



Holder Pumping Chamber



Vacuum storage and conditioning for TEM holders

Protect holders between experiments

When a TEM holder is not in use, vacuum storage is recommended. This pumping chamber stores up to two holders and supports both convenient cryo-holder warmup and regeneration of the dewar's internal carbon material.

2-Holder Capacity

4-Holder Expansion

DN 63 ISO-K

DN 25 ISO-KF

CRYO HOLDERS PUMPING ASSEMBLY

Configured options for major holder platforms

Simple Origin offers a dedicated pumping chamber solution for up to two TEM holders. In addition to storage, it supports cryo-holder warmup and regeneration. The assembly can be configured with or without a pumping station and can be adapted for different holder families.

- ✓ **DN 63 ISO-K flange** for connection to a turbomolecular pumping station.
- ✓ **Stackable design** allows two pumping chambers to support up to four holders.
- ✓ **Dedicated dewar pumping port** for each holder with a manual vacuum valve.
- ✓ **Compatible with Thermo Fisher (FEI), JEOL, and Hitachi** holders.
- ✓ **DN 25 ISO-KF flange** for connection to a vacuum gauge.
- ✓ **Transparent housing** around the tip areas allows convenient observation.
- ✓ **Supplied with hose and two blind plugs** for immediate setup.
- ✓ **Available as chamber only or with a pumping system** depending on the application.

Included with the chamber

- Two holder ports with dedicated dewar pumping access
- Manual vacuum valves for each pumping port
- Transparent housing around the holder tip areas
- Connection hose and two blind plugs

Typical use cases

- Safe vacuum storage between microscope sessions
- Bakeout and/or warmup of cryo holders after use
- Support for shared labs using multiple holder brands
- Flexible chamber-only or fully integrated pumping setups



Port Plugs



Pumping Chamber Top View
Overhead view showing the compact chamber layout.



Optional Pumping Station
Configured system with the integrated Pfeiffer pumping station.



Dual Holder Configuration
Example system configured for a dual-holder setup.