



Dengfeng Jinyu Thermoelectric Material Co., Limited

High Temp Vacuum Muffle Furnace



Zhengzhou, China



Dengfeng Jinyu Thermoelectric Material Co., Limited

Add: High technology industrial park, Dongjindian, Dengfeng City,
Henan Province, China

Tel: +86-371-63355891 Fax: +86-371-63355893

JY-2000VM Vacuum Muffle Furnace



JY-2000VM Vacuum Muffle Furnace is a CE certified lab furnace using high quality ceramic fiber board with ZrO₂ Liner and 1900°C super MoSi₂ heating elements. Vacuum sealed flange with two valves & vacuum gauge are included for immediate use. The temperature of JY-2000VM Vacuum Muffle Furnace is controlled by high precision controller with accuracy +/-0.5-1°C and 31 segments programmable up to 2000°C. It is widely used for materials or chemical lab to sinter all types of new materials samples under vacuum or other gases condition.

Features:

- Super MoSi₂ heating elements serve as heating element and Max. temperature inside furnace can be reached at 2000°C
- High quality ceramic fiber board with ZrO₂ Liner
- Effective heated chamber: 200x200x300mm
- Built in precision digital temperature controller is 31 segments programmable to control heating rate, cooling rate and dwell time.
- All accessories are included for immediate use, including:
 - Stainless steel vacuum flange with needle vacuum connector and two needle valves are installed on top.
 - Heavy duty high speed mechanical pump and stainless steel vacuum pipe are included.
 - Water cooling system
 - Compact Digital Vacuum Gauge & Controller
 - Double Step Rotary Vane Vacuum Pump
 - PID automatic controller
 - Thermocouple

Specifications:

Furnace Structure	<ul style="list-style-type: none"> ✚ Double layer steel casing with water cooling ✚ Two cooling fan inside to keep case temperature < 55°C ✚ High quality ceramic fiber board with ZrO₂ Liner ✚ Vacuum Furnace Chamber
Vacuum Pump	<ul style="list-style-type: none"> ✚ One Double Step Rotary Vane Vacuum Pump with Exhaust Filter & Inlet is included. ✚ One meter long stainless steel vacuum pipe with adapter and clamps are included. ✚ Vacuum pressure can reach 10⁻⁵ mbar
Seal Flange	<ul style="list-style-type: none"> ✓ One pair sealing flange with double silicone high temperature O-ring is included. ✓ Two SS needle valves and one dial vacuum gauge are installed with flange for immediate use.
Heating elements	Super MoSi ₂ heating elements
Thermal Couples	B type
Working Temperature	1800-1950°C with vacuum, with inert gas.
Max. Temperature	2000 °C
Temperature Controller	PID automatic control via SCR (Silicon Controlled Rectifier) power control, e.g. current limiting phase angle fired the resistor with 31 programmable segments.
Max. Heating / Cooling Rate	1-5°C / min, ≤ 10°C / min (suggested)
Temperature Accuracy	+/- 0.5-1°C
Power	8kw
Power Input	AC 380V,50 Hz, 3 phases (If you have special request, pls tell us when place order)

<p>Power Cable & Plug</p>	<ul style="list-style-type: none"> ✧ 10 feet length 10-3 AWG heavy duty UL approved power cable is included ✧ Extra length cable can be ordered  <ul style="list-style-type: none"> ✧ Plug is not included. You can order from your local hardware store according to female plug in your lab, or order from link below(30A plug) 
<p>Furnace Dimension</p>	<p>Effective heated chamber: 200x200x300mm</p>
<p>Warranty</p>	<p>Three years limited warranty (Consumable parts such as processing tubes, o-rings and heating elements are not covered by the warranty.)</p>
<p>Certification</p>	<p>CE certified</p>

Application:

It is widely used in the laboratory and manufacture of the field of metallurgy, ceramics, machinery, analysis test, semiconductor, chemical industry, metallurgy, and glass industries, new material developing, machinery, fire-proof material, architecture, special material and etc under vacuum or other gases condition.

Also can be used in the fields of science & research and so on.

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☎: +86-371-63355891 📠: +86-371-63355893

✉: jyb@jinyuco.com, jarrywu86@gmail.com

Http: //www.jinyuco.com

Skype: wzhliang86