, higher efficiency, and fewer compromises. It is not about adding features, but about building the exact features the process needs. The machine is built to fit the work, not the other way around.

These systems do more than pump, heat, or store oil: each one solves a specific technical challenge with a targeted solution. Removing contaminants, dosing precise quantities of additives, holding oil stable over time, every function is engineered with a clear purpose. Optional modules such as vacuum systems, heating circuits, and real-time quality monitoring are integrated as the process requires, nothing overbuilt and nothing missing. Each project applies Ekofluid's fluid-management engineering to deliver a system that is straightforward to operate, efficient to run, and built around the end goal.

Custom systems for treating, mixing, purifying, and storing oils, engineered to the process, the fluid, and the performance the application requires.

Custom-built for non-energy applications

Built for dielectric oil treatment in specialized equipment, not energy systems.

Engineered for the specific oil

Designed around the chemical properties and use case of the oil.

Flexible design, fully adaptable

Built to the workflow, the fluid type, and the environment, with no fixed templates.

CABOIL

Custom dielectric oil treatment

CABOIL is built for operations that need more than standard oil treatment equipment. The systems are custom-built to process dielectric oils for non-energy applications: compressors, X-ray machines, vacuum pumps, pulse generators, cooling systems, and more. Every unit is engineered to the specific oil type, flow rate, treatment goal, and installation environment.

From vacuum drying to degassing and fine filtration, CABOIL brings field-proven processes together with fully automated controls and a modular architecture that adapts to the requirement. Optional features such as heating, flow control, oil testing, and remote monitoring are added as needed. Installed as a stationary line or built into a rugged mobile platform, each system is manufactured in-house for high reliability, consistent performance, and full operational control, however demanding the application.

Designed for the oil

Every CABOIL system begins with the oil, not a preset design. For mineral-based, synthetic, or silicone dielectric fluids, the treatment process is engineered to the oil's chemical properties, viscosity, contamination profile, and use case. From drying and degassing to filtration and heating, each stage is set to the operational targets, cleanliness standards, and service expectations. The tailored approach holds oil stability, extends equipment life, and protects downstream performance, which matters most in sensitive applications like medical devices, compressors, and precision industrial systems.

Built around the requirement

CABOIL is not limited to a fixed platform or set of configurations. From flow capacity and vacuum level to physical layout, build size, and control logic, every aspect of the system is engineered to the operational need. A compact mobile unit for field use or a high-throughput line for continuous production, the design is adapted to the workflow, the infrastructure, and the goal. The requirement defines the system. That extends to special fluids, harsh environments, integration with existing systems, and full mechanical or electrical customization.

Intelligent, automated, operator-friendly

CABOIL brings precise process control together with an interface built for real operators in real working conditions. The integrated control platform manages temperature, vacuum, flow, and cycle timing to hold stable results through operator changes and fluid variations. Fully automated sequences minimize human error, and optional features such as smart touchscreens, remote diagnostics, data logging, and active safety alerts add usability and oversight. CABOIL is straightforward to operate, easy to maintain, and built for steady performance.

CABOIL, smart oil treatment

Custom systems for precise, automated treatment of dielectric oils in industrial and medical applications.

Custom-built for non-energy applications

CABOIL is built for dielectric oil treatment in specialized equipment like X-ray machines, vacuum pumps, and pulse generators, not just energy systems.

Engineered for the specific oil

Each system is designed around the chemical properties and use case of the oil, whether mineral, synthetic, or silicone-based.

Flexible design, fully adaptable

From a compact mobile unit to a large stationary setup, CABOIL is built to the workflow, the fluid type, and the environment, with no fixed templates.

Smart automation, simple operation

Automated controls manage every step of the process, and an intuitive interface with remote monitoring keeps operation straightforward and error-free.

Custom-built for non-energy applications

Built for sorbent purification in oil production and recycling, not energy systems.

Engineered for the specific oil

Designed around the oil's contamination profile and chemistry.

