



Double Chamber low temperature incubator with independent program.

Operating temp. range
-10 to +50 deg.C
Temp. distribution accuracy
±1.0deg.C (at 37deg.C)
Internal capacity
143L x 2 chambers

- 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.
- Simple pressing of the special button allows setting of the 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 diagnostics function, key lock function, electric leakage breaker with over current protection, overheat preventive device.
- Door keys included.

■ Specifications

Product code	211309
Model	IQ822
System	Forced blower convection
Performance	
Operating temp. range	-10 to +50deg.C (for both upper and lower stage)
Temp. adjustment range	±0.3deg.C (during continuous operation of freezer, for both upper and lower stage)
Temp. distribution accuracy	±1.0deg.C (continuous operation of freezer at 37deg.C, for both upper and lower stage)
Time to attain the max. temp.	20 to 50deg.C Approx. 25 min
Time to attain the min. temp.	20 to -10deg.C Approx. 45 min
Configuration	
Interior	Stainless steel plate, 2-chamber system
Exterior	Chrome free electronic galvanized plated steel plate Chemical proof baking finish
Heat insulator	Styrene foam (non-freon)
Freezer	Air cooled fully closed compressor: 250W x 2
Freezer cooling medium	R404A
Defrosting mechanism	Manual defrosting (manual ON/auto OFF), cyclic defrosting
Heater	Iron-chrome wire heater: 550W x 2
Sensor	Platinum resistance temperature detector: Pt100Ω(temperature controller), K-thermocouple (overheat preventive device)
Cable port	I.D.: 50 mm (at the right side, upper/lower stages)
Controller	
Temp. control system	PID control with a micro computer
Temp. setting system	Digital setting system with the dedicated select keys and /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 operation, program operation (up to 30 steps x 3 patterns), auto start, auto stop, quick auto stop
Additional functions	Calibration offset function, power outage compensation function
Heater control circuit	SSR drive system
Safety unit	Self diagnostic function (memory error, temp. sensor error, heater disconnection, SSR short-circuit, automatic overheat prevention function, etc.), key lock, over current ELB, overheat preventive device
Standards	
Internal chamber size	W600 x D477 x H500 mm 2 chambers
External size	W710 x D645 x H1,675 mm
Internal volume	143L x 2 chambers
Withstand load of shelf	15 kg/unit
No. of internal shelf stages/shelf support pitch	13 stages x 2 chambers / 30 mm
Power supply (50/60) Hz rated current	AC100V 20A (30A)
Weight	Approx.165 kg
Accessories	
Shelf/shelf support	Stainless steel punched metal 3 stages x 2 chambers = 6 / 6 x 2 chambers = 12
Door keys	2 keys x 2 sets

■ Control panel



■ Internal chamber



■ Cable ports (standard)

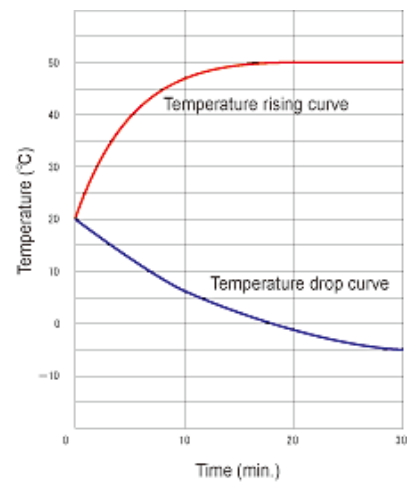


■ Defrost key and door key

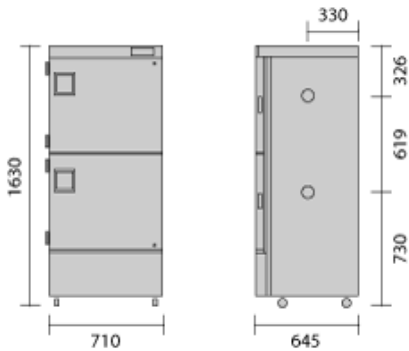


Cycle defrosting operation (fixed) and manual defrosting operation can be performed with the dedicated keys. The door is equipped with a key for security.

■ Temperature rising / drop characteristic curves



■ Dimensional drawing (mm)



■ Shelf / Shelf support



■ Optional items

Remark	Description	Model No.	Product Code
	Shelf (with support)	IQ822	211221
•	Temperature Output Terminal (4-20mA)	IQ822	281179
•	Time-up Output Terminal	IQ822	281180
•	External communication terminal, RS485 (To choose either time-up output terminal or external communication terminal)	IQ822	281181
•	External Communication Adapter (RS485/ RS232C exchanging adapter)	IQ822	281182
•	External Alarm Terminal (to choose either times-up output terminal or external communication terminal)	IQ822	281183

Note:

The item marked " • " in the column of "Remark" shall be ordered together with the main unit.