



IS401/601

Incubators of natural convection by air-jacket, equipped with various functions.

Model			
401	601	801	901
Operating Temperature Range			
Room Temp. +5deg.C to 80 deg.C			
Temp. Distribution Accuracy			
±1.0 deg.C (at 37 deg.C)			
Internal Capacity			
97L	159L	318L	567L

- Fix temperature operation, Quick auto stop, Auto stop, Auto start operation are available.
- 3 patterns, 30 steps programming are available.
- The air-jacket method makes it possible to obtain uniform temperature distribution.
- Samples can be observed through the inner door.
- Equipped with self-diagnosis function, a key-lock function and an over current breaker.
- Possible to place the models IS401/601 in piles, one over the other.
- Various expanded function due to external communication function, temperature output terminal.
- The operation before power failure can be resumed.

■ Specifications

Model	IS401	IS601	IS801	IS901
Performance				
Circulation method	Natural convection by air jacket			
Operating temperature range	Room temperature +5 to 80deg.C			
Temp. control accuracy	±0.2deg.C (at 37deg.C)			
Temp. fluctuation	±0.4deg.C (at 37deg.C)			
Temp. distribution accuracy	±1.0deg.C (at 37deg.C)			
Temp. gradient	2degC (at 37deg.C)			
Time required to reach 60 deg.C	Approx. 70 min		Approx. 90 min	
Components				
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			
Controller				
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 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, patterns repeat function.			
Additional functions	Calibration offset function, key lock function, power failure compensation function			
Heater circuit control	SSR drive			
Temp. sensor	Pt100 / K thermocouple			
Safety Device				
Safety countermeasures	Self diagnosis functions (temp. sensor abnormal, heater disconnection, triac short circuit, automatic overheat prevention), Key lock function, Over current breaker, Resume function.			
Standard				
Internal dimensions	450×480×450	600×530×500	600×530×1,000	1,070×530×1,000
External dimensions	560×606×820	710×656×870	710×655×1,611	1,180×655×1,619
Internal capacity	97L	159L	318L	567L
Shelf plate with standard 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	AC100V 3.2 (10A)	AC100V 3.8A(10A)	AC100V 7.5A (10A)	AC100V 12.2A (15A)
Weight	Approx. 55 kg	Approx. 65 kg	Approx. 105kg	Approx. 166 kg
Accessories				
Shelf plate	Stainless steel, 2 pcs.	Stainless steel, 3 pcs.	Stainless steel, 5 pcs.	Stainless steel, 10 pcs.
Shelf bracket	4 pcs.	6 pcs.	10 pcs.	20 pcs.

■ IS801/901



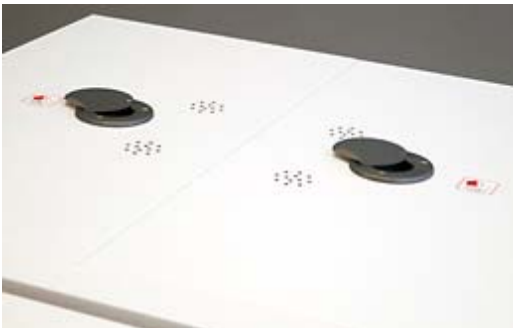
■ Control panel



■ Interior



■ Exhaust port



■ Shelf/Shelf support



■ Optional items

Remark	Description	Model No.	Product Code
○	Stand ON61 (for 401/601)	IS Series	211856
	Stacking Support OD40 (for 401)	IS Series	212822
	Stacking Support OD60 (for 601)	IS Series	212823
	Anti-vibration material with support EPM-08	IS Series	851352
	Anti-vibration material without support EPM-05	IS Series	851351
	Shelf (with support 2pcs.) for 401	IS Series	212246
	Shelf (with support 2pcs.) for 601/801	IS Series	212266
	Shelf (with support 2pcs.) for 901	IS Series	212371
	25m dia Cable Port	IS Series	281121
	30m dia Cable Port	IS Series	281122
	External communication terminal (RS845)	IS Series	212575
	External communication adapter (RC232C exchange)	IS Series	281388
	External alarm terminal (for 401)	IS Series	212578
	External alarm terminal (for 601)	IS Series	212961
	External alarm terminal (for 801)	IS Series	212964
	External alarm terminal (for 901)	IS Series	212967
	Time up output terminal (for 401)	IS Series	212579
	Time up output terminal (for 601)	IS Series	212962
	Time up output terminal (for 801)	IS Series	212965
	Time up output terminal (for 901)	IS Series	212968
	Temp. output terminal (for 401)	IS Series	212588
	Temp. output terminal (for 601)	IS Series	212963
	Temp. output terminal (for 801)	IS Series	212966
	Temp. output terminal (for 901)	IS Series	212969

Note:

The transportation cost will not be required if the order is together with main unit except the item marked "○".

In case you order the item marked "○" together with the main unit, please ask Yamato to obtain the correct transportation cost.

■ Dimension drawing

