Double Chamber Incubator (Natural Convection & Low Temp.)

High temp. in upper chamber, low temp. in lower chamber

INC820

(Upper chamber)

Forced convection circulation (Lower chamber)

Self-diagnosis

Overheat protecto

2003

Operating RT+5~80°C temp. range Upper chamber

4~50°C Lower chamber Temp. distribution

±1.0°C (at 37°C)

150L Upper chamber

1431 Lower chamber

High-temp. and low-temp. incubation conducted for 1 set of product simultaneously.

Operation and functions

- Upper chamber is fixed-temp. constant temp. oven with timing function and overheat protector while lower chamber is low constant temp. incubator available to set 6 programs of 30~10 steps.
- Lower chamber has cycle/manual defrost function, easy to defrost.
- Door locks are set at both upper and lower chambers.

Safety features

• Self-diagnosis circuit (abnormal temp. sensing, heater dis-connection, auto overheat prevention, SSR short circuit), overheat protector, electric leakage breaker, key lock, etc.

Cable Port

Upper chamber, I.D. ϕ 30mm (SUS)



Lower chamber, I.D. ϕ 50mm (Resin)

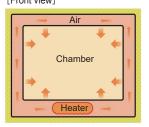




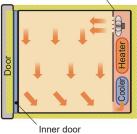
150L (Upper chamber) 143L (Lower chamber)

Method

Upper chamber [Front view]



Lower chamber (Low temp.) Circulation fan [Side view]



Stainless punching metal shelf (with bracket 2pcs) for Upper chamber



Stainless punching metal shelf (with bracket 2pcs) for Lower chamber



*Shelves and brackets are different in size for the upper and lower chamber.

Specifications

product code	211210		
Model	INC820		
System	Natural convection by air jacket	Forced convection circulation	
Basic constitution	Upper chamber: High temp. incubator	Lower chamber: Low temp. incubator	
Operating temperature range	RT+5~80°C	4~50°C	
Temp. control accuracy*1	±0.5°C(at 37°C)	±0.3°C(the refrigerator in continuous operation)	
Temp. distribution accuracy*1	±1.0°C (at 37°C)	±1.0°C (at 37°C the refrigerator in continuous operation)	
Interior material	Stainless steel		
Refrigerator, refrigerant		Air cooling 250W, R404A	
Defrost structure		Manual / cycle	
Cable hole	I.D.30mm (right side)	I.D.50mm (right side)	
Exhaust port	30mm on the top with damper, 2 pcs.		
Controller	VS3 fixes temp. operation	VS4 program operation	
Sensor	Pt100 Ω		
Operation function	Fixed temp., Quick auto stop, Auto start, Auto stop	Program (30 steps×1, 15 steps×2, 10 steps×3), Fixed temp., Quick auto stop, Auto start, Auto stop	
Safety device	Self-diagnosis circuit (Abnormal temp. sensing, Heater disconnection, Auto overheat prevention, SSR short circuit), Key lock, Overheat protector, Overcurrent ELB		
Internal dimensions	W600×D530×H500mm	W600×D477×H500mm	
External dimensions*2	W710×D656×H1792mm		
Internal capacity	150L	143L	
Shelf plate load	15kg / pc.		
Shelf rest step number / pitch	13 steps / 30mm	13 steps / 30mm	
Power supply (50/60Hz) rated current	AC220V 7A single phase with step-down transformer		
Weight	Approx. 160kg		
Shelf plate	Stainless punching metal		
Shelf / Shelf brackets	2 pcs. / 4 pcs.	3 pcs. / 6 pcs.	
Door key	2 pcs / each chamber		

The length of the power cord is about 2m outside the unit.

Ontional items

Optional items				
No.	Description		Product Code	
1	Stainless punching metal shelf (with bracket 2 pcs.) (loading up to 15kg/shelf)	for Upper chamber	212266	
2	Stainless punching metal shelf (with bracket 2 pcs.) (loading up to 15kg/shelf)	for Lower chamber	211221	
3	Stainless wire shelf (with bracket 2 pcs.) (loading up to 20 kg/shelf)	for Upper chamber	213464	
4	Stainless wire shelf (with bracket 2 pcs.) (loading up to 20 kg/shelf)	for Lower chamber	211898	
(5)	Drain water tray (4L, SUS) Mounted under the main body		213466	
6	*External communication terminal (RS485) /chamber		281125	
7	7) *External communication adapter, RS485-RS232C (conversion) /chamber		281126	
8 *Temperature output terminal (4-20mA) ODK12 /chamber			281123	
Temperature output terminar (4 Zenizy) Obre 12 Fernander			201120	

^{*} Please specify when ordering main unit

^{*1} Conditions: temperature and humidity: 23°C±5°C, 65%RH±20% (no load) *2 Do not include protrusions