



HORIZONTAL TUBE FURNACE

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Product Overview

Darsun Scientific Furnace tube furnaces use high-purity quartz or high-purity alumina tubes as furnace tubes, with an operating temperature range of 300°C to 1600 °C. Customers can choose according to their actual needs. This equipment series has the characteristics of safety and reliability, simple operation, high-temperature control accuracy, good heat preservation effect, high

Product Feature

1. Maximum temperature: 1200 °C (HRE resistance wire heating)
2. 1400 °C (silicon carbon rod heating)
3. 1600 °C (silicon molybdenum rod heating)
4. Intelligent 30-segment programmable automatic control
5. Furnace shell structure, double-layer air-cooling structure; surface temperature is lower than 50 °C
6. 304 stainless steel double-layer sealing flange
7. Adjustable flange support structures at both ends extend the service life of the furnace tube
8. Over-temperature protection function, automatically cuts off power when the temperature exceeds the allowed set value
9. Safety protection: automatic power off when the furnace body leaks electricity
10. Heating rate ≤ 20 °C / minute
11. Constant temperature accuracy ± 1 °C
12. Maximum vacuum degree-0.1MPa
13. Equipped with a molecular pump unit, the vacuum degree can reach 7×10^{-4} Pa

Standard Accessories

1. 4 tube plugs; 1 furnace tube; 1 vacuum pump;
2. set of vacuum sealing flange; 1 vacuum pressure gauge

Optional Accessories

- 1. Vacuum system (rotary vane mechanical pump, diffusion pump, molecular pump)
- 2. Atmosphere system (float flow meter, mass flow meter)
- 3. Quick release flange, tee flange
- 4. 7-inch high-definition touchscreen

Technical Parameters

Model	Tube Size	Power	Max. Temperature	Thermocouple	Tube Material	Heating Element
DS-12NT-40/300	40x300mm	3KW	1200°C	K type	Quartz tube	Molybdenum resistance wire
DS-12NT-60/300	60x300mm	3KW				
DS-12NT-80/300	80x300mm	5KW				
DS-12NT-100/300	100x300mm	5KW				
DS-12NT-120/300	120x300mm	6KW				
DS-12NT-40/450	40x450mm	3KW				
DS-12NT-60/450	60x450mm	3KW				
DS-12NT-40/300	40x300mm	3KW				
DS-12NT-60/300	60x300mm	3KW				
DS-12NT-80/300	80x300mm	5KW				

Model	Tube Size	Power	Max. Temperature	Thermocouple	Tube Material	Heating Element
DS-14ST-40/300	40x300mm	4KW	1400°C	S type	corundum tube	Silicon carbide rod
DS-14ST-60/300	60x300mm	4KW				
DS-14ST-80/300	80x300mm	4KW				
DS-14ST-100/300	100x300mm	6KW				
DS-14ST-120/300	120x300mm	6KW				
DS-14ST-40/450	40x450mm	4KW				
DS-14ST-60/450	60x450mm	4KW				
DS-14ST-80/450	80x450mm	4KW				
DS-14ST-100/450	100x450mm	6KW				
DS-14ST-120/450	120x450mm	6KW				

Model	Tube Size	Power	Max. Temperature	Thermocouple	Tube Material	Heating Element
DS-16MT-40/300	40x300mm	4KW	1600°C	Type B	corundum tube	Silicon molybdenum rod
DS-16MT-60/300	60x300mm	4KW				
DS-16MT-80/300	80x300mm	4KW				
DS-16MT-100/300	100x300mm	6KW				
DS-16MT-120/300	120x300mm	6KW				
DS-16MT-40/450	40x450mm	5KW				
DS-16MT-60/450	60x450mm	5KW				
DS-16MT-80/450	80x450mm	5KW				
DS-16MT-100/450	100x450mm	7KW				
DS-16MT-120/450	120x450mm	7KW				