



















Key:

-  VICI Valco selector valve
-  pneumatic-actuated shutoff valve
-  MKS 248D flow control valve
-  MS-controlled change-over-valve
-  LabVIEW-controlled change-over-valve
-  fixed flow restriction
-  adjustable flow restriction

-  isokinetic T with mass flow controller
-  water trap (-60°C)
-  MKS 275 Convectron
-  Alicat Scientific M-100 mass flow meter
-  MKS 223B 10-Torr differential pressure transducer
-  diaphragm pump

-  20W halogen lamp
-  resistance temperature detector (RTD)
-  electric feedthrough
-  cold head (33-34K) with resistance heater inside vacuum housing
-  Pfeifer turbomolecular pump