Flexible design, fully adaptable

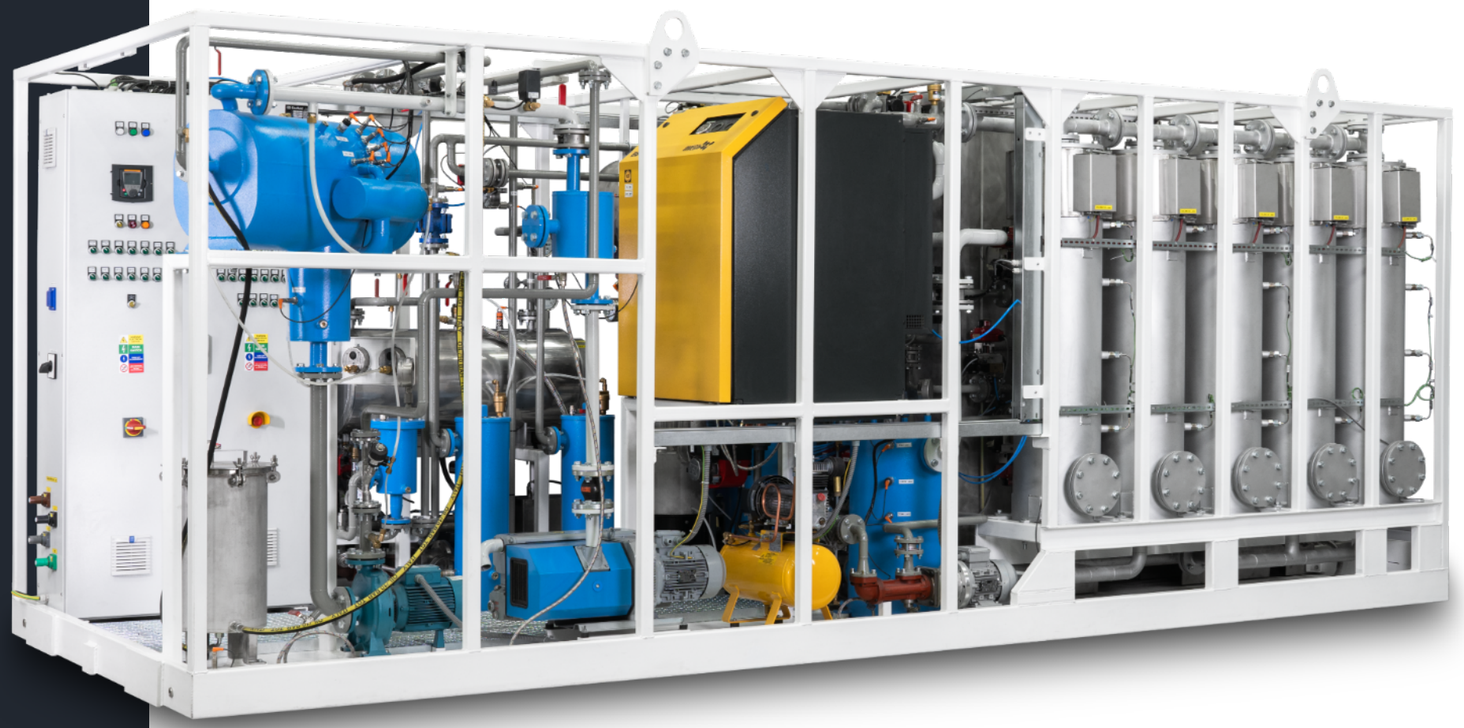
Built to the throughput, the space, and the operating model, with no fixed templates.

SORBOIL

Custom sorbent purification

SORBOIL is engineered for oil purification using activated bauxite sorbent media. The systems are purpose-built for industrial applications where reducing acidity, removing sulfur compounds, or reactivating used sorbent is essential, particularly in oil production and recycling. Usually built as large stationary units integrated directly into production lines, SORBOIL carries high throughput and continuous operation for demanding environments.

Each system is customized to the technical requirement, with options for vacuum support, precision dosing, automatic sorbent handling, and integrated heating. Most units are plant-scale, and compact mobile systems are built for smaller operations or decentralized treatment. Whether the job is stabilizing reclaimed oil or fine-tuning product quality before final use, SORBOIL is a reliable, automated platform for chemical purification, tailored to the process.



Industrial-scale purification

SORBOIL is engineered for high-load operations where oil purification is a critical part of production. Removing sulfur, correcting acidity, or capturing polar contaminants, the system uses optimized sorbent beds and controlled flow paths for efficiency, extended sorbent life, and minimal downtime. Built primarily for stationary use, these systems integrate directly into production lines and support continuous operation in demanding environments. Each unit withstands harsh industrial conditions and delivers repeatable performance, holding quality and compliance without disrupting the core process.

Flexible sorbent handling

SORBOIL supports sorbent handling and regeneration workflows matched to the operating model. Single-pass sorbent or integrated reactivation for long-term cost efficiency, the system is adapted to the technical and chemical requirement. Options include automated dosing, thermal reactivation, manual refill access, and multi-stage configurations. Sorbent type, bed volume, residence time, and flow rate are all set to the oil-quality targets and the production speed, for stable purification at lower operating cost and less manual intervention during changeovers and maintenance.

