

Natural Convection Ovens | Standard, Program Operation

DVS413C/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 up/down 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		DVS413C	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°C~260°C)	
Composition	Interior material	Stainless steel plate	
	Exterior material	Cold rolled steel plate with chemical proofing coating	
	Insulating material	Glass fiber+rock wool	
	Heater	Stainless steel heating pipe 1.2KW	1.36KW
	Viewing window (width×height mm)	250×280	
	Cable port	Inner diameter: 30mm×1, located on the right	
	Exhaust vent	I.D. 30mm×2, located on the top	
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, program operation, auto stop operation, auto start of fixed temp. operation, auto start of program operation, quick auto stop 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	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	AC220V 5.5A	AC220V 6.5A
Weight	Approx. 48kg	Approx. 63kg	
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	

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

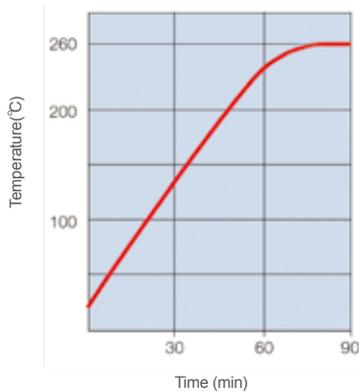
- Natural Convection
- Automatic Overheating Preventer
- Overheating Preventer
- Self-diagnostic Function
- Key Lock Function
- Power Failure Compensation Function
- Overcurrent Leakage Circuit Breaker
- CE Certification

Internal chamber (DVS413C)



- 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.

Temperature rise curve



Control panel



Cable port (standard configuration)



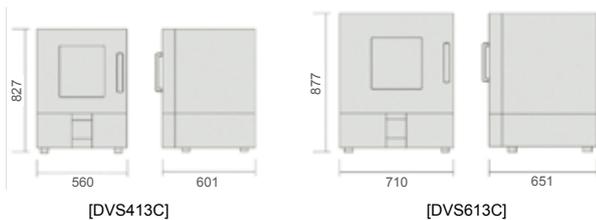
Exhaust vent (standard configuration)



Shelf (support)



Dimension diagram (mm)



Sterilizers	1
Granulation and Spray Dryers	2
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Ovens	4
Incubators	5
Plasma Equipment	6
Water Purifiers	7
Baths	8
Water Circulators	9
Rotary Evaporators	10
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