

High Vacuum Sintering Furnace

X1

Principle

Furnace for heat treatment under high vacuum

Manufacturer	Xerion Freiberg
Furnace Type	vertical recipient, water cooled
Heating System	tungsten mesh heater
Useable Volume	diameter approx. 150 mm height about 200 mm
Useable Gases	argon, helium as purge gas
Pump Kit	oil-free, scroll pump turbomolecular pump
Pressure Range	high vacuum, better 1×10^{-5} mbar
Temperature Range	maximum temperature: 2200 °C continuous operating temperature: 1900 °C
Optional Equipment	bottomloader, thus in conjunction with helium as purge gas very low oxygen partial pressure
