

LOAD LOCK CHAMBERS

Application

Load lock chambers provide a fast and clean method of introducing samples into UHV systems.

Specification

Load locks may be positioned at various places on the UHV system, such as direct connection to the radial distribution chamber, linear transfer line or glovebox. Our standard range of load lock chambers are suitable for most positions and most applications but we will also be happy to fabricate to your individual specifications. Load lock chambers are typically equipped with:

- Load lock chamber mechanism (see section **Load Lock Chamber Mechanisms**)

- Pump system
- Viewports
- Pressure gauges

The top port of the load lock chamber mechanism is usually sealed by a viton gasket. The chambers are equipped with UHV connecting flanges and additional ports for future versatility. They are designed for base pressures between 1×10^{-7} mbar and 1×10^{-9} mbar. A range of options exist for e.g. LN_2 cooling or heating samples up to 600°C . For more information about heaters see chapter **Bakeout Equipment – Halogen Lamp Heater**.



Load Lock chamber examples

