

# High-temperature/ high-vacuum type BM furnace model GHBX-9102V

## [Outline]

This equipment is an electric furnace to grow crystals of metal and others using BM method in a high-vacuum and high-temperature environment.

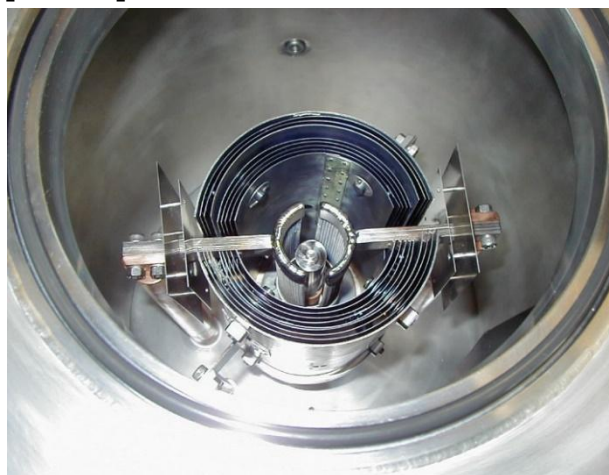
## [Basic Specifications]

Crucibles used	material: Mo.W dimension: 16 or 20 mm diameter and 70 mm long
Structure of main body of furnace	made from SUS304 stainless steel body and water-cooled jacket
Pressure range of use	6.7pa to 0.2 atm
Environmental gas	vacuum or inert gas (argon)
Heated zone	37 mm diameter and 120 mm long
Uniformly heated zone	50 mm wide and 100 mm high
Heater element	tungsten mesh
Heat shield	5 layers of tungsten plus 4 layers of molybdenum
Heating temperature	2000 °C in vacuo, max
Power supply to heater	45 kVA, 200 V three-phase alternating current
Rotation speed of water-cooled crucible axis	2-90 rpm (stability: ±1% of full scale)
Vertical moving speed of water-cooled crucible axis	0.5-20 mm/h (stability: ±1% of full scale)
Extraction of crucible	work after removing upper cover of the chamber
Vacuum exhausting system	160 L/s turbo molecular pump plus 90 L/min rotary pump

## [External Appearance]



## [Heater]



\*To improve performance, specifications might be altered without prior notice.



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