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Clean Ovens | Dust-free, Standard

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

Operating temp. range	DE: RT+30~260℃	DT: RT+30~360℃

Cleanliness	Class 100

Internal capacity	91L	216L

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 N_2 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

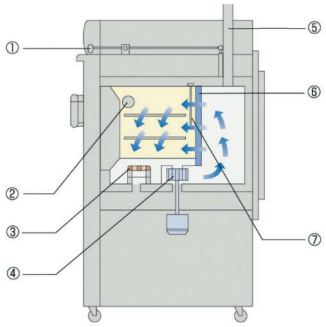
Model			DE430C/430UC	DE630C/630UC	DT430C/430UC	DT630C/630UC
System			Forced convection			
Performance	Operating temp. range		Room temp. +30~260℃		Room temp. +30~360℃	
	GB standard	Temp. fluctuation	±0.3℃ (260℃)		±0.3℃ (360℃)	
		Temp. uniformity	±1.5% (260℃)		±1.5% (360℃)	
	JTM standard	Temp. adjusting accuracy	±0.3℃ (at 260℃)		±0.3℃ (at 360℃)	
		Temp. distribution accuracy	±2.5℃ (at 260℃)		±4℃ (at 360℃)	
	Max. temp. reaching time		Approx. 70 min	Approx. 70 min (to 260℃)	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 interval		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		3-phase AC380V 9A
	Weight		Approx. 220kg	Approx. 270kg	Approx. 220kg	Approx. 270kg
Accessories	Shelf		Stainless steel wire mesh plate			
			2 pcs	3 pcs	2 pcs	3 pcs
	Supports		4 pcs	6 pcs	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			

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

Internal chamber

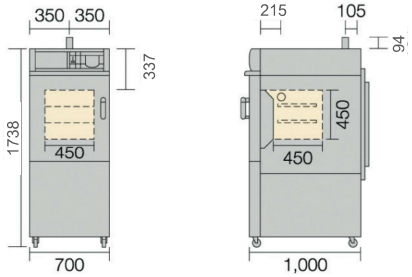
Control panel

Structural diagram

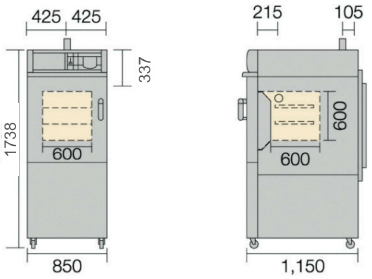


① Manual or automatic (optional) exhaust vent
② Cable port ③ Heater ④ Centrifugal fan ⑤ Exhaust vent
⑥ Aging judgment via HEPA filter differential pressure meter
⑦ Sensor (temperature control at a position close to the sample)

Dimension diagram (mm)



[DE430C, DT430C, DE430UC, DT430UC]



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