

Vertical Tube Furnace

Main Features

Vertical tube furnace is mainly used in metallurgy, glass, heat treatment, lithium battery positive and negative electrode materials. It is a certain atmosphere professional equipment to test material features in new energy, abrasive tools and other industries.

The advantage of vertical tube furnace?

- > Vertical tube furnace has a small footprint and can be used for rapid heating / quenching processes.
- > High temperature and high vacuum vertical tube furnace with crucible or heating materials suspended in the tube can be rotated under vacuum for uniform sintering, and the crucible can be manually lifted to easily replace the sample.
- > Mature technology, Simple furnace structure, Easy to operate, easy to control, and continuous production.

How to operate vertical tube furnace?

- > According to the requirements of the laboratory, intermittent manual way is used for loading and unloading samples.
- > When loading the material, place the material box on the material bowl support, open and take out the sealed end cover of the furnace tube, put it into the material box support with the material box, install the sealed end cover on the furnace tube flange and tighten the clamp bolt.
- > Then the process atmosphere is introduced until the oxygen content in the furnace tube reaches the process requirements and the temperature for sintering.
- > After the product sintering process is completed, a small amount of process atmosphere should be introduced and the temperature should be reduced until the furnace temperature is lower than the process requirements, and then the sealed end cover of the furnace tube can be opened to take out the heated product.



1200°C vertical three zones split tube furnace



1700°C vertical tube furnace



1400°C vertical tube furnace



1700°C three zone vertical split tube furnace

Technical Parameters

Model	Heating Zone length (mm)	Tube Size OD*L (mm)	Max Temp	Operate Temp	Voltage	Power	Heating Element	Temperature Accuracy
STGL-40-12	300mm	Φ40*1000mm	1200°C	1100°C	220 V	1.8 KW	HRE wire	±1°C
STGL-60-12	300mm	Φ60*1000mm	1200°C	1100°C	220 V	2.6KW	HRE wire	±1°C
STGL-80-12	300mm	Φ80*1000mm	1200°C	1100°C	220 V	2.6KW	HRE wire	±1°C
STGL-100-12	300mm	Φ100*1000mm	1200°C	1100°C	220 V	2.6KW	HRE wire	±1°C
STGL-40-14	300mm	Φ40*1000mm	1400°C	1300°C	220 V	2KW	SIC ROD	±1°C
STGL-60-14	300mm	Φ60*1000mm	1400°C	1300°C	220 V	3KW	SIC ROD	±1°C
STGL-80-14	300mm	Φ80*1000mm	1400°C	1300°C	220 V	4KW	SIC ROD	±1°C
STGL-100-14	300mm	Φ100*1000mm	1400°C	1300°C	220 V	5KW	SIC ROD	±1°C
STGL-40-17	300mm	Φ40*1000mm	1700°C	1600°C	220 V	3KW	MoSi2 Rod	±1°C
STGL-60-17	300mm	Φ60*1000mm	1700°C	1600°C	220 V	4KW	MoSi2 Rod	±1°C
STGL-80-17	300mm	Φ80*1000mm	1700°C	1600°C	220 V	5KW	MoSi2 Rod	±1°C