

Inert&Clean Oven Clean class 100, O₂ concentration 20ppm

DTN430C/630C/450C/650C

- Forced convection circulation
- Auto overheat prevention
- Overheat protector
- Self-diagnosis function
- Overcurrent electric leakage breaker

Max. working temp	DTN430C/630C: 360°C	DTN450C/650C: 500°C	Clean Class	100	O ₂ concentration	20ppm	Internal Capacity	91L	216L
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Atmosphere furnace of clean class 100 and O₂ concentration lower than 20ppm, mainly applied to cure wafer of semiconductor, etc.



Features

- The max. working temp. is 360°C and 500°C, clean class 100, O₂ concentration is lower than 20ppm, mainly applied to cure wafer of semiconductor (photoresist PI, PBO curing), glass substrate baking, high-precision anneal, etc.
- Use heatproof HEPA, keep the clean class 100 in chamber, able to conduct high temp. baking in clean environment.
- Pressure tank structure of high gas tightness, O₂ concentration reaching time is shorter and N₂ consumption is very low.
- Use magnetic seal to keep high gas tightness, and use water-cooling mechanism to protect seal components not to be influenced by heat.
- Be able to make temp. rise / fall quickly, and the rise/fall rate is adjustable.
- The standard configuration contains waste liquid recovery device, cooling and recycling the gas.
- LCD touch screen operation with auto/manual mode.

Safety

- Safety devices includes door detector switch, overheat protector, O₂ concentration error, N₂ pressure detection, N₂ flow detection, cooling water flow detection, water leakage sensor, overcurrent ELB, etc..

规格

Model	DTN430C	DTN630C	DTN450C	DTN650C		
System	N ₂ replace + Forced convection circulation					
Performance	Operating temp. range	RT +50 ~ 360°C		RT +50 ~ 500°C		
	Temp. control accuracy	±0.5°C (at360°C)		±1.0°C (at500°C)		
	Temp. distribution accuracy	±5.0°C (at360°C)		±8.0°C (at500°C)		
	Max. temp. reaching time	Approx. 80min		Approx. 110 min		
	O ₂ concentration	Below 20ppm				
	O ₂ concentration reaching time	≤ 20 min (250L/min N ₂)	≤ 25 min (250L/min N ₂)	≤ 20 min (250L/min N ₂)	≤ 25 min (250L/min N ₂)	
	Clean class	Class 100 at constant temp.				
Structure	Interior	Stainless steel plate				
	Exterior	Cold rolled steel plate with chemical proofing coating				
	Insulating material	Aluminum silicate wool				
	Heater	Stainless steel heating pipe		Alloy heating wire		
	Heating power	Main heater	6.75KW	9KW	9.5KW	14.2KW
		N ₂ preheat	1KW			
Cooling mechanism	Stainless steel cooling water heat exchanger					
HEPA filter	Dust collection efficiency: 0.3um particle more than 99.97%					
Controller	Temp. control	PID control				
	Temp. controller	LCD touch screen +PLC				
	Operation function	Manual fixed temp. operation, auto program operation				
	Program mode	9 program operations, 9 steps for each program (extensible)				
	Additional function	User level authentication				
	Heater circuit control	SSR driving				
Sensor	K thermocouple (temp. controller and overheat protector)					
Safety Device	Door detector switch, overheat protector, O ₂ concentration error, N ₂ preheat overheat, low water pressure detection, low N ₂ pressure detection, cooling water flow detection, N ₂ flow detection, fan overload detection, overcurrent ELB, etc..					
Spec.	Internal dimensions (W×D×Hmm)	450×450×450	660×500×660	450×450×450	660×500×660	
	External dimensions (W×D×Hmm)	1090×950×1540	1300×1000×1750	1240×1010×1750	1450×1060×1960	
	Internal capacity	91L	216L	91L	216 L	
	Shelf plate steps/Shelf rest pitch	12 steps /30mm	19 steps /30mm	12 steps /30mm	19 steps /30mm	
	Exhaust port	40KF flange				
	N ₂ inlet	Rc1/2				
	Cooling water inlet	Rc3/4				
	Hot water outlet	Rc3/4, 2				
	Power supply (50/60Hz) rated current	3 phase AC380V 16A	3 phase AC380V 19A	3 phase AC380V 20A	3 phase AC380V 27A	
	Weight	Approx. 900kg	Approx. 1100kg	Approx. 900kg	Approx. 1100kg	
Options	Shelf plate, vacuum pump, temp. recorder, indicator lamp (stand-by/running/malfunction), Ethernet communication					