



KERONE
Kerone Engineering Solutions Limited



50⁺ Years
Of experience

INFRARED DRYER



ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018

ABOUT US

Kerone Engineering Solutions Ltd is a global leader in advanced industrial heating, drying, cooling & end to end process engineering solutions. With over five decades of proven expertise, we specialize in designing, manufacturing, and delivering highly customized, cutting-edge systems tailored to the evolving needs of industries worldwide.

Our commitment to engineering excellence, sustainability, digitalization, and technological innovation has positioned us as a trusted partner for businesses across multiple sectors. By integrating Artificial Intelligence (AI), Machine Learning (ML), and Internet of Things (IoT) technologies into our systems, Kerone ensures smarter automation, real-time monitoring, predictive maintenance, and data-driven process optimization—empowering our clients to achieve greater productivity, efficiency, and reliability.



50+

Years of Experience



10,000+

Satisfied Clients



500+

Employee



100+

Experts



50+

Global Presence



50+ Years Manufacturing Excellence



Great Sale Support



Highly Customized Product



Adherence to Standards



Sound Infrastructure



Team of experts Delivering Quality



Timely Delivery



Cost Effective Solutions



INDUSTRIES WE SERVE

- ✓ Food Processing & Agro-Processing
- ✓ Chemicals & Petrochemicals
- ✓ Pharmaceuticals
- ✓ Textiles, Automotive & Aerospace
- ✓ Paper & Packaging
- ✓ Ceramics & Glass
- ✓ Rubber & Plastics
- ✓ Environmental & Waste Management
- ✓ Oil, Gas & Steel Industries



- ✓ Industry Expertise – Over 50 years of global engineering leadership.
- ✓ Custom Solutions – Tailored engineering that meets unique industrial requirements.
- ✓ Global Reach – Trusted by industries across continents with proven reliability.
- ✓ Digital & Smart Systems – AI/ML-powered automation, IoT-based monitoring, and predictive insights.
- ✓ Cutting-Edge Technology – Continuous innovation in heating, drying, and advanced processing.
- ✓ Energy Efficiency – AI-optimized designs for lower energy consumption and sustainability.

QUALITY & COMPLIANCE

At Kerone, quality and compliance are non-negotiable. All our solutions are engineered in adherence to international standards and industry best practices, ensuring maximum safety, durability, reliability, and efficiency. With integrated digital technologies, we enable smarter quality control and compliance tracking across all operations.





Powered by AI/ML & IoT

Infrared Dryer

The Infrared Dryer is a high-performance drying system designed to achieve fast, uniform, and energy-efficient moisture removal through advanced infrared radiation technology. Unlike conventional hot air drying methods, infrared heating transfers thermal energy directly to the product surface, enabling rapid heat absorption and significantly reducing drying time. This direct heating approach improves process efficiency, lowers energy consumption, and ensures consistent drying quality. The system features precise temperature control and adjustable radiation intensity, making it suitable for a wide range of materials, including heat-sensitive products, while minimizing the risk of overheating, shrinkage, or product degradation.

Built with robust industrial-grade construction, the Infrared Dryer offers reliable operation, low maintenance, and long service life. Its compact and space-saving design allows easy integration into existing production lines and supports both batch and continuous drying processes. The dryer delivers uniform moisture removal, quick start-up, and stable performance, enhancing overall productivity. It is widely used for drying powders, granules, coatings, films, textiles, food products, pharmaceutical materials, and industrial components, making it an ideal solution for food processing, pharmaceutical, chemical, and general manufacturing industries.

Key Features

- **Efficient Infrared Heating**
Direct heat transfer to the product surface ensures fast drying with reduced energy consumption

- **Uniform Drying Performance**
Delivers consistent heat distribution, preventing hot spots and uneven moisture removal.
- **Precise Temperature Control**
Allows accurate control of drying conditions, suitable for heat-sensitive materials.
- **Rapid Drying Cycles**
Significantly shortens drying time and increases production throughput.
- **Energy-Saving Design**
Minimizes heat loss by reducing airflow requirements, lowering operating costs.
- **Low Maintenance Operation**
Simple system design ensures reliable performance with minimal maintenance.

Advantages

- **Faster Drying Time**
Direct infrared heating significantly reduces drying cycles compared to conventional methods.
- **Lower Energy Consumption**
Efficient heat transfer minimizes energy loss, resulting in reduced operating costs.
- **High Process Efficiency**
Rapid heat response improves throughput and overall production efficiency.
- **Improved Product Quality**
Uniform heating prevents overheating, shrinkage, and surface damage.
- **Suitable for Heat-Sensitive Materials**
Controlled temperature ensures safe drying without degrading product properties.
- **Consistent and Reliable Performance**
Delivers stable drying results with repeatable process control.

Applications

Industry	Description
Food Processing	Drying fruits, vegetables, grains, spices, snacks, and coated food products with fast and uniform moisture removal.
Pharmaceutical	Drying granules, powders, tablets, and active ingredients while maintaining product quality and stability.
Chemical	Moisture removal from chemicals, resins, pigments, and intermediates with controlled heating.
Textile	Drying and curing of fabrics, fibers, and printed or coated textiles.
Plastic & Polymer	Drying plastic components, films, sheets, and polymer-based materials.
Automotive	Drying and curing of coated parts, components, and assemblies.
Paper & Printing	Drying printed paper, labels, packaging materials, and inks.



Technical Specifications

Parameter	Specification Range	Description
Heating Method	Infrared Lamps / IR Emitters	Direct radiant heat source
Operating Temperature	40 – 300 °C	Adjustable drying temperature
Temperature Control	±1 to ±2 °C	Accurate temperature regulation
Heating Power	1 – 50 kW	Total installed heating capacity
Drying Capacity	2 – 500 kg/hr	Material processing rate
Moisture Removal Rate	1 – 25 kg/hr	Water evaporation capacity
Radiation Wavelength	0.8 – 4.0 microns	Effective infrared spectrum
Insulation Thickness	25 – 75 mm	Minimizes heat loss
Power Supply	220–415 V, 50/60 Hz	Electrical requirement
Exhaust System	Natural / Forced	Moisture removal system
Control System	PID / PLC	Process and temperature control
Noise Level	<70 dB	Low operating noise



THANK YOU

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