

## Vacuum Atmosphere Furnace

### Summary of use:

Vacuum/ atmosphere furnace is a kind of heating equipment which can change and adjust the atmosphere or vacuum state in the furnace to make the material sintering in a specific vacuum or atmosphere. Generally, the gas in the furnace is inert gas (helium (N<sub>2</sub>, argon Ar<sub>2</sub>) or reducing gas (ammonia H<sub>2</sub>, carbon monoxide CO), there are nitrogen ammonia mixture, mainly to prevent oxidation or reduction, some special materials into the gas, is as a catalytic auxiliary role. Protective atmosphere tube furnace is suitable for industrial and mining enterprises, scientific research units, colleges and universities, etc. Chemical analysis and physical determination under various atmospheres have been widely used in the research and small batch production of powder metallurgy, ceramic metallization, phosphor powder, battery material, electronic ceramics, chemical raw materials, nano materials and other products.



### Characteristics:

1. Dual temperature zone control mode, two sets of different temperatures can be set at the same time to achieve the temperature conversion of the material in the tube.
2. The air way connection method adopts the quick connection flange structure, loading and unloading is quick and convenient, only a clamp can be completed.
3. the furnace is divided into two parts, the upper part of the furnace can be turned back 100°, easy to take and put and observe materials.
4. The furnace chamber is made of multi-product momi fiber vacuum adsorption, and the temperature field can save more than 50% energy uniformly.
5. Air diversion and heat insulation technology ensures the service life and constant temperature effect of each component in the box.
6. Start the electric furnace, the exhaust fan at the same time white operation, after the end of the test, the exhaust machine will continue to run, until the furnace temperature is low d 60°C, the exhaust fan will stop, effectively protect the furnace surface.
7. The furnace door opens with automatic power off, over-temperature protection function and leakage protection function to ensure the safety of use.
8. The circuit adopts continuous heating output mode, double circuit power supply, and strong and weak power separate wiring to improve the stability of the system.
9. The operation button is made of low pressure metal button, with its own status indicator, which makes the operation safe and intuitive.
10. The air circuit assembly is made of food-grade 316 stainless steel, with good corrosion resistance, atmospheric corrosion resistance and high temperature resistance and no magnetism.

### Technical Parameters: (Diameter unit: mm)

Model	AE-ZFLM-1225	AE-ZFLM-1250	AE-ZFLM-1260	AE-ZFL-1250	AE-ZFL-1260	AE-ZFL-1280	AE-ZFL-12100
Temperature Range	300-1200						
Temperature Accuracy	1						
Heat-up Speed	+1						
Heating power	0-20						
Voltage	1.2KW						
Heating area	AC220CV 50Hz						
Number of area	180			410			
Size of working area	Φ80 x 200			Φ120 x 430			
Control method	LED program control						
Maximum vacuum degree	-0.1						
Interface diameter	Φ8						
Material	Quartz tube						
Inner diameter	Φ20 x 600	Φ42 x 600	Φ52 x 600	Φ42x 1000	Φ52x 1000	Φ72x 1000	Φ92x 21000
Overall dimensions	920 x 370 x 460			1320 x 430 x 520			