riton®

High vacuum metal tube furnace
RT-1000-200

Overview of High Vacuum Metal Tube Furnaces

This RT-1000-200 high vacuum metal tube furnace uses high quality silicon molybdenum rod as the heating element, adopts double shell structure and 31 stage program temperature control system, phase-shifting trigger and silicon controlled control. Double furnace structure is adopted. The materials used are selected from high purity alumina fibers, vacuum formed fiber polylight board material and 310 stainless steel tubes, and the vacuum system is integrated with the furnace body. The furnace has the advantages of balanced temperature field, low surface temperature, fast rising and falling temperature, energy saving and so on.

High Vacuum Metal Tube Furnaces Parameters

Project Model	Company	RT-1000-200
		Index value
Furnace body structure		Double shell structure
Rated power	KW	10
Rated voltage		220
Frequency	HZ	50
Phase number	mutually	Single-phase
Maximum temperature	°C	≤1000
Service temperature	°C	900
heating rate	°C/min	≤20°C/min
Heating area size	mm	Diameter 200 * 300 mm
Appearance size	mm	780 * 1000 * 1000mm (w * D * h)
Accuracy	°C	≤±1
Temperature control mode		PID control
The rmocouple model		K-type thermocouple
Heating element		Elema
Furnace material		304 Stainless steel
Weight	kg	90
Temperature rise of furnace surface	°C	≤55
Stove connection air switch model		Single phase 220 V

This series of high vacuum metal tube furnaces are all cuboid shapes. The shell of the furnace is made of cold-rolled plate by folding welding. The working chamber is constructed using 310 stainless steel tubes. The outer layer features a vacuum-formed alumina fiber furnace, with the heating elements placed inside the furnace chamber. The space between the furnace chamber and the furnace shell is filled with 1400-type fiberboard, creating a double-shell structure. The temperature control system is integrated into the furnace design.