

# Low Temperature Incubator (Programmable, Air Jacket)

Air jacket

## IL612C/812C

Operating temp. range 0~50°C

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

Internal capacity 159L IL612C 300L IL812C

**Multi-function refrigerant incubator by air jacket heat conduction.**

### Operation and functions

- Environmental friendly refrigerant R134a.
- High precision temp. control and uniform temp. distribution accuracy through air jacket heat conduction and PID control.
- Controller contains independent overheat protector circuit, based on fixed temp., auto start and auto stop operation, auxiliary with defrost, RS485 communication, temp. output terminal (4~20mA), output terminal for alarm (IL612C).
- Equipped with electronic independent overheat protector, configured with CR5 controller (IL812C) based on the max. 99 steps program, fixed temp., auto start and auto stop operation, auxiliary with RS485 communication, temp. output terminal (1~5V), output terminal for alarm.
- Optional communication cable allows remote control of the control panel.

### Safety features

- Self-diagnosis, refrigerator heat overload protector, refrigerator delay start protection, overheat protector, electric leakage breaker, key lock, etc.



(Stand optional)

### Specifications

Model	IL612C	IL812C
System	Conduct, radiate	
Operating temperature range	0~50°C	
Temp. control accuracy	Refrigerator in continuous operation $\pm 0.3^{\circ}\text{C}$ Refrigerator ON/OFF operation $\pm 1.0^{\circ}\text{C}$ at 37°C	
Temp. distribution accuracy	$\pm 1.0^{\circ}\text{C}$ (at 37°C the refrigerator in continuous operation)	
Internal door	Toughened glass 5mm	
Insulating material	Polyurethane foaming	
Refrigerator	300W R134a	
Defrost structure	Manual / cycle	
Heater	Nichrome wire heater, 800W	Nichrome wire heater, 850W
Sensor	Double sense line, platinum temp. resistance PT100 (for temp. control)+ K thermocouple (for overheat prevention)	
Overheat protector	Electronic integrated controlling	
Door lock	1 set	
Cable hole	I.D.50mm (On the right side of unit body)	
Temp. controller	VS3P PID control	CR5 PID control
Operation function	Fixed temp., Timing	Fixed temp., Timing, Max. 99 steps program
Safety device	Self-diagnosis, Overcurrent ELB, Refrigerator overload relay, Refrigerator delay timing protection, Overheat protector (IL612C), Independent overheat protector (IL812C)	
Internal dimensions (W×D×Hmm)	600×530×500	600×530×1000
External dimensions (W×D×Hmm)	710×645×1008	710×645×1600
Internal capacity	159L	300L
Shelf plate load	15kg / pc.	
Shelf rest step number / pitch	12 steps / 30mm	24 steps / 30mm
Power supply (50/60Hz)	AC220 7A	AC220 8A
Weight	Approx. 90kg	Approx. 150kg
Shelf plate	Stainless punching metal	
Shelf / Shelf brackets	3 pcs. / 6 pcs.	5 pcs. / 10 pcs.
Door key	2 sets	
Optional	Stand	ON61C
	Others	Shelf plate (1 plate with 2 rests), Cable hole (30/50mm), Recorder, Indicator lamp (Stand-by / Running / Malfunction), Observation window, External communication (RS485), Temp. output terminal (4~20mA), Output terminal for alarm device, Time up output terminal

### Control Panel



IL612C



IL812C

### Interior (IL612C)

