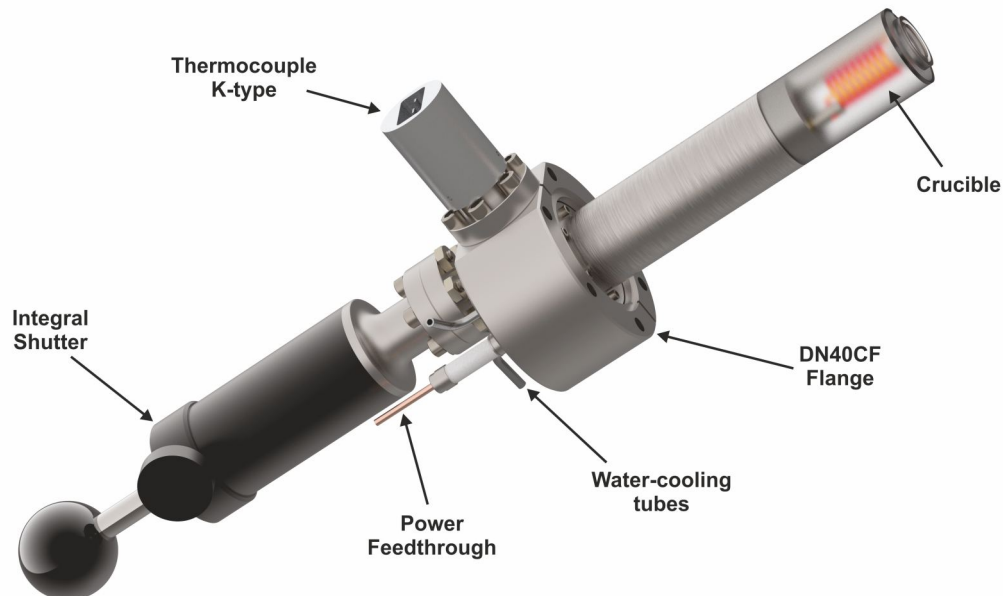


# Lithium Evaporation Source

## Model: Evap 40-Li



### Features

The Model Evap40-Li is a thermal vacuum evaporator tailored to tackle the inherent challenges of lithium evaporation, especially its reactivity and the need for a precise temperature control. Lithium's tendency to bond with oxygen, nitrogen, or moisture in the air is a major obstacle. The Evap40-Li addresses this by allowing lithium to remain in an argon atmosphere during transfer from re-filing crucible with Li metallic pallets (Glove Box) to the vacuum system. This enclosed handling minimizes exposure to reactive gases, preserving the lithium purity until it's ready for evaporation.

The SH500 Heater, equipped with PID controller, offers versatile operation through both manual and PC-based control interfaces. This allows users to regulate either the current or the temperature with precision, a critical capability for managing lithium evaporation processes. By enabling fine-tuned adjustments, the SH500 ensures reliable and uniform vapor deposition.

### Specifications:

- Mounting flange: DN40CF (2.75" CF, 70 mm O.D.)
- Diameters: 130 mm vacuum insertion length or longer and 30 mm O.D.
- Water cooling: internal water-cooled shield to prevent excessive heating of surrounding components.
- Crucible: Speciality designed crucible to be filled with Li metallic pellets
- Filament: Tungsten filament heater with current range 0- 20 A
- Thermocouple: K-type
- Temperature ranges: 50-500 C
- Shutter: integral manual shutter based on linear actuator
- Handling: Completely sealed housing in argon gas