

Clean Ovens | Dust-free, Standard

DE430C/430UC/630C/630UC · DT430C/430UC/630C/630UC

Operating temp. range	DE: RT+30~260°C	DT: RT+30~360°C	Cleanliness	Class 100	Internal capacity	91L	216L
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Precision clean constant temperature oven with cleanliness level 100.



■ Features

This product suppresses particle generation and is suitable for constant temperature control in environments that require cleanliness, such as semiconductors, LCDs, electronic products, and precision instruments.

- Featuring a high-temperature resistant HEPA filter, achieving high-performance temperature control through horizontal circulation. The C-type maintains cleanliness level 100 during constant temperature while the UC-type maintains cleanliness level 100 throughout heating, constant temperature, and cooling.
- A sensor is installed on the inner side of the HEPA filter to control the temperature in proximity to the item.
- Designed for easy placement and retrieval of items. Prevent dust from entering the chamber during door opening and closing.
- Flow setting and introduction through N₂ flow meter.
- 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		DE430C/430UC	DE630C/630UC	DT430C/430UC	DT630C/630UC	
System		Forced convection				
Performance	Operating temp. range	Room temp. +30~260°C		Room temp. +30~360°C		
	GB standard	Temp. fluctuation	±0.3°C (at 260°C)		±0.3°C (at 360°C)	
		Temp. uniformity	±1.5% (at 260°C)		±1.5% (at 360°C)	
	JTM standard	Temp. adjusting accuracy	±0.3°C (at 260°C)		±0.3°C (at 360°C)	
		Temp. distribution accuracy	±2.5°C (at 260°C)		±4°C (at 360°C)	
	Max. temp. reaching time	Approx. 70 min	Approx. 70 min (to 260°C)		Approx. 80 min	
Cleanliness		C: cleanliness level 100 during constant temperature UC: cleanliness level 100 throughout heating, constant temperature, and cooling				
Composition	Interior material	Stainless steel plate				
	Exterior material	Cold rolled steel plate with chemical proofing coating				
	Insulating material	Glass fiber		Aluminosilicate cotton		
	Heater	Stainless steel heating pipe				
		2.5KW	3.6KW		5.2KW	
	Fan blade/motor	Centrifugal fan, high-temperature self-cooling motor 370W				
	Differential pressure gauges	Analog type 0~500Pa				
	Cable port	Internal diameter: 30mm×1, located on the right				
	Additional mechanism	Exhaust vent (manual) outer diameter: 61mm				
	HEPA filter	Dust collection efficiency: 99.97% for 0.3µm particles				
N ₂ inlet interface	Outer diameter: 8mm tapered joint					
Controllers	Temp. control method	3-stage PID				
	Temp. setting method	Digital setting through special function menu keys and up/down 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, auto stop, program operation				
	Program mode	Program operation 6 modes with a total of 90 segments (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)	450×450×450	600×600×600	450×450×450	600×600×600	
	External dimensions (W×D×H mm)	700×1000×1738	850×1150×1738	700×1000×1738	850×1150×1738	
	Internal capacity	91L	216L	91L	216L	
	Shelf load	30kg/layer				
	Shelf layers/shelf support spacing	12 layers/30mm	17 layers/30mm	12 layers/30mm	17 layers/30mm	
	Power supply (50/60Hz) rated current	3-phase AC380V 5A		3-phase AC380V 6.5A		
	Weight	Approx. 220kg	Approx. 270kg	Approx. 220kg	Approx. 270kg	
Accessories	Shelf	Stainless steel wire mesh plate				
	2 pcs	3 pcs		2 pcs		
	Supports	4 pcs		6 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				

1 Sterilizers

2 Granulation and Spray Dryers

3 Muffle Furnaces

4 Ovens

5 Incubators

6 Plasma Equipment

7 Water Purifiers

8 Baths

9 Water Circulators

10 Rotary Evaporators

11 Freeze Dryers & Cold Traps

12 Stirrers & Shakers

13 Washers

14 Analysis and Test Devices

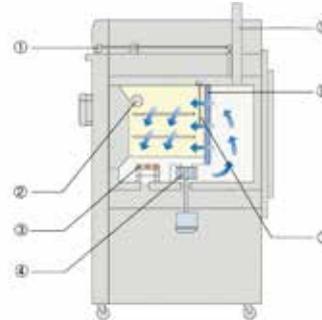
15 Options

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

Internal chamber



Structural diagram

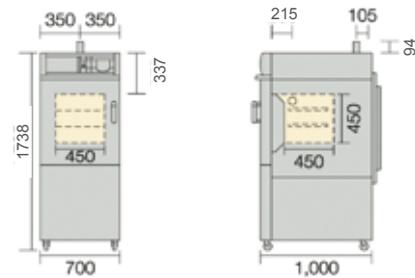


- ① Manual or automatic (optional) exhaust vent
- ② Cable port ③ Heater ④ Centrifugal fan ⑤ Exhaust vent
- ⑥ Aging judgment via HEPA filter differential pressure meter
- ⑦ Sensor (temperature control at a position close to the sample)

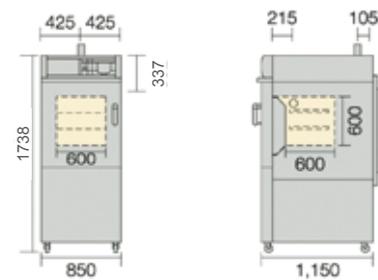
Control panel



Dimension diagram (mm)



[DE430C, DT430C, DE430UC, DT430UC]



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Sterilizers	1
Granulation and Spray Dryers	2
Muffle Furnaces	3
Ovens	4
Incubators	5
Plasma Equipment	6
Water Purifiers	7
Baths	8
Water Circulators	9
Rotary Evaporators	10
Freeze Dryers & Cold Traps	11
Stirrers & Shakers	12
Washers	13
Analysis and Test Devices	14
Options	15