

Sintering Furnace

MUT 3

Principle

Furnace for heat treatment with the exclusion of oxygen.

Manufacturer	MUT Jena
Furnace Type	Horizontal recipient, water cooled
Heating System	Molybdenum heating, inside
Usable Volume	Base area approx. dia 450mm, Height about 450 mm
Useable Gases	Argon, nitrogen, hydrogen, high vacuum, helium as a flue gas
Useable Gas Flow	0 - 10 l/min each gas
Pump Kit	Rotary vane pump, Roots pump, Turbomolecular pump
Pressure Range	Normal pressure with continuous gas flow (only Ar and N ₂), Pre-vacuum, high vacuum better 1 x 10 ⁻⁵ mbar, partial pressure controlled about 5 to 20 mbar with controlled gas flow (all working gases)
Temperature Range	Maximum temperature: 1500 ° C continuous operating temperature: 1350 ° C
Optional Equipment	Bottom loader, in conjunction with He-flooding very low oxygen partial pressure