

Natural Convection Ovens | Standard, Program Operation

DVS403C/413C/603C/613C

Operating temp. range RT+5~260°C

Temp. distribution accuracy ±5°C (at 260°C)

Internal capacity 99L 162L

The natural convection drying oven with program control function allows for quick program settings.



Features

- Easy operation, available for fixed temp., program, quick auto stop, auto stop and auto start operations.
- Digital setting through special function menu keys and ▲/▼ keys. 6 modes with 90 segments program controller.
- Deviation correction and key locking through submenu keys.

Safety

- Self-diagnostic circuit (temperature sensor anomaly, heater disconnection protection, automatic overheating prevention, SSR short-circuit protection), independent overheating prevention, overcurrent leakage protection, key lock safety and other safety functions.

Specifications

Model		DVS403C	DVS413C	DVS603C	DVS613C
System		Natural convection			
Performance	Operating temp. range	Room temp. +5~260°C			
	GB standard	Temp. fluctuation	±1°C (at 260°C)		
		Temp. uniformity	±3% (at 260°C)		
	JTM standard	Temp. adjusting accuracy	±1°C (at 260°C)		
		Temp. distribution accuracy	±5°C (at 260°C)		
Max. temp. reaching time		Approx. 75 min (room temperature +5~260°C)			
Composition	Interior material	Stainless steel plate			
	Exterior material	Cold rolled steel plate with chemical proofing coating			
	Insulating material	Rock wool + centrifugal glass wool			
	Heater	Stainless steel heating pipe 1.2kW		1.36kW	
	Viewing window (width×height mm)	250×280			
	Cable port	Inner diameter: 33mm×1, located on the right			
	Exhaust vent	I.D. 33mm×2, located on the top			
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, program operation, quick auto stop operation, auto stop operation, auto start 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	Temperature controller: K-type thermocouple; Overheating protection: Liquid expansion temperature controller				
Safety device		Self-diagnostic circuit (temperature sensor anomaly, heater disconnection protection, automatic overheating preventer, SSR short-circuit), independent overheating preventer, overcurrent leakage protection, and key lock functions			
Specifications	Internal dimensions (W×D×H mm)	450×490×450		600×540×500	
	External dimensions (W×D×H mm)	560×601×827		710×651×877	
	Internal capacity	99L		162L	
	Shelf load	15kg/layer			
	Shelf layers	11 layers		13 layers	
	Support spacing	30mm			
	Power supply (50/60Hz) rated current	AC115V 10.5A	AC220V 5.5A	AC115V 12A	AC220V 6.5A
Weight	Approx. 57kg		Approx. 72kg		
Accessories	Shelf	Stainless punching mesh plate 2 pieces, 1 of which is fixed to the chamber; do not disassemble			
	Supports	2 pcs			
	Stand	ON61C			
Options	Stacking fittings	OD40C		OD60C	
	Others	Shelf (1 shelf with 2 supports), cable port (30/50mm), micro printer, data logger, combination warning light (standby/running/fault), external communication function (RS485), temperature output terminal (4~20mA), external alarm output terminal, time-up output terminal, centralized monitoring software			

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

Internal chamber (DVS403C/413C)



- Use high-temperature resistant silicone rubber sealing strips. Enhance sealing, ensuring stable performance.
- The internal stainless-steel construction offers strong corrosion resistance and is easy to clean.
- The shelf is made of perforated metal plate, significantly improving strength.

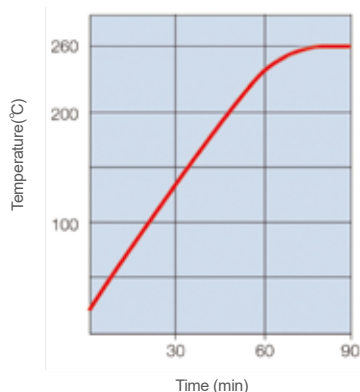
Control panel



Cable port (standard configuration)



Temperature rise curve



Exhaust vent (standard configuration)



Shelf (support)



Dimension diagram (mm)

