

# **PR322 Series High Temperature Thermocouple Calibration Furnace**

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**PANRAN**

PANRAN instruments are available in South Africa from Intercal (Pty) Ltd

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The PR322 series high-temperature thermocouple calibration furnaces operate in the temperature range of 800°C~1600°C. They are mainly used as temperature sources for calibrating secondary standard Type B thermocouples and various working Type B thermocouples. Their temperature field indicators meet the requirements of the current JJF 1184-2024 Testing Specification for Temperature Uniformity in Thermocouple Calibration Furnaces.

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The PR322A high-temperature thermocouple calibration furnace is used in conjunction with the PR354 series high-temperature furnace control cabinet. The control cabinet features high-precision temperature measurement, a dedicated intelligent constant temperature algorithm, and multiple protection functions (including power-on slow start, upper limit restrictions on heating power and heating current, self-locking tripping of the main heating circuit, freewheeling protection, etc.). It has excellent power supply voltage adaptability, eliminating the need for an additional high-power AC regulated power supply for the high-temperature furnace. It can be used with the ZRJ series calibration software to realize functions such as remote start/stop, real-time recording, and parameter query and setting.

### Technical Parameters

Item	PR322A	PR322C	Remark
Working Temperature Range	800°C~1500°C	800°C~1600°C	/
Heating Material	Silicon Molybdenum Rod		/
Power Supply	220VAC		No need for a stabilized power supply
Maximum Current of Furnace Body	65A	70A	Low-voltage side of the control cabinet
Maximum Heating Power	3kW	3.5kW	/
Furnace Cavity Dimension	φ25mm×600mm	φ25mm×750mm	/
External Dimensions	620mm×330mm×460mm(Furnace) 910mm×550mm×500mm(Cabinet)	1020mm×720mm×1560mm	/
Weight	45kg(Furnace) 82kg(Cabinet)	200kg	/
Axial Temperature Field	The highest temperature point inside the furnace deviates from the geometric center of the furnace ≤ 20mm, and within ±20mm of the highest temperature point, there is a uniform temperature field with a temperature change gradient ≤0.5°C/10mm.		/
Control Cabinet Model	PR354C	/	/
Constant Temperature Capability	≤0.1°C/min ≤0.5°C/6min		/