

Incubator (Natural Convection, Air Jacket)

Programmable

IS401/601/801/901

Operating temp. range RT+5°C~80°C

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

Internal capacity 97L IS401 159L IS601 318L IS801 567L IS901

Natural convection incubators equipped with various functions.

- Air-jacket method makes it possible to obtain uniform temperature distribution.
- Fixed temperature, Quick auto stop, Auto stop, Auto start, Program functions are available.
- Program function: 3 segments, 30 steps.
- Samples can be observed through the inner door.
- Safety device includes self-diagnosis, key lock and earth leakage breaker.
- Various optional system upgrade such as external communication terminal and time up output terminal.
- Models IS401/601 stackable.
- Operation before power failure can be resumed.



97L
IS401+ON61 (Option)

159L
IS601+ON61 (Option)

Specifications

Product code		212551	212552	212553	212554
Model		IS401	IS601	IS801	IS901
System		Natural convection by air jacket			
Operating temperature range		RT+5°C~+80°C			
Temp. control accuracy*1		JTM K05 ±0.2°C (at 37°C)			
Temp. fluctuation*1		JIS 0.8°C (at 37°C)			
Temp. distribution accuracy*1		JTM K05 ±1.0°C (at 37°C)			
Temp. gradient*1		JIS 2.0°C (at 37°C)			
Time required to reach 60°C*1		Approx. 70min		Approx. 90min	
Interior material		Stainless steel			
Exterior material		Cold rolled steel plate with melamine resin baking finish			
Heat insulating material		Glass wool			
Heater		Iron-chrome wire heater			
		0.3kW	0.36kW	0.73kW	1.2kW
Exhaust port		30 mm I.D. ×2 pcs (on the top)		30 mm I.D. ×2 pcs (side)	
Inner door		5mm thickness reinforced glass			
Temp. controller		PID control by microprocessor			
Temp. setting method		Digital setting with key			
Temp display method		Digital display by LED			
Timer		1 min. to 99 hrs. 59 min. and 100 hrs. to 999.5 hrs.			
Min. division		1 min. or 10 min.			
Operation function		Fixed temperature operation, Quick auto-stop, Auto-stop, Auto-start operation Program operation 3 patterns, 30 steps, Repeat function.			
Additional functions		Calibration offset, Key lock, Power failure compensation			
Temp. sensor		Pt100 / K thermocouple			
Safety device		Self diagnosis functions (Temp. sensor abnormal, Heater disconnection, SSR short circuit, Main relay failure, Automatic overheat prevention), Key lock function, Over current breaker, Resume function, Door key, Adjuster (IS801/901)			
Internal dimensions		W450×D480×H450mm	W600×D530×H500mm	W600×D530×H1,000mm	1,070×530×1,000
External dimensions*2		W560×D606×H820mm	W710×D656×H870mm	W710×D655×H1,611mm	1,180×655×1,619
Internal capacity		97L	159L	318L	567L
Shelf plate load		Approx. 15 kg/piece			
Shelf rest step number		11 steps	13 steps	29 steps	29 steps
Shelf rest pitch		30 mm			
Power source (50/60Hz)		AC115V / AC220V Single phase			
Weight		Approx. 55 kg	Approx. 65 kg	Approx. 105 kg	Approx. 166 kg
Accessories	Shelf plate/ bracket	Stainless steel punched metal, 2 pcs./ 4 pcs.	Stainless steel punched metal, 3 pcs./ 6 pcs.	Stainless steel punched metal, 5 pcs./10 pcs.	Stainless steel punched metal, 10 pcs./ 20 pcs.

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

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

Overcurrent
ELB



318L
IS801

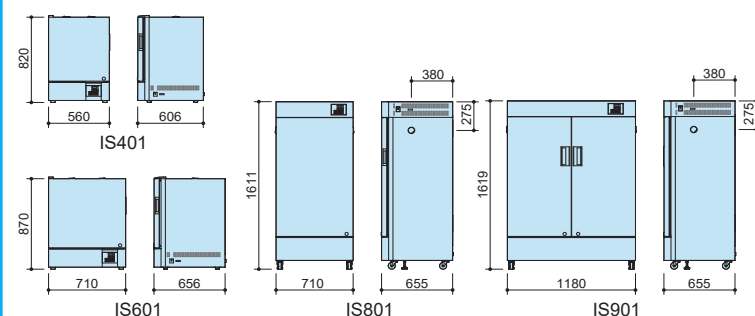
567L
IS901

Optional items

No.	Description		Model	Product code
①	Stand	for IS401/IS601	ON61	211856
②	Stacking support	for IS401	OD40	212822
③	Stacking support	for IS601	OD60	212823
④	Seismic mat	for IS401/IS601	-	296902
⑤	Stainless punching metal shelf (with bracket 2pcs) (Loading up to 15kg/shelf)	for IS401	-	212246
⑥	Stainless punching metal shelf (with bracket 2pcs) (Loading up to 15kg/shelf)	for IS601/IS801	-	212266
⑦	Stainless punching metal shelf (with bracket 2pcs) (Loading up to 15kg/shelf)	for IS901	-	212371
⑧	Stainless wire shelf (with bracket 2pcs)	for IS601/801	OIL22	213464
⑨	*Cable port, 25mm dia	for All models	-	281121
⑩	*Cable port, 50mm dia	for All models	-	281122
⑪	*External communication terminal (RS485)	for All models	-	212575
⑫	*External Communication Adapter (Changeable to RS232C)	for All models	-	281388
⑬	*External alarm terminal	for IS401	-	212578
⑭	*External alarm terminal	for IS601	-	212961
⑮	*External alarm terminal	for IS801	-	212964
⑯	*External alarm terminal	for IS901	-	212967
⑰	*Time-up output terminal	for IS401	-	212579
⑱	*Time-up output terminal	for IS601	-	212962
⑲	*Time-up output terminal	for IS801	-	212965
⑳	*Time-up output terminal	for IS901	-	212968
㉑	*Temperature output terminal	for IS401	-	212588
㉒	*Temperature output terminal	for IS601	-	212963
㉓	*Temperature output terminal	for IS801	-	212966
㉔	*Temperature output terminal	for IS901	-	212969

* Please specify when ordering main unit.

Dimensions (mm)

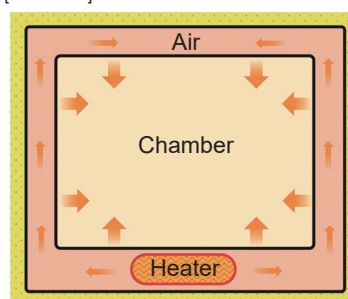


Control Panel



Method

[Front view]



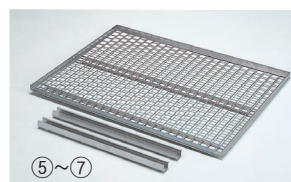
Interior (IS901)



Exhaust port (IS401/601)



* IS801/901 are located on the side.



Stainless punching metal shelf
(with bracket 2pcs)



Seismic mat