

Vacuum Graphitization Furnace

Model: IVG-50



This equipment is mainly applied in sintering and graphitization of carbon materials, carbon fiber rope sintering, high temperature treatment of battery cathode materials, graphite powder, carbon fiber carbonization, high temperature sintering of contact materials, precision ceramics, high temperature component, powder metallurgy materials, tungsten carbide products, etc., and other materials that can be sintering and smelting in carbon environment.

Technical parameter:

1. Max. using temperature: 3200℃
2. Usual working temperature: 3000℃
3. Input voltage: Three phase five wire 380V±10%,50Hz/60Hz
4. Rated power: 150 KW
5. MF power: 2500Hz
6. Vertical high temperature zone size: Φ 350 mm × L 500 mm
7. High temperature zone volume: 48L
8. Temperature measurement method: high performance dual-color Infrared thermometer
9. Temperature control method: Temperature control mode is divided into automatic control (temperature control accuracy 0.3 level) and manual control.
10. Exhaust method: The exhaust method is divided into intelligent automatic exhaust and manual exhaust. Note: Optional
11. Temperature measurement accuracy: ± 0.75% of full scale. Note: Depending on the accuracy of the infrared probe
12. Temperature uniformity: ≤ ± 8 °C. Note: after insulation for 30 minutes
13. Working atmosphere: Vacuum state or Ar, N2 atmosphere protection (micro-positive pressure)
14. Protection method: PLC intelligent warning, alarm and power supply safety protection.
15. Filter device: N/A
16. Cooling method: Closed inner circulating water cooling system
17. Gas purification: Argon purifier
18. Industrial PC: KUNLUNTONGTAI
19. Vacuum system: Rotary vane vacuum pump, vacuum valves, pipelines and vacuum gauges
20. Total weight: About 3T

Furnace structure:

Complete sets of equipment consists of the power cabinet (power distribution cabinets, temperature control instrumentation, alarm systems, etc.), reactive power compensation device (electrical capacitors, transformers), furnace body (furnace shell, sensors, internal support, loading crucible, vacuum system, insulating layer, insulation layer, etc.), temperature measurement system (infrared thermometer, etc.), vacuum system (vacuum pipeline, vacuum pump, vacuum valve, safety valve, vacuum gauge, etc.).