

# Double Chamber Incubator (Low temp.)

**IQ822**

Operating temp. range -10~50°C

Temp. distribution accuracy  $\pm 1.0^{\circ}\text{C}$  (at 37°C)

Internal capacity 143L×2

Self-diagnosis

Forced convection circulation

Cable hole

Overheat protector

Overcurrent ELB

## Double chamber low temperature incubator with independent program.

- Control panel on the door makes operation easier.
- Six programs can be registered from 30 steps to 10 steps according to specific tests including incubation-storage process.
- Simply pressing the special button allows setting of manual defrosting operation in addition to cycle defrosting operation (fixed).
- Large cable ports of I.D.50 mm on each chamber.
- Comprehensive safety functions including self diagnostic, key lock, electric leakage breaker with over current protection, overheat preventive device.
- Door keys included.



143L×2 chamber  
IQ822

### Specifications

Product code	211309
<b>Model</b>	<b>IQ822</b>
System	Forced air convection
Operating temp. range	-10 to +50°C (for both upper and lower stage)
Temp. adjustment range	$\pm 0.3^{\circ}\text{C}$ (During continuous operation of freezer, for both upper and lower stage)
Temp. distribution accuracy*1	$\pm 1.0^{\circ}\text{C}$ (Continuous operation of freezer at 37°C, for both upper and lower stage)
Time to attain max. temp.*1	20 to 50°C Approx. 25 min
Time to attain min. temp.*1	20 to -10°C Approx. 45 min
Interior material	Stainless steel plate, 2-chamber system
Exterior material	Chrome free electronic galvanized plated steel plate, Chemical proof baking finish R404A
Freezer cooling medium	R404A
Defrosting mechanism	Manual defrosting (Manual ON / Auto OFF), Cycle defrost
Sensor	Platinum resistance temperature detector: Pt100Ω (Temperature controller), K-thermocouple (Overheat preventive device)
Cable port	I.D. 50 mm (right side, upper / lower stages)
Temp. control system	PID control with a micro computer
Temp. setting system	Digital setting system the dedicated select keys
Temperature display	Set temperature display: 4-digit green LED digital display Temperature display: 4-digit red LED digital display
Timer	1 to 99 hrs 59 min or 100 to 999 hrs 50 min (Timer wait function)
Operation functions	Fixed value, Program (up to 30 steps x 3 patterns), Auto start, Auto stop, Quick auto stop
Additional functions	Calibration offset, Power outage compensation
Safety device	Self diagnostic (Memory error, Temp. Sensor error, Heater disconnection, SSR short-circuit, Automatic overheat prevention, etc.), Key lock, Over current ELB, Overheat preventive device
Internal dimensions	W600×D477×H500mm
Internal capacity	143L×2 chambers
External dimensions*2	W710×D645×H1,675mm
Shelf load capacity	15 kg / unit
Shelf rest step number / pitch	13 stages×2 chambers / 30 mm
Power supply (50/60z)	AC220V Single phase with step-down transformer
Weight	Approx.165 kg
Accessories	Shelf / shelf support Stainless steel punching metal 3 stages×2 chambers = 6 / 6×2 chambers = 12 Door keys 2 keys×2 sets

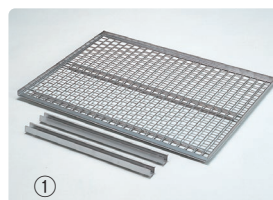
The length of the power cord is about 2m outside the unit.

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

### Optional items

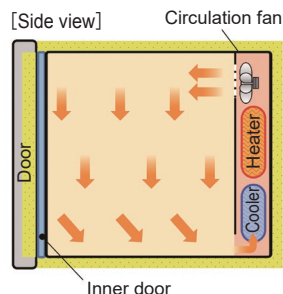
No.	Description	Product Code
①	Stainless punching metal shelf (with bracket 2 pcs., loading up to 15kg/shelf)	211221
②	Stainless wire shelf (with bracket 2 pcs., loading up to 20 kg/shelf)	211898
③	Drain water tray (4L, SUS) Mounted under the main body	213466
④	*Temperature output terminal (4-20mA) / stage	281179
⑤	*Time-up output terminal*3	281180
⑥	*External communication terminal (RS485)*3	281181
⑦	*External communication adapter, RS485-RS232C (conversion)	281182
⑧	*External alarm terminal	281183

\* Please specify when ordering main unit \*3 Please choose one or the other

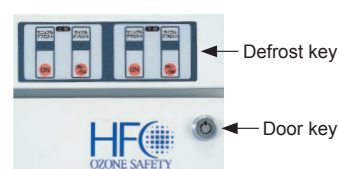


Stainless punching metal shelf  
(with bracket 2pcs)

### Method



### Defrost key and Door key

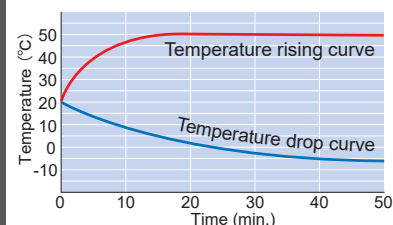


Cycle defrosting operation (fixed) and manual defrosting operation can be performed with the dedicated keys. The door is equipped with a key for security.

### Interior / Cable port



### Temp. rise / drop characteristic curves



### Dimensions (mm)

