

Specifications: High-Temperature Clean Oven CLH

Model	CLH-21CD(Ⅲ)		CLH-21CDH(Ⅲ)	CLH-21CD(V)	CLH-35CD(Ⅲ)	CLH-35CDH(Ⅲ)
System	Forced circulation (side flow)			Front blower-type forced circulation	Forced circulation (side flow)	
Operation temperature (*1)	RT + 70 to 450°C		RT + 70 to 530°C	RT + 70 to 500°C	RT + 70 to 450°C	RT + 70 to 530°C
Temperature profile accuracy (*2)	±5°C (at 450°C)		±8°C (at 530°C)	±5°C (at 500°C)	±5°C (at 450°C)	±8°C (at 530°C)
Time to reach max. temperature (*1)	80 minutes or less (RT + 70 to 445°C(450-5°C))		90 minutes or less (RT + 70 to 522°C(530-8°C))	80 minutes or less (RT + 70 to 495°C(500-5°C))	70 minutes or less (RT + 70 to 445°C(450-5°C))	100 minutes or less (RT + 70 to 522°C(530-8°C))
Cooling time (reference value)	90 minutes or less (450 to 100°C)		100 minutes or less (530 to 100°C)	90 minutes or less (500 to 100°C)	100 minutes or less (450 to 100°C)	120 minutes or less (530 to 100°C)
Cleanliness	Class 100 (when temperature is stable)					
Filter	Heat-resistant, high-performance filter					
Guaranteed O ₂ density	20 ppm or less					
Time to reach 20 ppm	45 minutes or less (N ₂ injection 250 L/min)				50 minutes or less (N ₂ injection 250 L/min)	
Temperature control	Programmer					
Reading accuracy	Less than 500°C: ±0.5°C 500°C or higher: ±(0.1% of displayed value)					
Memory capacity	Total 1024 segments (max. 99 patterns)					
Control operation	PID control with auto tuning					
Heater output	33.6 kW (at 200 V)			21 kW (at 200 V)	48.3 kW (at 200 V)	
Temperature recorder	Single pen recorder (control point record, thermocouple K)					
Thermocouple	K					
External dimensions	W1285 × H2020 × D1605 mm			W1180 × H2110 × D1670 mm	W1285 × H2090 × D1775 mm	
Inner dimensions	W670 × H700 × D500 mm			W700 × H700 × D500 mm (*3)	W670 × H790 × D670 mm	
Shelf withstand load (uniformly distributed load)	15 kg/shelf					
Equipment weight	Approx. 1050 kg			Approx. 1100 kg	Approx. 1250 kg	
Internal pressure gauge	0 to 2 kPa					
Clean meter	0 to 1 kPa					
Exhaust port size	1B, ball valve stopper					
Breaker capacity	AC 200 V, 125 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	
Safety equipment	Leakage breaker, overheat prevention gauge, motor overload protector, control circuit protector, low coolant flow rate detector					
Accessories	2 shelves (shelf holder)					
Applications	Baking and curing for semiconductor wafers and glass substrates					

(*1) Heater temperature rise capability, value at control points inside the heating chamber.

(*2) Effective dimensions are 2/3 of the inner dimensions.

(*3) Inner width is 700 mm, however the opening size is 630 mm.