

Horizontal Tube Furnace

Furnace Chamber: High Purity Quartz Tube/High Purity Alumina Tube

Heating Element: Resistance wire, Silicon Carbon Rod (SiC), Silicon Molybdenum Rod (SiMo)

Max Temperature: 1200°C/1400°C/1600°C

Vacuum Level: High Vacuum, Low Vacuum, None.

Temperature Accuracy: $\pm 1^{\circ}\text{C}$

Available Atmosphere: Inert atmosphere (N₂, CO₂, Ar₂, etc.)

Application Industry: Metal processing industry, semiconductor industry, ceramic industry, glass industry, chemical industry, aerospace and automotive industry, medical device manufacturing, etc.

Features of Horizontal Tube Furnace

- Maximum temperature: 1200 °C (HRE resistance wire heating)
- 1400 °C (silicon carbon rod heating)
- 1600 °C (silicon molybdenum rod heating)
- Intelligent 30-Segment Programmable Automatic Control
- Furnace shell structure, double-layer air-cooling structure; surface temperature is lower than 50 °C
- 304 stainless steel double-layer sealing flange
- Adjustable flange support structures at both ends extend the service life of the furnace tube
- Over-temp. protection function, automatically cuts off power when the temp. exceeds the allowed set value
- Safety protection: automatic power off when the furnace body leaks electricity
- Heating rate $\leq 20^{\circ}\text{C} / \text{minute}$
- Constant temperature accuracy $\pm 1^{\circ}\text{C}$
- Maximum vacuum degree -0.1MPa
- Equipped with a molecular pump unit, the vacuum degree can reach $7 \times 10^{-4} \text{ Pa}$

Standard Accessories

- 4 Tube Plugs; 1 Furnace Tube; 1 Rotary Vane Vacuum Pump;
- 2-set of Vacuum Sealing Flange; 1 Vacuum Pressure Gauge

Optional Accessories

- Vacuum system (diffusion pump/molecular pump)
- Atmosphere system (float flow meter, mass flow meter)
- Quick release flange, three-way flange
- 7-inch high-definition touchscreen



FSF-12NT-40/300

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Technical Specifications:

1200°C Series

Model	Furnace Tube Diameter x Heating Zone Length	Power	Maximum Operating Temperature	Thermocouple	Furnace tube material	Heating element
FSF-12NT-40/300	40x300mm	3KW	1200°C	K type	Quartz Tube	Silicon Molybdenum Resistance Wire (SiMo) / Silicon Carbon Rod (SiC)
FSF-12NT-60/300	60x300mm	3KW				
FSF-12NT-80/300	80x300mm	5KW				
FSF-12NT-100/300	100x300mm	5KW				
FSF-12NT-120/300	120x300mm	6KW				
FSF-12NT-40/450	40x450mm	3KW				
FSF-12NT-60/450	60x450mm	3KW				
FSF-12NT-80/450	80x450mm	5KW				
FSF-12NT-100/450	100x450mm	5KW				
FSF-12NT-120/450	120x450mm	6KW				