

Low-temp. Incubators | Program Operations

IN613C/613CW/813C/913C

Operating temp. range -10~60°C

Temp. fluctuation ±0.5°C

Temp. uniformity ≤2.0°C (at 37°C)

Internal capacity 143L 286L 624L

Widely applicable for various constant temperature tests and environmental experiments.

Features

- Widely applicable for various constant temperature tests and environmental tests.
- Achieved high precision temperature control and balanced internal chamber temperature distribution through forced circulation by a fan blade.
- The outer door uses a large hollow glass and thickened tempered glass viewing window structure design, better observation of the interior while improving insulation. (IN613CW type)
- The inner glass door enhances the insulation effect. Observing the sample through the inner glass door minimizes temperature changes.
- Defrosting can be set to cycle defrost based on the continuous operation time of the compressor.
- After power outage recovery, the operation can automatically restart under set temperature conditions through the power outage compensation function.
- Equipped with safety functions such as compressor overload relay, overheat prevention device, overcurrent leakage protection switch, self-diagnostic circuit (temperature sensor anomaly, heater disconnection, SSR short circuit, automatic overheat prevention), and buzzer alarm during anomalies.



Specifications

Model		IN613C	IN613CW	IN813C	IN913C	
System		Forced convection				
Performance	Operating temp. range	-10~60°C				
	GB standard	Temp. fluctuation	±0.5°C			
		Temp. uniformity	≤2.0°C (at 37°C), ≤3.0°C (other working temperatures)			
		Heating time	20~52°C≤20min			
Cooling time	20~-4°C≤60min					
Composition	Interior material	Stainless steel plate				
	Exterior material	Cold rolled steel plate with chemical proofing coating				
	Viewing window	-	Width 516×height 416 mm	-		
	Insulating material	Foamed polystyrene				
	Refrigerator	158W		300W	519W	
	Refrigerant	R134A				
	Defrost structure	Cycle operation				
	Fan blade	Crossflow fan				
	Heater	Nickel-chromium alloy heating wire, 550W		Nickel-chromium alloy heating wire, 750W	Nickel-chromium alloy heating wire, 750W×2	
	Sensors	Temperature regulator: Pt thermal resistor, for overheat protection: K-type thermocouple				
	Cable port	Internal diameter 30mm (one on the right side)	Internal diameter 50mm (one on the right side)	Internal diameter 30mm (one on the right side)		
	Temp. control method	PID control				
	Temp. setting method	Use special function menu keys and up/down keys to realize digital setting				
	Temp. display method	Achieved temp. display: Green 4-digit LED digital display Setting temp. display: Red 4-digit LED digital display				
Timer/timer resolution	1 min~99 h 59 min or 100~999 h 50 min					
Operating 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	Temperature compensation function, key lock function, power outage compensation function					
Safety device		Compressor overload relay, overheat prevention device, overcurrent leakage protection switch, self-diagnostic circuit (temperature sensor anomaly, heater disconnection, SSR short circuit, automatic overheat prevention), buzzer alarm during anomalies				
Specifications	Internal dimensions (W×D×H mm)	600×477×500		600×477×1000	1310×477×1000	
	External dimensions (W×D×H mm)	710×645×915		710×645×1630	1420×645×1630	
	Internal capacity	143L		286L	624L	
	Shelf load	15kg/layer				
	Shelf layers/shelf support spacing	13 layers/30mm		23 layers/30mm		
	Power supply (50/60Hz) rated current	AC220V 50Hz 3.5A		AC220V 50Hz 5A	AC220V 10A	
Weight	Approx. 89kg		Approx. 115kg	Approx. 230kg		
Accessories	Shelf	Stainless punching mesh plate				
	Supports	3 pcs	6 pcs	5 pcs	8 pcs	
Options	Stand	ON61C		-	-	
	Stacking fittings	OD60C		-	-	
	Others	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), server socket, central monitoring software, external alarm output terminal, timer output terminal (one-out-of-two), touchscreen controller				

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

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

Interior chamber (IN613C)



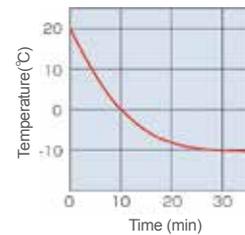
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Control panel



Temperature fall characteristic curve (IN613C)



Micro printer (optional)



Shaker can be installed (IN613CW)



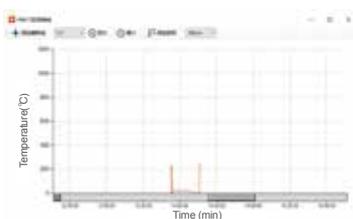
External output



Shelf · supports



Central monitoring software (optional)



Sterilizers	1
Granulation and Spray Dryers	2
Muffle Furnaces	3
Ovens	4
Incubators	5
Plasma Equipment	6
Water Purifiers	7
Baths	8
Water Circulators	9
Rotary Evaporators	10
Freeze Dryers & Cold Traps	11
Stirrers & Shakers	12
Washers	13
Analysis and Test Devices	14
Options	15