

Product datasheet

Infrared Drying Ovens

Essa RD10 & RD10HMI

Our Essa Infrared Drying Ovens are semi-automated sample drying systems that have been designed for efficiency, speed, and reliability. The RD10 and RD10HMI Infrared Drying Oven innovate the data analysis process by delivering faster drying results while reducing energy usage and costs. With a small footprint and a capacity to handle a variety of sample sizes, they are suitable for any laboratory requiring a durable Infrared Drying Oven.

Key Benefits

- Fast-drying capabilities with advanced heating technology
- Reduced energy use and cost with infrared heating
- Small, versatile, and durable equipment

Fast-drying technology for efficient and reliable drying results

Infrared heating technology for faster and more precise sample drying

The Infrared Drying Ovens utilise advanced heating technology to transfer heat directly onto the sample's surface, which enhances the drying process.

The use of infrared heating both reduces energy use and cost. The ovens are also capable of directing heat towards just the sample, rather than the area around the sample. This limits the amount of energy that is wasted, making the process more efficient.

As they are built from stainless steel, the infrared dryers can endure both high temperatures and volatile materials. They are also compact, small enough to fit easily on a benchtop, and can handle samples up to 8kg in weight.

Essa RD10 Infrared Drying Oven

The Essa RD10 Infrared Drying Oven is a quick-drying tray-based oven that utilises infrared heating technology to streamline the sample preparation and analysis process. It is available in two models, which are the RD10-B and the RD10-R. Both are capable of handling samples of up to 8kg in weight and can be upgraded to adapt to even larger sample sizes.

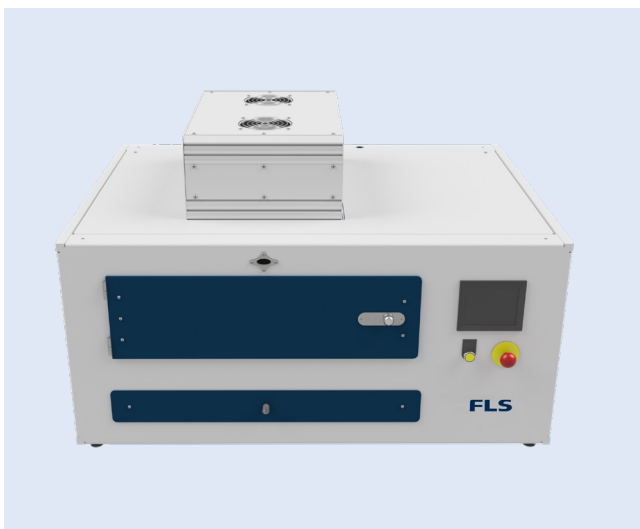
The Essa RD10 is suited to benchtop operation and includes both an external control panel to display real-time information

about sample analysis and safety sensors for a more user-friendly process. It heats samples from above with a temperature-controlled infrared heating head, but a hotplate can also be installed to heat the samples from below, speeding up drying times. Temperatures inside the system are continuously measured to make sure that drying results are accurate.

Essa RD10HMI Infrared Drying Oven

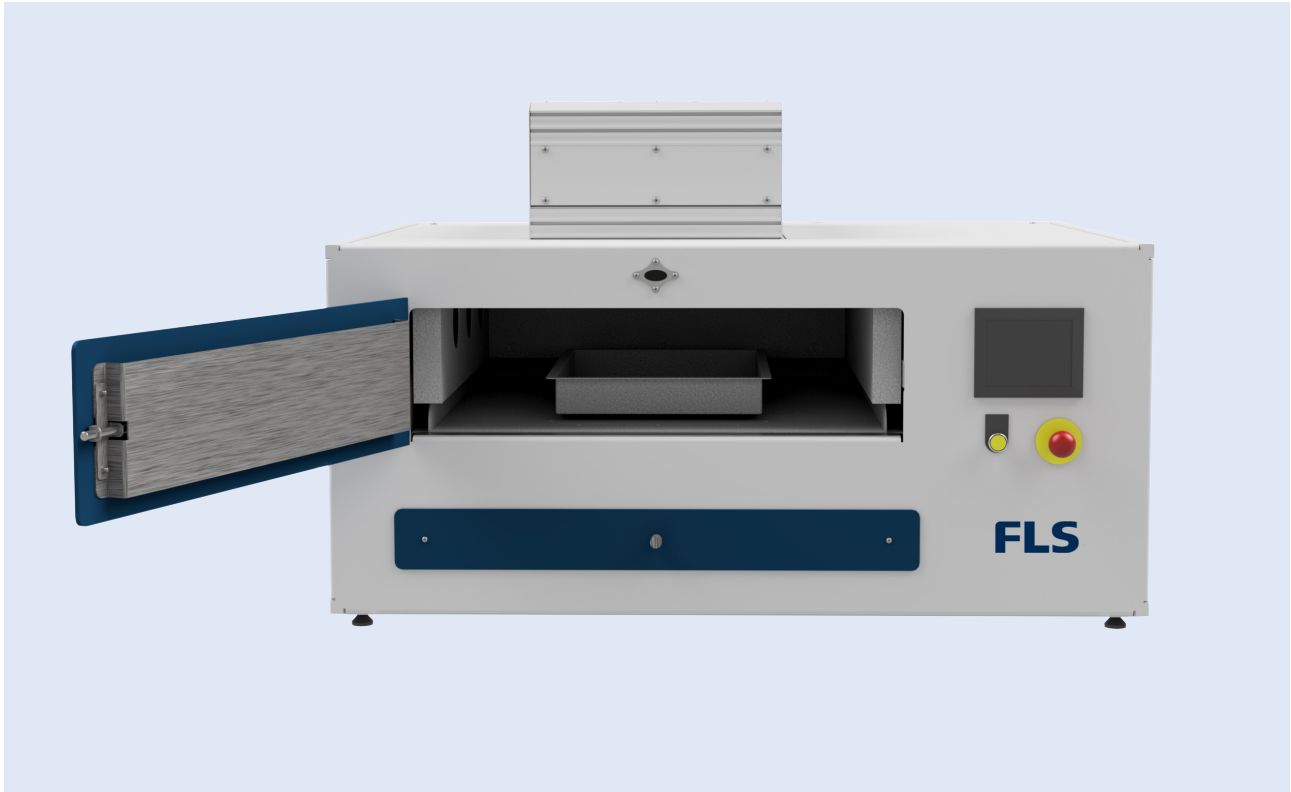
Similar to the Essa RD10, the Essa RD10HMI Infrared Drying Oven is a tray drying system that is capable of handling sample sizes up to 8kg. It can achieve fast drying results with the combined use of infrared heat lamps and a hotplate for above-and-below heating. Using both technologies simultaneously removes sample moisture at a faster rate, ensuring a superior drying process.

Sample data is displayed in real-time with a HMI colour touchscreen, which can be used to maintain the system as it operates. A pyrometer and thermocouple are used to monitor the temperatures of both the heat lamp and the hotplate, allowing for greater control of sample heating and drying.



Key Features

- External control panels with touchscreen capabilities for easy sample analysis
- Safety sensors for operator protection
- Versatile heating options for quicker sample drying
- Continuous temperature measurement for enhanced precision



Specifications	
Dimensions (L x W x H)	1080 x 860 x 700 mm
Sample capacity	8 kg
Power rating	6 x 1 kW
Power requirements	400V x 3 ph

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