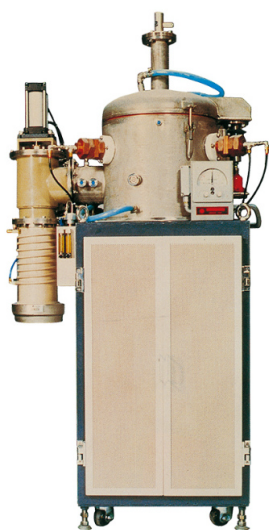


# High-temperature vacuum furnace (SVF)

The SVF Series consists of vacuum furnaces using tungsten heaters, in which heating at up to 2200°C can be attained. This Series can be utilized for research and development as well as production for baking, sintering, heat treatment, etc. of various new materials.



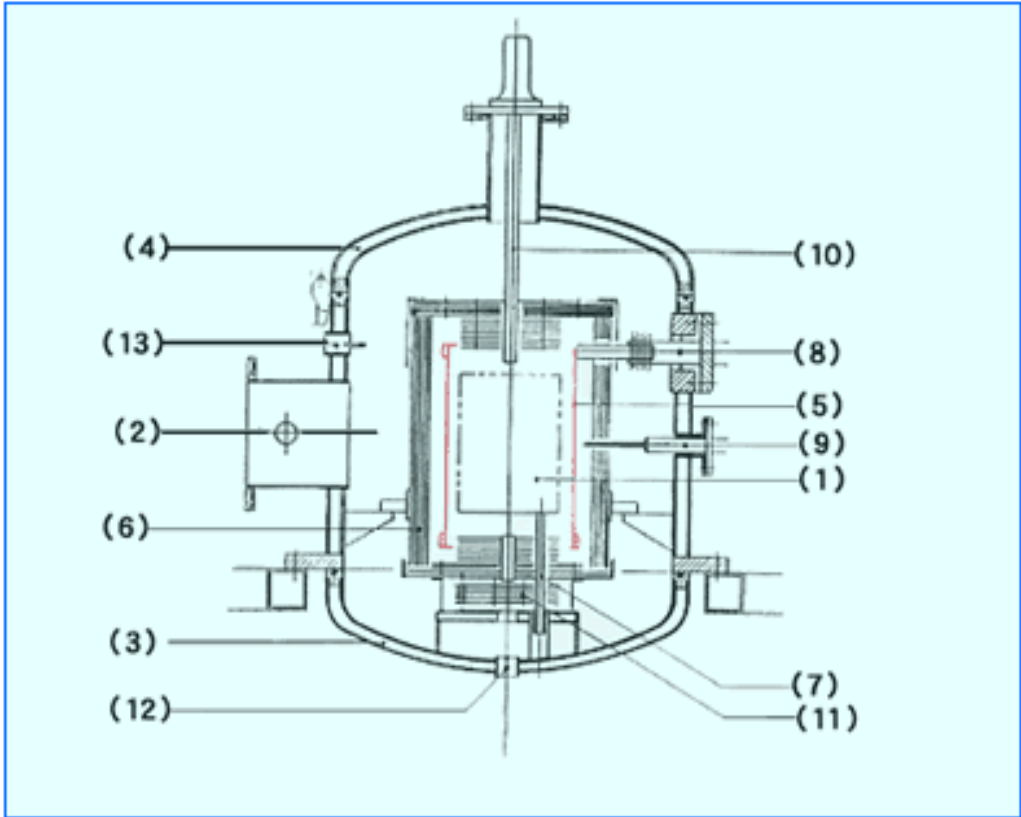
## features

- Easily provides clean vacuum or gas atmosphere.
- Is easy to operate because of automatic operation.
- Attains rapid heating.
- Heating rate is adjustable.
- Is equipped with safety assuring functions (e.g. prevention of overheating, prevention of current overload, water-cooled jacket)

## 【Standard specifications】

Model	SVF-1010	SVF-1520	SVF-3030
Internal dimensions of furnace	φ100×100H	φ150W×200H	φ300×300H
Maximum temperature	2200℃		
Temperature during normal operation	2000℃		
Ultimate vacuum	1.33×10 <sup>-4</sup> Pa(×10 <sup>-6</sup> Torr)		
Atmosphere	Vacuum, H2, N2, Ar		
Heater	Tungsten		
Control method	P.I.D. SCR continuous control		
Power requirements	3φ 200V 30KVA	3φ 200V 60KVA	3φ 200V 150KVA
Quantity of cooling water	20L/min	50L/min	130L/min

## 【Construction】



- (1.)Hot zone
- (2.)Vacuum exhaust outlet
- (3.)Bottom lid
- (4.)Top lid
- (5.)Heater
- (6.)Radiation shield plate
- (7.)Sample support
- (8.)Water-cooled electrode
- (9.)Slide type thermocouple
- (10.)Radiation thermometer
- (11.)Radiation heat shield plate
- (12.)Forced cooling port
- (13.)Forced cooling port