

# Vertical High Temperature Graphite Vacuum Graphitization Furnace

Item Number: GF-05



## Introduction

Vertical high temperature graphitization furnace for carbonization and graphitization of carbon materials up to 3100°C. Suitable for shaped graphitization of carbon fiber filaments and other materials sintered in a carbon environment. Applications in metallurgy, electronics, and aerospace for producing high-quality graphite products like electrodes and crucibles.

[Learn More](#)

| Product model specifications   | GF-05-Φ40×100   | GF-05-Φ50×100 | GF-05-Φ60×100 | GF-05-Φ70×140 | GF-05-Φ90×160 | GF-05-Φ100×200 |
|--------------------------------|---|---------------|---------------|---------------|---------------|----------------|
| Volume(L)                      | 125   | 196           | 282           | 550           | 1000          | 1500           |
| Rated temperature(C)           | 2800  | 2800          | 2800          | 2800          | 2800          | 2600           |
| Limit temperature(C)           | 3100  | 3100          | 3100          | 3100          | 300           | 2800           |
| Effective heating area (mm)    | Φ400×1000   | Φ500×1000     | Φ600×1000     | Φ700×1400     | Φ900×1600     | Φ1000×2000     |
| Power(KW)                      | 150   | 200           | 300           | 500           | 600           | 800            |
| Frequency(HZ)                  | 1500  | 1000          | 1000          | 1000          | 1000          | 1000           |
| Temperature control method     | Japan Shima Electric Thermostat   |               |               |               |               |                |
| heating method                 | Induction heating   |               |               |               |               |                |
| Vacuum system                  | Rotary vane vacuum pump (for high vacuum requirements, Roots vacuum pump and oil diffusion pump are required) |               |               |               |               |                |
| sintering atmosphere           | N <sup>2</sup> Ar and other gases   |               |               |               |               |                |
| Rated power supply voltage (V) | 380   |               |               |               |               |                |
| Rated heating voltage (V)      | 750   |               |               |               |               |                |
| Vacuum limit (Pa)              | 100 (vacuum cold state)   |               |               |               |               |                |