

Natural Convection Ovens | High-Function, Touch Panel

DVT410C/610C

Operating temp. range RT+10~300°C

Temp. uniformity ±3% (at 300°C)

Internal capacity 117L 188L

High-end drying oven with programmable control functions allows for quick program settings.

Features

- 7-inch touch screen for easy operation with three operation modes, including fixed temp. operation, program operation, timing operation. Standard 3-level authorization login.
- 100 programs, each program maximum 30 segments. Standard data storage function, data storage capacity approximately 10 years.
- Temperature rise curve tracking function, program operation mode, able to visually display set temperature and achieved temperature curve, providing reference for users to set reasonable temperature rise curve.
- Automatically stops heating upon door opening to protect user samples.

Safety

- Self-diagnostic circuit (temperature sensor anomaly, heater disconnection protection, automatic overheating preventer, SSR short-circuit protection), overheating preventer, overcurrent leakage protection, and a three-level authorization management system, automatically stops heating upon door opening.



Specifications

Model		DVT410C	DVT610C	
System		Natural convection		
Performance	Operating temp. range	Room temp. +10~300°C		
	GB standard	Temp. fluctuation	±1°C (at 300°C)	
		Temp. uniformity	±3% (at 300°C)	
Max. temp. reaching time		≤120 min		
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		
		1.6kW   1.3kW x 2		
	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	7-inch color touch screen		
	Temp. display method	7-inch color touch screen		
	Timer	1 min~99 h 59 min		
	Operation functions	Fixed temp. operation, program operation, timing operation		
	Program mode	100 Programs with 30 segments each		
	Additional functions	Temperature history curve, alarm history records, operation log, data export function, language switching (Chinese, Japanese, English), calibration function, power failure compensation function, screen brightness adjustment, three-level authorization function		
	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 automatically stops heating upon door opening		
Specifications	Internal dimensions	450×520×500	600×570×550	
	External dimensions (W×D×H mm)	610×690×960	760×740×1010	
	Internal capacity	117L	188L	
	Shelf load	30kg/layer		
	Shelf layers	12 layers	14 layers	
	Support spacing	30mm		
	Power supply (50Hz) rated current	AC220V 7.5A	AC220V 12A	
	Weight	Approx. 78kg	Approx. 93kg	
Accessories	Shelf	Stainless steel wire shelf 2 pcs		
	Supports	4 pcs		
Options	Stand	ONK60C		
	Stacking fittings	ODK40C	-	
	Others	Shelf (1 shelf with 2 supports) cable port (30/50mm), micro printer, data logger, combination warning light (standby/running/fault), remote monitoring function (network port), temperature output terminal (4~20mA), external alarm output terminal, time-up output terminal		

Sterilizers	1
Granulation and Spray Dryers	2
Furnaces	3
Ovens	4
Incubators	5
Plasma Equipment	6
Water Purifiers	7
Baths	8
Water Circulators	9
Rotary Evaporators	10
Stirrers & Shakers	11
Options	12

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

### Internal chamber (DVT610C)



- 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.
- Shelf plates are made of stainless-steel wire mesh, highly increasing strength.

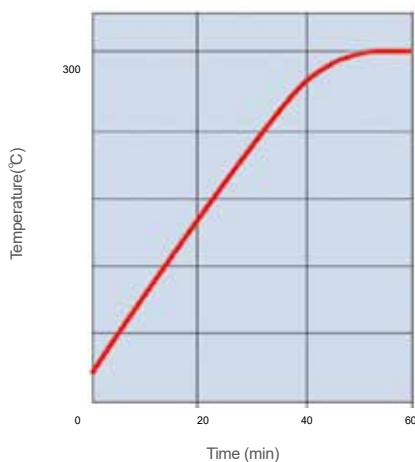
### Control panel



### Cable port (standard configuration)



### Temperature rise curve



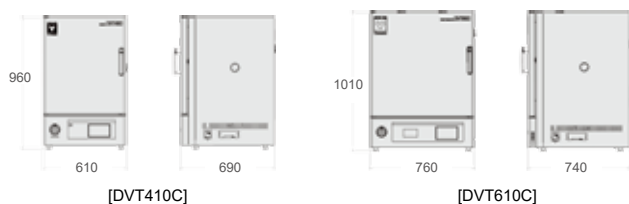
### Exhaust vent (standard configuration)



### Shelf (support)



### Dimension diagram (mm)



- 1 Sterilizers
- 2 Granulation and Spray Dryers
- 3 Furnaces
- 4 Ovens
- 5 Incubators
- 6 Plasma Equipment
- 7 Water Purifiers
- 8 Baths
- 9 Water Circulators
- 10 Rotary Evaporators
- 11 Stirrers & Shakers
- 12 Options