



Glass Oven G-300

The Multipurpose Solution For Small Samples



Glass Oven G-300

Simplify your workflow with one instrument

Introducing the Glass Oven G-300, BUCHI's all-in-one instrument for small samples. With interchangeable accessories, the Glass Oven G-300 can perform distillation, drying, sublimation, and freeze-drying, eliminating the need for multiple large instruments. Its compact size even allows placement in a glovebox, ensuring the safe handling of air-sensitive samples.



All-In-One Solution

The Glass Oven G-300 comes in two configurations, each with a range of interchangeable accessories allowing for various applications. The Glass Oven G-300 Drying can be used for drying, sublimation, and freeze-drying, while the Glass Oven G-300 Kugelrohr can be used for distillation and drying under rotation.

Gentle Sample Processing

The Glass Oven G-300 features a semiconductor coating that ensures uniform heat distribution and accelerates heating and cooling. This gentle heating minimizes thermal damage to your samples, while the transparent chamber allows for real-time sample monitoring.



Effortless Savings

Maximize your efficiency with the intuitive Glass Oven G-300. Processing small samples on large instruments is inefficient and wastes energy. The compact Glass Oven G-300 was designed for optimal performance and ease of use, making it suitable for all skill levels and perfect for crowded labs.



Angle adjustment button

To adjust the angle of the heating tube.

SET button

To set heating temperature.

Heating tube

With semiconductor coating for gentle heating and fast heating and cooling times.

STOP button

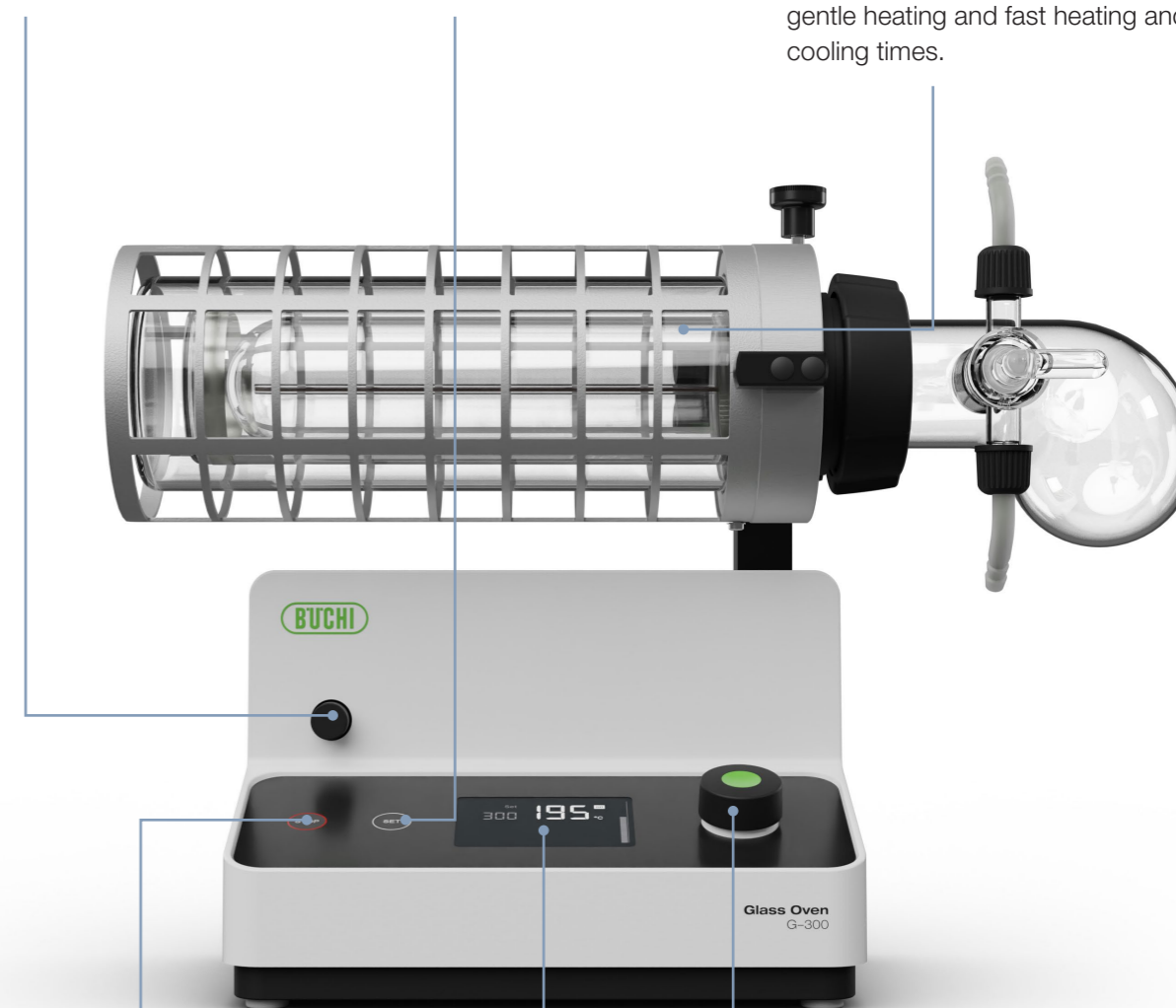
To stop the process and the connected vacuum pump.

Interface

Showing heating temperature and rotation speed.

Navigation control

To adjust heating temperature and rotation speed.



One Instrument, Many Methods

Sample preparation streamlined

Expand your glass oven's capabilities with interchangeable accessories for various processes. The Glass Oven G-300 is available in two configurations, and all accessories can be acquired separately if needed.

Glass Oven G-300 Drying



Drying

Ensure gentle and efficient drying of small samples at temperatures up to 300 °C. For heat-sensitive samples, drying can be performed under vacuum to preserve the integrity and quality of delicate materials.

Sublimation

Sublimation is the direct transition of a substance from a solid to a gas, bypassing the liquid phase. It yields exceptionally pure products without requiring additional solvents. To perform this method, add the sublimation accessory.

Freeze Drying

Freeze-drying is ideal for preserving the integrity of samples. The process involves freezing a solution and reducing the pressure to sublimate the ice. To perform this method, add the freeze-drying accessory.

Glass Oven G-300 Kugelrohr



Distillation

Perform simple and fractional distillations of small liquid volumes. It uses a bulb-to-bulb method for condensation outside the oven. Extend the number of bulbs by up to four to match the mixture's components. For low-boiling substances, a cooling tray can be filled with a cooling agent.

Drying Under Rotation

Some samples form a hard surface layer, drastically increasing the drying time. To avoid this, use the rotation drying flask to keep the sample in constant rotation.

