

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**

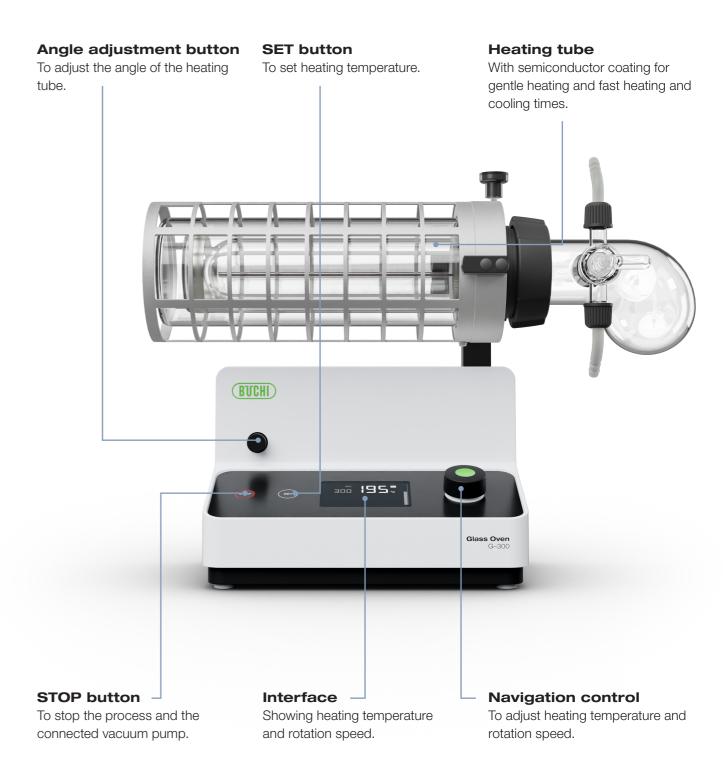
The Glass Oven G-300 features a semiconductor coating that ensures uniform heat distribution and accelerates heating and cooling. This gentle heating minimizes thermal damage to your samples, while the transparent chamber allows for real-time sample monitoring.





#### **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.



## 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.