

Specifications: High-Temperature Inert Gas Oven INH

Model	INH-9N1		INH-21CD		INH-51N2		INH-100N2	
System	Forced circulation (side flow)							
Operation temperature (*1)	RT +60 to 600°C							
Temperature profile accuracy (*2)	±8°C (at 600°C), ±5°C (at 350°C)							
Guaranteed O ₂ density	20 ppm or less							
Time to reach max. temperature (RT +60 to 592°C(600-8°C)) (*1)	120 minutes or less		90 minutes or less					
Time to reach 20 ppm	50 minutes or less (N ₂ injection 50 L/min)		60 minutes or less (N ₂ injection 90 L/min)		90 minutes or less (N ₂ injection 250 L/min)			
Temperature control	Programmer				Touch panel installed on program controller			
Reading accuracy	Less than 500°C: ±0.5°C				±0.3% FS±1 digit			
	500°C or higher: ±(0.1% of displayed value)				Sampling frequency: 500 ms			
Memory capacity	Total 1024 segments (max. 99 patterns)				30 segments/program			
Control operation	PID control with auto tuning							
Cooling mechanism	External forced cooling mechanism							
Heater output	7.5 kW (at 200 V)		12.0 kW (at 200 V)		25.3 kW (at 200 V)		44.3 kW (at 200 V)	
Internal pressure gauge	0 to 2 kPa							
Thermocouple	K							
External dimensions	W1105 × H1650 × D840 mm		W1255 × H1800 × D1120 mm		W1606 × H1991 × D1299 mm		W1806 × H2208 × D1500 mm	
Inner dimensions	W450 × H450 × D450 mm		W600 × H600 × D600 mm		W800 × H800 × D800 mm		W1000 × H1000 × D1000 mm	
Breaker capacity	AC 200 V, 40 A 3-phase, 50/60 Hz		AC 200 V, 50 A 3-phase, 50/60 Hz		AC 200 V, 100 A 3-phase, 50/60 Hz		AC 200 V, 175 A 3-phase, 50/60 Hz	
Shelf withstand load (uniformly distributed load)	15 kg/shelf							
Safety equipment	Leakage breaker, overheat prevention gauge, motor overload protector, control circuit protector							
Accessories	2 shelves (shelf holder), temperature recorder				2 shelves (shelf holder), temperature recorder function (built into control system)		Temperature recorder function (built into control system)	
Applications	Annealing of electronic components, annealing of mounted substrates, debinding of MLCC and LTCC (*3), debinding of inductors (*3), degreasing of ceramics (*3), annealing of glass substrates, others							

(*1) Indicates the value at control points inside the heating chamber.

(*2) Effective dimensions INH-9, INH-21: 2/3 of internal dimensions; INH-51, INH-100: 4/5 of internal dimensions

(*3) Separate safety equipment is required. The external dimensions of the furnace are different. Please contact us from link to Inquiries page.

☆ A coolant is required to protect the seal packing.

☆ The thermocouple is a consumable part.