



Good quality laboratory ovens are crucial to maintaining uniform temperatures throughout heating procedures. Lab ovens are used in a wide range of forced convection applications across different scientific disciplines. They are regarded as a common daily lab instrument, principally used for general heating routines such as drying, sterilizing, curing, and gentle heating of samples.

Nowadays, oven applications have expanded beyond simple drying and are widely present across diverse industries including healthcare, transportation, and technology industries. Lab ovens are also used in the fields of chemistry, biology, forensics, and pharmaceuticals.

Several manufacturers today offer a wide selection of ovens, each designed with a number of options and functions to meet different heating requirements. The differences in oven design and construction entail that not every oven can fit everyone's needs. As a result, end-users may find an increasing selection of oven capacities, configurations, and added safety features available in the market today.

In this guide, Yamato Scientific has put together the essential factors to help you land the perfect oven. Read on as we tackle how to select the perfect unit by assessing your application requirements, deciding on the right oven configuration, design and features, and how you can work out the best price value for your oven.



2. Oven Design and Features

What Features Are Important to You?

Laboratory oven models range from having practical to over-the-top features. But before diving into ovens with attractive oven features that you might not even need, remember that long list of features often translate to a higher price tag. To help you focus on what's important, we've listed key features you should look for in your oven.

Safety and Reliability

Even though ovens are considered as a staple day-to-day lab instrument, these units still pose potential threats such as contaminant generation, overheating of samples, and proneness to fire and explosions. Which is why finding reliable ovens with the right safety features for your application is necessary to protect both samples and users.

Search for ovens built with quality materials and reliable thermal and control units. It's important to pay attention to certificates of compliance with internationally recognized and accepted standards. Yamato's ovens are designed under stringent quality control and facilities that are certified ISO9001, ISO14001, and OHSAS 18001.

If you're leaning towards natural ovens, remember to choose a model that offers safety features that prevent overheating, fast heat up and recovery time, and great temperature uniformity. At Yamato, you can find [natural convection ovens](#) equipped with state of the art safety features including self-diagnostic functions, overheat protection, and over current leakage breaker to name a few.

Additional safety features that may come as a plus are viewing windows, adjustable shelves, door alarms, and lockable doors. You can also opt for ovens that automatically shows warnings when the temperature is above a certain point and can only be opened once it cools off.

Energy Consumption and Efficiency

Laboratory ovens used for heating and drying processes often run for long periods of time and with high temperature protocols. At the end of the day, your oven will be the most substantial energy load that will consume large amounts of electricity. Which is why selecting ovens with an optimal energy footprint can help provide you with significant savings over time.

Look for ovens constructed with great thermal insulation that reduce thermal transfer rates. This will prevent the generated heat from leaking out of the chamber and reduce wasted energy. If you're looking for energy-efficient ovens, try Yamato's [DNE](#) or [DNF ECO saving units](#).

3. Deciding on Your Lab Budget

If you have worked out a budget and are looking for brand new lab ovens, browse through Yamato's diverse selection of [new laboratory ovens](#).

For facilities looking for cost-efficient alternative from new oven models, Yamato, from time to time, features reliable phased-out and refurbished ovens offered at a fraction of the price.

Savings you get from buying these equipment will make more room in your budget for new equipment or supplies that you really need.



At Yamato, you will find phased-out & refurbished lab ovens that have been serviced and tested to meet the highest of industry standards. Many sellers will offer you used equipment but few of them invest in the expertise to test, diagnose, and repair sophisticated scientific instrumentation such as ours.

With over 125 years of experience in the industry, Yamato Scientific America is equipped with providing utmost quality service and high performing products in the scientific market. All products are manufactured in compliance with stringent quality standards and international regulatory requirements.

You are also guaranteed excellent customer service from LR Technologies. With over 50 years in the oven business we have the expertise, reliability, and extensive knowledge to help you from ordering, to plugging in, and beyond. We also have ability to add custom options if needed such as custom ports for example. Many units can ship SAME DAY!

**Visit Our Web Site To View Our Inventory of NEW Yamato Lab Ovens www.LRE.com
Or Call 323-770-0634 800-574-2748 Sales@LRE.com**