



OPERATING MANUAL



FREEZE DRYER

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How to Choose the Right Refrigerator for Your Research

A quick guide to help you choose the right model

Picking the most suitable refrigerator for biological materials, sensitive materials, and reagents is necessary-it's not just storing items; it's about preserving the quality of your research and achieving constant results. The wrong refrigerator can spoil or ruin your samples, cause unstable results, and add extra prices.

At Biolab Scientific, We understand the importance of choosing a model that best fits your lab's requirements. Here's a simple quick guide which help you to make the best choice.



Reliable refrigeration solutions for every research need.

Determine Your Storage Needs

Category	Description
Medicinal Products	Includes drugs and testing materials used for therapeutic, diagnostic, or experimental medical purposes.
Biological Samples	Covers tissues, cultures, vaccines, and enzymes - typically obtained from living organisms and used for research or analysis.
Chemicals and Reagents	Includes light-sensitive or unstable substances that require proper storage to maintain stability and effectiveness.
General Laboratory Materials	Consists of culture media, buffers, and consumables used for everyday laboratory functions.

Note: The temperature needs and safety features differ based on the type of material stored.



Different applications require different temperature controls - Biolab offers models tailored for every sample type.

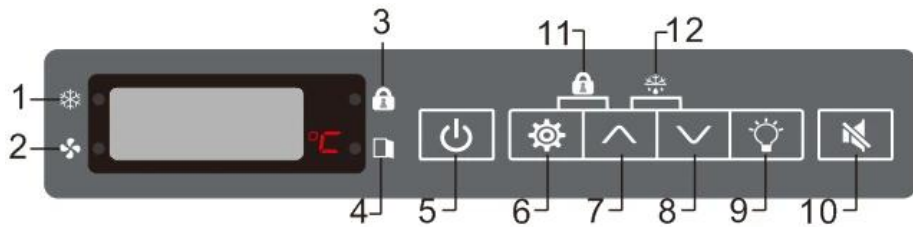
2. Temperature Range & Stability

Storage Type	Temperature Range	Purpose
Standard Laboratory Refrigerators	+2°C to +8°C	Used for general storage of reagents, chemicals, and non-sensitive materials.
Pharmacy Refrigerators	+2°C to +8°C (with tighter uniformity)	Ensures consistent, uniform cooling for sensitive vaccines and medicines.
Ultra-Low Temperature Freezers	-40°C to -86°C	Provides long-term preservation of biological samples such as tissues, cells, and enzymes.

Consistent performance is supported by temperature distribution, reliable microprocessor controls, and built-in alarms that signal any temperature changes.

Some key features are as follows:

- Uniform temperature distribution
- Microprocessor-based controllers
- Audible/visual alarms for temperature fluctuations.



Compressor Running Indicator

Fan Running Indicator

Keyboard Lock Indicator

Door Open Indicator

Power Switch

Set Button

Up Button

Down Button

Light Switch

Mute Button

Keyboard Lock (Combination key)

Defrost (Combination key)

Microprocessor-based temperature control ensures precision and stability in every Biolab unit.

3. Capacity & Space Planning

While choosing a refrigerator, please know the storage you required today and also for next few years.

Check the floor space before you decide on the size of the unit.

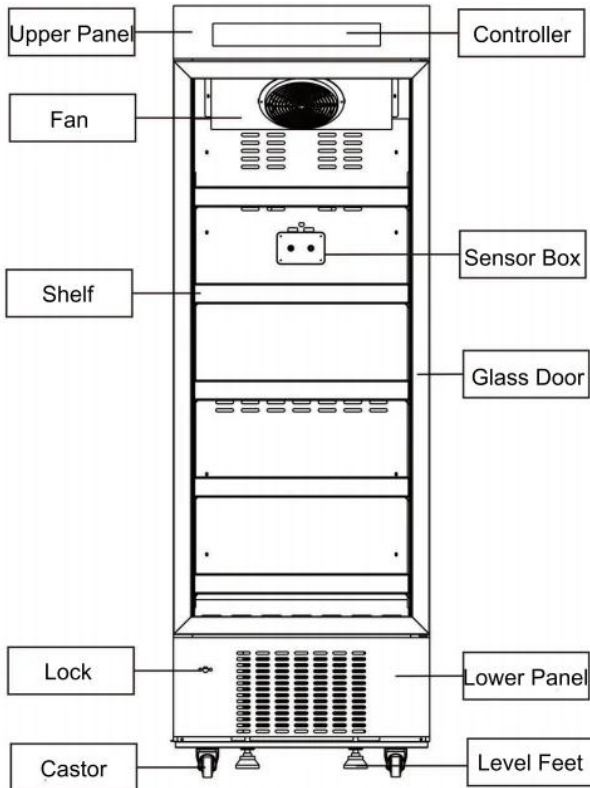
Options include like:

Compact refrigerators are suitable for small laboratories.

Upright models are used for storage of high-volume use.

Under-counter units are right option when space of floor is limited.

Note: Placing many items inside can block airflow and affect cooling stability.



From compact to high-capacity models - Biolab refrigerators fit every lab layout.

4. Safety & Compliance Features

Safety of sample is as important as storage of sample. Lab equipment should include features such as:

1. Door should have locks for controlled access.
2. Battery-backed alarm systems for safety during power failures.
3. Automatic defrost system to maintain constant output.
4. Data logging with monitoring for continuous observation.
5. Following to global standards like ISO, CE regulations for further supports reliability.

These features are significant for certified laboratories, clinical research trials, and pharmaceutical industries.



Safety first - Biolab refrigerators meet ISO, CE, and WHO standards with built-in alarms and secure access.

5. Energy Efficiency & Sustainability

The cost of operation can become high over time, so it's smart to choose refrigerators built for efficiency.

Models should be with energy-saving compressors

LED lighting

Better insulation that helps to reduce the power consumption while maintaining output.

Low noise functions add comfort to the workspace.

And using eco-friendly refrigerants is another benefit for sustainability.



Energy-efficient design reduces operating costs and environmental impact.

6. Service, Warranty & After-Sales Support

A refrigerator is a long period of investment. So, make sure your supplier offers full help, not only the equipment. Choose the installation support, calibration support, regular maintenance, and long-term warranty plans to keep your instrument operating properly.

At Biolab Scientific, we deliver complete end-to-end service - from delivery and installation to reliable after-sales support along with two-year warranty support.



End-to-end support - Biolab ensures smooth installation and long-term maintenance.

Buyer's Guidance

Before you buy your products, take a moment to check a few key things:

Assure the refrigerator covers the right temperature range for your specific application and has enough capacity to meet both your current and future needs.

Go for the important safety features includes alarms, locks, and observation systems, along with an energy-saving design to reduce functioning costs.

See that model follows the global standards such as ISO and CE.

Choose the trusted supplier who provides you strong customer support and comfort.

Conclusion

The right laboratory refrigerator is necessary for ensuring the safety of your research, meeting regulatory standards, and reducing long-term prices. If you need a small under counter model or a full-size upright unit, Biolab Scientific provides you a wide range of refrigerators designed for reliable performance, Stability, and safety.

Explore our range of Laboratory Refrigerators, and we will help you find the perfect fit for your lab.



Explore Biolab's full range of laboratory refrigeration systems - built for performance, safety, and reliability.



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