

Clean Ovens | Dust-Free Environment Heating, Economical

DEC812C/912C

- Forced Convection
- Automatic Overheating Preventer
- Overheating Preventer
- Self-diagnostic Function
- Key Lock Function
- Power Failure Compensation Function
- Overcurrent Leakage Circuit Breaker

Operating temp. range RT+10~150°C Cleanliness Class 100 Internal capacity 236L 535L

Economical clean constant temperature oven with a maximum temperature of 150°C and cleanliness level 100.



Features

Suitable for drying or thermal treatment of semiconductors, LCDs, electronic products, precision instruments, etc., in a dust-free environment.

- Using a high-temperature resistant HEPA filter, achieving high-performance temperature control through horizontal circulation, maintaining cleanliness level 100 during constant temperature.
- A sensor is installed on the inner side of the HEPA filter to control the temperature in proximity to the item.
- Equipped with self-diagnostic circuit (temperature sensor anomaly, heater disconnection protection, automatic overheating preventer, SSR short-circuit protection), overheating preventer, overcurrent leakage protection, key lock and other safety functions.

Specifications

Model		DEC812C	DEC912C	
System		Forced convection		
Performance	Operating temp. range	Room temp. +10~150°C		
	GB standard	Temp. fluctuation	±0.5°C (at 150°C)	
		Temp. uniformity	±3.0% (at 150°C)	
	JTM standard	Temp. adjusting accuracy	±0.5°C (at 150°C)	
		Temp. distribution accuracy	±3.0°C (at 150°C)	
	Max. temp. reaching time	Approx. 50min		
Cleanliness	Cleanliness maintained at level 100 during constant temperature			
Composition	Interior material	Stainless steel plate		
	Exterior material	Cold rolled steel plate with chemical proofing coating		
	Insulating material	Centrifugal glass wool		
	Heater	Stainless steel heating pipe		
		2.4kW	3.2kW	
	Fan blade/motor	Centrifugal fan, 30W x 2	Centrifugal fan, 30W x 4	
	Cable port	Internal diameter: 16mm, located on the right		
	Exhaust vent	Inner diameter: 38mm (manual), located on the top		
HEPA filter	Dust collection efficiency: 99.97% for 0.3µm particles			
Controllers	Temp. control method	3-stage PID		
	Temp. setting method	Digital setting through special function menu keys and ▲/▼ keys		
	Temp. display method	Achieved temp. display: Green 4-digit LED digital display		
		Setting temp. display: Red 4-digit LED digital display		
	Timer	1 min~99 h 59 min and 100~999 h 50 min (including timer waiting function)		
	Operation functions	Fixed temp. operation, auto start, quick auto stop, auto stop, program operation		
	Program mode	Programmable controller with 3 modes (30 segments×1, 15 segments×2, 10 segments×3)		
	Additional functions	Deviation correction, key lock, power failure compensation		
Sensors	K thermocouple (temp. controller and overheating protector)			
Safety device		Self-diagnostic circuit (temperature sensor anomaly, heater disconnection protection, automatic overheating preventer, SSR short-circuit), overheating preventer, overcurrent leakage protection, key lock functions		
Specifications	Internal dimensions (W×D×H mm)	500×450×1050	1070×500×1000	
	External dimensions (W×D×H mm)	710×720×1600	1170×720×1600	
	Internal capacity	236L	535L	
	Shelf load	30kg/layer		
	Shelf layers/shelf support spacing	29 layers/30mm	2×29 layers/30mm	
	Power supply (50/60Hz) rated current	AC220V 12A	AC220V 16A	
	Weight	Approx. 110kg	Approx. 190kg	
Accessories	Shelf	Stainless punching mesh plate 4 pcs	8 pcs	
	Supports	8 pcs	16 pcs	
Options		Shelf plate (1 shelf plate with 2 shelf supports), cable port (30/50mm), micro printer, data logger, combined warning light (standby/operation/fault), viewing window, external communication function (RS485), temperature output terminal (4~20mA), external alarm output terminal, timer output terminal, central monitoring software, touchscreen controller		

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