

Microwave Sintering Furnace

MW 1

Principle

Furnace for heat treatment in the absence of oxygen, combined heating concept.

Manufacturer	GERO
Furnace Type	horizontal recipient, water cooled
Heating System	molybdenum heating, inside microwave generator 6 kW
Useable Volume	base area approx. 350 x 300 mm, height about 350 mm
Useable Furnace Atmosphere	argon, nitrogen, hydrogen, pre-vacuum
Useable Gas Flow	0 - 10 l/min each gas
Pump Kit	rotary vane pump
Pressure Range	normal pressure with continuous gas flow, pre-vacuum, better 1 x 10 ⁻¹ mbar
Temperature Range	maximum temperature: 1500 °C continuous operating temperature: 1350 °C
Optional Equipment	<ul style="list-style-type: none">• debinding at low binder contents possible by heated exhaust system and inliner• heating power input into the sample volume by microwave coupling (depending on material)