

2-Chamber Incubators | Air Jacket Type

INC822C

Natural
ConvectionForced
ConvectionAutomatic
Overheating
PreventerOverheating
PreventerSelf-diagnostic
FunctionPower Failure
Compensation
FunctionOvercurrent
Leakage Circuit
Breaker

Operating temp. range Upper section: RT+10~80°C Lower section: -10~60°C

Temp. uniformity $\leq 2.0^{\circ}\text{C}$ (at 37°C)

Internal capacity Upper section: 150L Lower section: 143L

1 product can simultaneously perform high temperature incubation and low temperature incubation.



Features

- The upper chamber is a constant temperature chamber with a constant value operation, timer function and overheat prevention device, and the lower chamber is a low temperature incubator with 6 programs setting of 10 segments to 30 segments.
- The lower chamber achieves high-precision temperature control and balanced internal temperature distribution through forced air circulation by fan blades.
- The inner glass door enhances the insulation effect. Observation of samples 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, the operation can automatically restart under the set temperature conditions through the power outage compensation function.
- Both upper and lower chambers are equipped with door locks.

Safety

- Equipped with safety functions such as refrigerator overload relay, independent overheat prevention device, overcurrent leakage protection switch, self-diagnosis circuit (temperature sensor abnormality, heater disconnection, SSR short circuit, automatic overheat prevention), buzzer alarm in case of abnormality, etc.

Specifications

Model		INC822C	
Basic structure		Lower chamber: low temperature incubator	Upper chamber: constant temperature incubator
Performance	Operating temp. range	-10~60°C	Room temp. +5~80°C
	GB standard	Temp. fluctuation	$\pm 0.5^{\circ}\text{C}$
		Temp. uniformity	$\leq 2.0^{\circ}\text{C}$ (at 37°C), $\leq 3.0^{\circ}\text{C}$ (other working temperatures)
	Heating time	20~52°C $\leq 20\text{min}$	—
	Cooling time	20~-4°C $\leq 60\text{min}$	—
System		Forced convection	Natural convection
Composition	Interior material	Stainless steel (SUS304)	
	Heater, insulation material	Nickel-chromium alloy heating wire, foamed polystyrene	Nickel-chromium alloy heating wire, glass wool
	Heater power	550W	400W
	Air blower	Crossflow fan	—
	Refrigerator, refrigerant	158W R134A	—
	Defrost mechanism	Cycle operation	—
	Cable port	Internal diameter 30 mm right side of the body	Internal diameter 30 mm right side of the body
	Exhaust vent	—	30 mm roof of the body
	Controllers	VS6 type program operation temperature controller	VS6 type constant value operation temperature controller
	Sensors	Temperature controller: Pt resistance thermometer	Temperature regulator: Pt thermal resistor, for overheat protection: K-type thermocouple
Heater control	SSR control		
Additional functions	Deviation correction, key lock, power outage compensation		
Operation functions		Program operation (30 segments×1, 15 segments×2, 10 segments×3), automatic stop operation, automatic start operation	Automatic stop operation, automatic start operation
Safety device		Refrigerator overload relay, independent overheat prevention device, overcurrent leakage protection switch, self-diagnosis circuit (temperature sensor abnormality, heater disconnection, SSR short circuit, automatic overheat prevention), buzzer alarm in case of abnormality	
Specifications	Power supply (50/60Hz) rated current	AC220V 6A	
	External dimensions (W×D×H mm)	710×656×1792	
	Internal dimensions (W×D×H mm)	600×477×500 Internal volume: 143L	600×530×500 Internal volume: 150L
	Shelf layers/shelf support spacing	13 layers/30mm	
	Shelf load	Approx. 15 kg/piece	
	Product weight	Approx. 160 kg	
Accessories	Shelf	Stainless punching mesh plate	
		3 pcs	2 pcs
	Supports	6 pcs	4 pcs
	Door key	2 pieces per chamber	
Options		Shelf (1 shelf with 2 supports), 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, and touch screen 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