Customized for the operation

No two SORBOIL systems are alike. Each is designed to the physical space, the control preferences, and the operational goals. A compact mobile version for testing or decentralized processing, or a full-scale plant-integrated unit with heating, vacuum, and continuous automation, each is built to spec. Features such as flow monitoring, sensor feedback, data logging, and PLC integration streamline process control. From layout and materials to safety and usability, the system is aligned with the operation's internal standards so it fits exactly.

Custom-built for non-energy applications

Built for fluid formulation and additive blending, not energy systems.

Engineered for the specific oil

Designed around the fluid and the additive package.

Flexible design, fully adaptable

Built to the batch size, the flow rate, and the process, with no fixed templates.

MIXOIL

Custom mixing and dosing

MIXOIL is engineered for accurate mixing, dosing, and conditioning of oils with additives, inhibitors, and performance agents. Built to the requirement of the fluid-formulation process, each unit supports tightly controlled blending through integrated pumps, heating elements, agitation systems, and automated flow management. Antioxidants, stabilizers, or custom additive packages, MIXOIL holds consistent results with tight process control and high repeatability. The system runs standalone or integrated into an existing production line. Flow rates, batch sizes, agitation strength, and dosing precision are all customized. From small-batch development to high-volume blending, MIXOIL delivers the control and consistency the process needs, without compromising fluid integrity or downstream performance.

Custom-built for non-energy applications

Built for critical-application oil storage, not energy systems.

Engineered for the specific oil

Designed around the oil type and the conditioning the fluid needs.

Flexible design, fully adaptable

Mobile containers or fixed tanks, built to the oil, the space, and the handling need, with no fixed templates.

STOROIL

Custom storage and conditioning

STOROIL goes well beyond basic oil tanks. These are intelligent storage systems, purpose-built to hold the quality, stability, and readiness of oil over time. Built for operations where oil purity and system integration matter, STOROIL can carry in-line filtration, real-time quality sensors, integrated heating, and dedicated vacuum systems for de-aeration and moisture prevention. Each unit is custom-sized to the oil type, the space, and the handling requirement. Dedicated pumps, flow control, and sensor feedback loops keep the fluid within optimal parameters and ready for immediate use. Mobile containers or fixed tanks with automated process integration, STOROIL is secure storage for critical applications where oil condition is never optional.

Built on precision, backed by expertise, delivered worldwide

Every system is designed, built, and tested in-house, with full control over mechanical, electrical, and software integration. Deep technical expertise, hands-on craftsmanship, and a focus on quality come together to deliver systems that work exactly as specified. From first sketch to final commissioning, the same engineers stay involved, because long-term performance starts with getting the details right from day one.

Engineered in-house, end to end

Every system is engineered, assembled, and tested in-house, mechanical, electrical, and control systems included. In-house build gives full control over how each component interacts and performs over time. From the first CAD drawing to the final FAT, performance is aligned with real-world demand, not theory. Nothing is subcontracted. The result is precision from start to finish, with full traceability and tight integration across every stage of production.

Craftsmanship that shows

The equipment is built to spec and built with care. Skilled technicians handle everything from precision welds to internal wiring, with attention to serviceability, durability, and safety. The craftsmanship is visible in the finish and felt in long-term reliability. Every bolt, bracket, and system layout carries the standard that goes out to customers around the world.

Global support, local focus

Wherever the equipment is installed, Ekofluid support is close. Global assistance comes through the service network and remote tools, and every system is supported with a clear focus on the site's environment, team structure, and operational reality. Support does not end at delivery; it continues with the operation's needs. From start-up to long-term service, the machine is backed by people who understand the application.

Proven know-how, practical solutions

Experience across oil production, recycling, specialty processing, and high-spec industrial work brings more than technical ability. It brings problem-solving: adapting core processes to fit a specific challenge without reinventing what already works. The knowledge is earned through projects, not found in manuals.

> **Every system is engineered in-house, with the precision and care a custom build demands**

Proof, in numbers

Thirty years of building, installing, and supporting fluid processing systems, counted the only way that matters. The numbers below are not targets. They are the record.

30+
years

Three decades of vacuum and adsorption engineering, applied to transformer oil treatment and regeneration, and refined on every unit built since 1996.

70+
countries

Installations across six continents, with service crews and spare parts reaching transformers wherever they run.

500+
systems delivered

In daily operation with utilities, contractors, and service companies, treating the oil that keeps transformers in service.

99%
customer retention

Build quality, configuration, and lifetime support that keep customers across relationships measured in decades, not orders.

Ekofluid®

One competence, many applications

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